weizenbaum
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Annual Report

About the Weizenbaum Institute

The Weizenbaum Institute for the Networked Society – The German Internet Institute is a joint project funded by the Federal Ministry of Education and Research (BMBF). The consortium is composed of the four Berlin universities – Freie Universität Berlin (FU Berlin), Humboldt-Universität zu Berlin (HU Berlin), Technische Universität Berlin (TU Berlin), University of the Arts Berlin (UdK Berlin) – and the University of Potsdam (Uni Potsdam) as well as the Fraunhofer Institute for Open Communication Systems (FOKUS) and the WZB Berlin Social Science Center as coordinator.

The Weizenbaum Institute conducts interdisciplinary and basic research on the transformation of society through digitalisation and develops options for shaping politics, business and civil society. The aim is to better understand the dynamics, mechanisms and implications of digitalisation. To this end, the Weizenbaum Institute investigates the ethical, legal, economic and political aspects of the digital transformation. This creates an empirical basis for responsibly shaping digitalisation. In order to develop options for politics, business and society, the Weizenbaum Institute links interdisciplinary problem-oriented basic research with explorations of concrete solutions and dialogue with society.

Contents

Editorial

"A society that embraces technology needs a great inner strength to avoid becoming too greedy and distracted from its goals." At a time when debates about the role of digitalisation in work, health and democracy are determining our everyday lives, this statement by Joseph Weizenbaum, the man who gave our institute its name, is more relevant than ever. We see how these debates are often dominated by feelings and opinions, how echo chambers and filter bubbles crowd out insights, how fashions and "social" tools make living together more difficult, even though they actually promise the opposite. At the Weizenbaum Institute for the Networked Society – The German Internet Institute (in the following "Weizenbaum Institute") we have dedicated ourselves to the task of scientifically investigating the societal implications of today's technological developments. In doing so, we do not play the role of admonishing critics, but of scientists equipped with the necessary expertise and time to get to the bottom of things.

We ask about the truth behind the magic word artificial intelligence (AI) and investigate how it is used pragmatically in specific working environments. And we see that abstract promises made by futurologists or market research institutes cannot be reconciled with the reality of German manufacturing companies.

We ask about the innovative business models that may emerge from the digitalisation of education and how new data-based learning formats can enable the individualisation of teaching and learning paths. The radical upheavals in the education sector are already evident today. Tech companies such as Google, Amazon and Netflix are forcing their way onto the market with new digital educational products, inevitably triggering unequal competition with the traditional educational providers who should actually be driving digitalisation forward.

We ask how self-determination in data use can be strengthened in a networked society. The Privacy Icons project is developing a toolbox for visually communicating information that could supplement the complex data protection statements of online platforms. The symbol-based system it is developing can increase user awareness by highlighting legal aspects of data protection with potentially negative consequences.

These are just a few of the many questions that our interdisciplinary research groups are currently working on. As researchers of the Weizenbaum Institute, we see our task not only in analysing the societal manifestations of digital change, but also in actively seeking dialogue with society. Our projects thus have an impact on business, politics and civil society, but also on academic teaching and research itself. In this annual report, we present the issues and questions that engage our 20 research groups. While the 2017/2018 report was still dominated by the establishment of teams and structures, this report is primarily devoted to the institute's academic work.

We hope you enjoy reading it!

Prof. Dr. Herbert Zech,
executive director HU
Berlin

Prof. Dr. Sascha Friesike,
Deputy executive director UdK Berlin

Prof. Dr. Barbara Pfetsch,
Deputy executive director FU Berlin

Dr. Karin-Irene Eiermann,
head of the WZB office

I.

Review of 2018/19

For the Weizenbaum Institute, the period from September 2018 to September 2019 was marked by the further development of the institute, but also by the zeal with which our researchers worked on interdisciplinary topics in the individual research groups. They formulated research questions, developed research designs, carried out studies, generated findings and published results that help to better understand the social dynamics of digital transformation processes and that can shape change in a self-determined way. In this review of the year, we report on the institutional developments, on formats for our promotion of young researchers, on national and international knowledge exchange, and on knowledge transfer and dialogue with society, politics and business.

1.1   Institutional development

Mission statement and guidelines

What are our goals and how do we want to pursue them? How does our understanding of ourselves shape our research? What makes us strong? How do we want to work together? These were the typical questions that we dealt with at the end of 2018, when we had to define a mission statement and principles for scientific work and interaction in joint sessions. The mission statement that emerged from this process is closely oriented towards the man who gave our institute its name, the German-American computer science pioneer Joseph Weizenbaum (1923–2008), who already in the last century called for a critical approach to information technology with a concern for the welfare of society. Following his example, we researchers at the Weizenbaum Institute want to critically question the digital transformation through excellent research. A key issue for us is individual and collective self-determination, which must be preserved in an increasingly networked society.

Our mission statement defines the values and the goals of our research. It describes how we understand our social mission and what principles we feel committed to in our scientific work. The mission statement serves as orientation for the further development of the institute and for the further development of the research agenda.

1. Mission

The Weizenbaum Institute is a scientifically independent, publicly financed, basic-research-oriented, interdisciplinary research institute that critically questions digital change and generates research results in a transdisciplinary way. The consortium consists of five universities (Freie Universität Berlin, Humboldt-Universität zu Berlin, Technische Universität Berlin, Berlin University of the Arts, and the University of Potsdam) and two non-university research institutes (the Fraunhofer Institute for Open Communication Systems and WZB Berlin Social Science Center).

The work of the Weizenbaum Institute contributes to research on individual and social self-determination under the conditions of digitalisation, developing it further and making it possible in the long term.

To scientifically guide the digital transformation, the Weizenbaum Institute enters into an active national and international dialogue with scientists and citizens as well as actors from politics, civil society and business.

Our aim is to work together in an appreciative, respectful and inclusive manner, to conduct cooperative, independent and responsible research and to communicate in an understandable way.

2. Working principles

INTERDISCIPLINARITY
The research agenda combines research approaches and perspectives from economics, social and political science, law, informatics and design.
 Societal digitalisation processes are researched holistically in interdisciplinary cooperation.

OPENNESS
The Weizenbaum Institute stands for open and transparent research. We rely on open data, open source, open access and open science approaches and develop them further.

PARTICIPATION
We further develop the research agenda, implement projects and transfer knowledge with the participatory involvement of citizens and other relevant stakeholder groups, for example, in open labs, public events and citizen science formats.

LONG-TERM ORIENTATION
The Weizenbaum Institute is committed to conducting well-founded basic research that offers long-term knowledge gains. The Weizenbaum Institute generates science that guides and supports change processes in society.

FOCUS ON SUSTAINABILITY
The publicly funded Weizenbaum Institute is committed to the common good consistent with the UN sustainability goals.
We make decisions in research, administration and IT infrastructure in the sense of sustainable development.
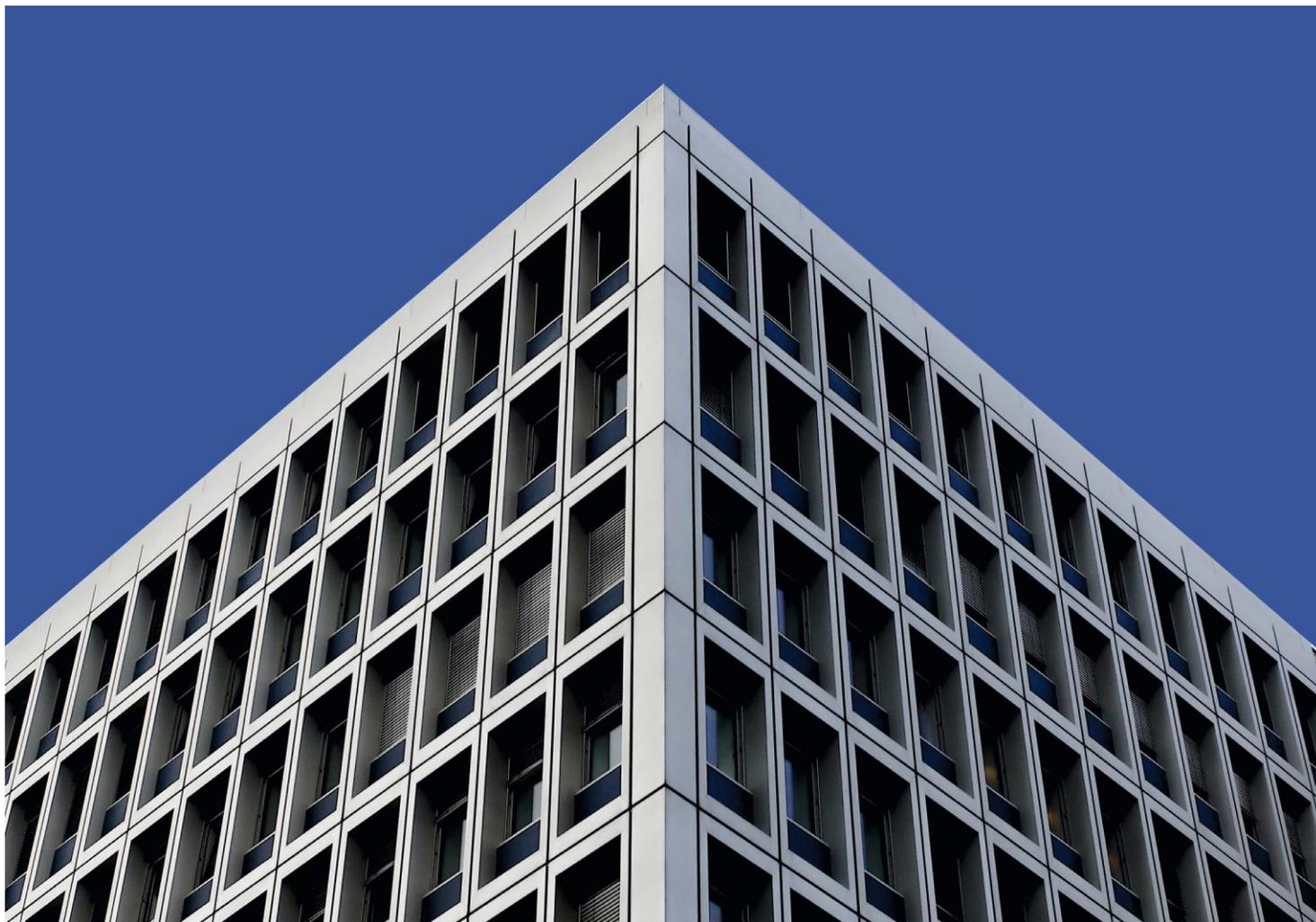
In addition to the mission statement, guidelines for the research groups were developed and adopted. These serve as a helping hand for the principal investigators (PIs), postdoctoral students and doctoral candidates and are based on internationally established standards for good scientific practice. They define the high quality requirements for scientific work at the Weizenbaum Institute and specify the measures and practices used to achieve the institute's overarching goals
– excellent research, dialogue and transfer, promotion of young researchers and interdisciplinarity.

BOARD OF DIRECTORS

With the transition from the founding phase to the establishment phase, the Board of Directors of the Weizenbaum Institute has also grown. The founding Board of Directors consisting of Prof. Dr. Martin Emmer (FU Berlin), Prof. Dr.-Ing. Ina Schieferdecker (TU Berlin/Fraunhofer FOKUS) and Prof. Dr. Axel Metzger (HU Berlin) was ceremoniously discharged on April 3, 2019 and honoured for its extraordinary achievements in establishing the institute. Particular highlights from the founding period under their leadership include the drawing up of the cooperation agreement and the rules of procedure, the staffing of the twenty interdisciplinary research groups, the move into the premises at 32 Hardenbergstraße in Berlin, the establishment of a reliable partner network and the preparation of the first scientific results, which also attracted international attention.

On the same day, the new seven-member scientific directorate of the Weizenbaum Institute began its work. All partners of the joint project are now represented on the board by a director. The HU Berlin sent Prof. Dr. Herbert Zech, who holds the position of executive director. The two non-university partners Fraunhofer FOKUS and WZB send Prof. Dr.-Ing. Ina Schieferdecker and PD Dr. Martin Krzywdzinski. The UdK Berlin appointed Prof. Dr. Sascha Friesike to the board. The appointment procedures for the professors at the FU Berlin, TU Berlin and the University of Potsdam have not yet been completed. Until the appointment of the new professors, Prof. Dr. Manfred Hauswirth (TU Berlin), Prof. Dr. Hanna Krasnova (University of Potsdam) and Prof. Dr. Barbara Pfetsch (FU Berlin) were appointed as directors of the board. The directors are also principal investigators (PIs) at the Weizenbaum Institute and responsible for the scientific work of the research groups.

PROF.   DR.   HERBERT   ZECH,
EXECUTIVE DIRECTOR

Herbert Zech is a legal scholar and biologist and has taught at the University of Basel since 2012, first as an associate professor of civil law with a focus on life sciences law, and since 2015 as a professor of life sciences law and intellectual property law. From 2014 to 2018, he was dean of research. His research focuses on intellectual property law in the field of new technologies as well as on the legal problems of big data and AI. In April 2019, Zech followed the call of the HU Berlin to the chair of civil, technical and IT law. This professorship is connected with the position of a director at the Weizenbaum Institute.

PROF. DR. SASCHA FRIESIKE,
DEPUTY EXECUTIVE DIRECTOR

Sascha Friesike is an industrial engineer. From 2014 to 2016, he was professor of business administration at the University of Würzburg and from 2017 to 2019 he was assistant professor of digital innovation at the Vrije Universiteit Amsterdam. In Berlin, he helped to establish the Alexander von Humboldt Institute for Internet and Society, where he was head of research until 2016. He followed the call of the UdK Berlin to take up the chair of digital innovation design, a professorship associated with the position of a director at the Weizenbaum Institute. In his research activities, Friesike is concerned with the question of what role the digital plays in the emergence of the new.

PROF. DR. BARBARA PFETSCH,
DEPUTY EXECUTIVE DIRECTOR

Barbara Pfetsch is professor of communication science at the FU Berlin and heads the Division of Communication Theory and Media Effects Research. Previously, she was professor of media policy at the University of Hohenheim. Her research concentrates on internationally comparative studies of the effects of digitalisation on political communication and the public, as well as on the use of online media and social networks. Pfetsch is involved in many scientific committees: among others she is a member of the Digitalisation and Democracy working group at the German National Academy of Sciences, Leopoldina.

PROF. DR. MANFRED
HAUSWIRTH, DIRECTOR

Manfred Hauswirth has been executive director of the Fraunhofer Institute for Open Communication Systems FOKUS since 2014 and holds the chair for open distributed systems at TU Berlin. Prior to that, he was deputy director of the Digital Enterprise Research Institute (DERI) in Galway, Ireland and PI at the Insight Centre for Data Analytics (both funded by Science Foundation Ireland). He researches distributed information systems, the internet of things, stream data processing and linked data, semantics and artificial intelligence. Hauswirth is active in many scientific and political bodies that seek to shape digitalisation, including the "Web Science Trust Network of Laboratories" (WSTNet).

PROF. DR. HANNA KRASNOVA,
DIRECTOR

Hanna Krasnova has been professor of information systems and digital society at the University of Potsdam since 2015 and teaches and researches social media and data science. Previously, she was assistant professor at the Institute for Information Systems at the Universität Bern in Switzerland. Her research deals with the question of the social, personal or entrepreneurial value of social media applications. Her research on the emotions of Facebook users, especially on envy of so-called Facebook friends, has received a lot of attention in the research community and the media. Krasnova is a member of the international Association for Information Systems.

PD DR. MARTIN KRZYWDZINSKI,
DIRECTOR

Martin Krzywdzinski heads the research group "Globalisation, Work and Production" at the WZB, as well as a topic area of the interdisciplinary doctoral college "Good Work. Approaches to shaping tomorrow's world of work". He conducts research on the transformation of work in the context of globalisation and digitalisation and has conducted a number of international research projects, including on crowdworkers and industry 4.0. Krzywdzinski is a board member of the Sociology of Work and Industry section in the German Society for Sociology and a member of the Research Advisory Board of the Work of the Future working group at the Massachusetts Institute of Technology.

PROF. DR.-ING. INA
SCHIEFERDECKER, DIRECTOR

Ina Schieferdecker is one of the three founding directors of the Weizenbaum Institute. Since 2015, she has been director of the Fraunhofer Institute for Open Communication Systems FOKUS and since 2016 she has been professor of quality engineering of open distributed systems at TU Berlin. Her research focuses on open urban platforms, critical infrastructures, software engineering and the conformity, interoperability, security and certification of information and communication technology systems. Schieferdecker is a member of many committees, including the German Advisory Council on Global Change (WBGU).

1.2 Promotion of young talent

With initiatives to develop young researchers at the Weizenbaum Institute, we want to reach the doctoral candidates and student employees as well as the post-doctoral fellows who lead the research groups. Actions to promote young researchers operate at three levels: within the research groups, at the level of the collaborative partners and at the overarching consortium level.

At the institute, doctoral candidates are supervised by the PIs and post-doctoral fellows in their dissertation projects and are actively involved in research and project work. As employees of the institute's consortium partners, post-doctoral fellows and student assistants benefit from the measures taken there to promote young talent. At the level of the consortium, overarching programs are offered in line with the Weizenbaum Institute's mission statement. One of our declared goals is the promotion of interdisciplinary research on digitalisation. The aim is to train young researchers to go beyond traditional disciplinary boundaries and to prepare them for future career paths within and outside academia.

 The central offerings of the Weizenbaum Institute encompass the areas of academic skills, career development and science insights as well as theory seminars and method workshops on digitalisation research.

At the Weizenbaum Institute, young scientists are trained
beyond traditional disciplinary boundaries.

ACADEMIC SKILLS

This area is aimed at teaching academic skills such as scientific writing and time and project management. For example, at the annual research retreats for Weizenbaum doctoral candidates, our junior researchers have the opportunity to devote themselves to writing dissertation chapters, essays and lecture manuscripts while availing of methodological supervision. In 2019, a retreat for research group leaders also took place for the first time. Under the guidance of a systemic coach, the participants were able to reflect on and further define their leadership role.

Postdoctoral retreat of the Udk Berlin at the Guthaus Sauen (left) | Writing workshop at the doctoral retreat in Stolzenhagen, Brandenburg (right)

Post-doctoral students reflect during the retreat on their role as research group leaders.

CAREER DEVELOPMENT

In this area, the focus is on networking within the research community, integrating young researchers into teaching and project work, and acquiring skills for presenting and communicating research. To support career development, the Weizenbaum Institute invited participants to the Weizenbaum Career Talk for Junior Researchers on August 14, 2019. The event provided an overview of the support offered for early-career researchers at the consortium partners. In addition, the participants had the opportunity to obtain information on programmes for stays abroad from representatives of the German Academic Exchange Service and the German-American Fulbright Commission.

Weizenbaum director Prof. Dr. Hanna Krasnova opens the first Weizenbaum Career Talk for Junior Reseachers

SCIENCE INSIGHTS

Events in these areas strengthen interdisciplinary dialogue on the part of the institute's researchers. At the Brown Bag Coffee Talks, which take place monthly, two research groups provide insights into their work and present their initial results . This enables researchers to both reflect on and assure the quality of their own work and to further develop their own research agenda by engaging with new ideas from other researchers In addition, the annual Weizenbaum Research Days offer our scientific staff the opportunity to work on questions relevant to their research agenda with people from across the institute. In addition to one or two keynotes, the Research Days offer an open forum in which researchers can introduce their own topics and discuss them in workshops.

THEORY SEMINARS AND METHODOLOGY
WORKSHOPS FOR DIGITALISATION RESEARCH

The cross-group exchange on methods and theories for digitalisation research takes place in workshops organised by the individual research groups and is frequently opened to all young researchers from across the institute. The Weizenbaum Readings course took place at regular intervals during the reporting period. While in 2018, the focus was mainly on texts by Joseph Weizenbaum, in 2019, the focus was on writings on the network society. Further examples include the series of workshops organised by Research Group 18 "Quantification and Social Regulation" on the "algorithm" and its meaning in interdisciplinary research and the workshop on "Open Science – Practice of a New Research Culture", which was organised by Research Group 11 "Digitalisation and Scientific Value Creation" in cooperation with Wikimedia Deutschland e.V.

The interdisciplinary dialogue is practised at the
Weizenbaum Institute in various formats.

1.3 Internationalisation

We regard cooperation with international universities and research institutions in order to develop a network as an important part of our research mission. By networking across national borders, the Weizenbaum Institute is sharpening its own scientific profile, increasing its international visibility and promoting the mobility of its researchers.

Our international appeal can be measured by the diverse publications in recognised journals and conference proceedings, books, book chapters and research reports, but also by the prototypes and audiovisual productions created by researchers at the Weizenbaum Institute. A list of all publications that appeared during the reporting period can be found in Section 6.

A key instrument of international networking is the Fellowship Programme. In the reporting period, a total of 69 senior and junior fellows (52 of them international) were guests at the institute (see overview in Section 6.5). During their multi-week stays, which lasted up to six months, they were closely involved in the work and research of the individual groups as well as in cross-institute forms of exchange such as lectures, talks and cross-sectional formats.

Another pillar of internationalisation is international research cooperation. Research Group 1 "Working in Highly Automated Digital-Hybrid Processes" is developing a research project together with the Oxford Internet Institute and the WZB on the effects of the use of AI on global value chains and the global geography of work. As part of the Privacy Icons project, Research Group 4 "Data as a Means of Payment" is cooperating with the University of Luxembourg. Research Group 7 "Education and Advanced Training in the Digital Society" maintains a close scientific relationship with Hong Kong Polytechnic University (China) and Stellenbosch University (South Africa). One of the aims of this cooperation is to implement a joint learning project. Another cooperation exists between Research Group 14 "News, Campaigns and the Rationality of Public Discourse" and the Institute for Communication Science and Media Research at the University of Zurich. During the reporting period, the focus was on implementing a joint project entitled "Social Bots in Digital Public Spheres: Field Studies on Political Campaigns and Methodological Challenges".

Since October 2018, the Weizenbaum Institute has been a member of the Network of Internet and Society Research Centers (NoC), an initiative of scientific institutions focusing on the internet and society. Founded in 2012, NoC currently comprises 95 research institutions worldwide. Cooperation between its institutions should generate synergies and enable better coordination of research about the internet and society.

In the reporting period, a number of international delegations from the media, business and politics also visited the Weizenbaum Institute:

Delegation of international journalists and representatives of the media at Berlin Science Week (November 7, 2018)

Delegation of journalists and experts in digital communication from Africa for a discussion on new forms of political participation through digital technologies, organised by the Goethe Institute on behalf of the Federal Foreign Office (November 16, 2018)

Delegation of digitalisation experts from Cambodia, organised exchange of the Konrad Adenauer Foundation (May 9, 2019)

Delegation of the Goethe Institute with startup founders, representatives of associations from the fields of digitalisation and innovation and government representatives from Israel (July 4, 2019)

Research group leader Dr. Annett Heft presents her research work to an international delegation of journalists

1.4 Knowledge transfer

With various event formats, publications and activities, we are fulfilling our mission, which requires us to go beyond solely conducting scientific research on aspects of digital change to act as advisors for politics, business and society based on our interdisciplinary research portfolio. We play an active role in shaping the transfer of knowledge between research, politics, business, civil society and the interested public.
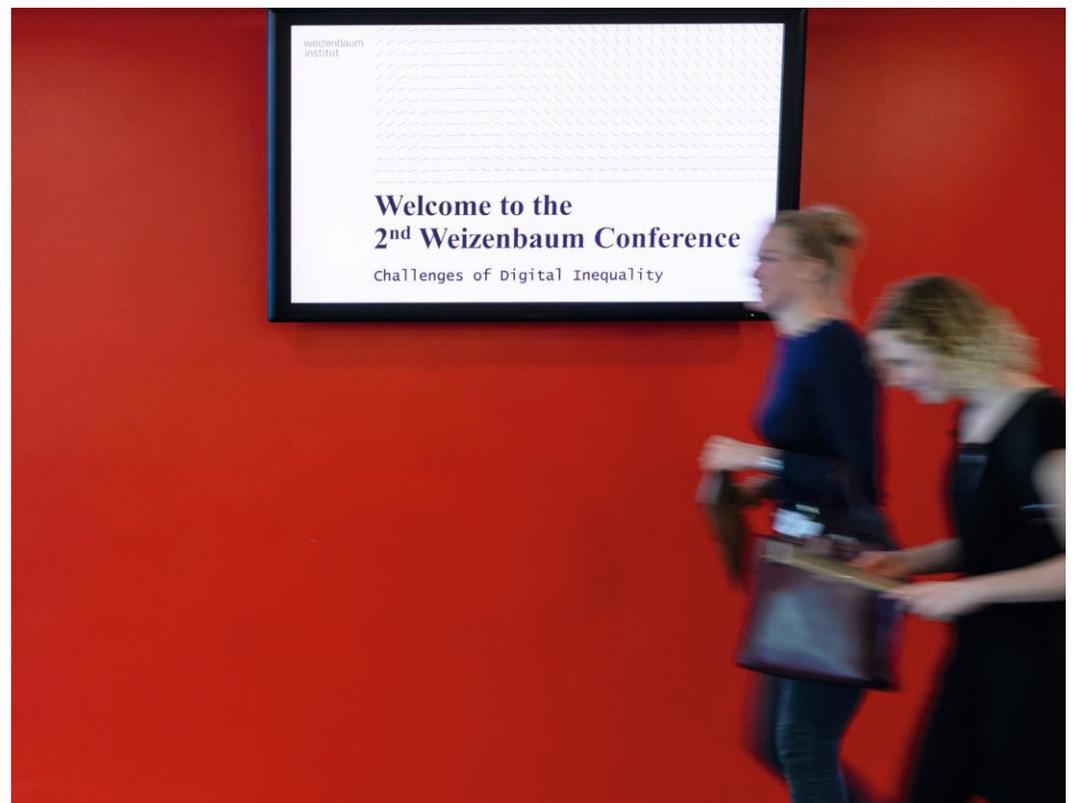
SCIENCE

The Weizenbaum Institute influences the international scientific community primarily through classical formats such as publications in journals and anthologies as well as contributions to conferences. In addition, we organise both internal and external series of events and invite exchange and reflection on current research issues. We offer outstanding scholars and practitioners the opportunity to research the transformation and design processes of digital change as research fellows in one of the twenty research groups. At the research group level, we cooperate with other academic institutions worldwide.

We achieve particular visibility through our conferences and events in Berlin to which we regularly invite the international scientific community. A highlight is the annual Weizenbaum Conference: on May 16 and 17, 2019, about two hundred participants at the second Weizenbaum Conference in Berlin discussed "Challenges of Digital Inequality. Digital Education, Digital Work, Digital Life", placing a particular focus on the challenges, drivers and effects of inequality in the digital age. With their keynotes, Dr. Michael Meister, parliamentary state secretary at the BMBF, Prof. Marcel Fratzscher, president of the German Institute for Economic Research, and Prof. Neil Selwyn, Monash University (Australia), provided the topics for debate and stimulated discussion on both days. The conference was preceded by a call for papers. In a review process, an independent scientific committee selected 18 papers, which were presented at the conference in six thematic sessions. In addition, twelve short contributions were presented in a poster session. Another highlight was the presentation of the Best Paper Award. The winner of the award was Mona Sloane from New York University (USA) with her work "Inequality is the Name of the Game: Thoughts on the Emerging Field of Technology".

From top left to bottom right: Presentation of the Best Paper Award | Prof. Marcel Fratzscher | Prof. Neil Selwyn | BMBF state secretary Dr. Michael Meister | MinDir Matthias Graf von Kielmannsegg, Dr. Michael Meister, Prof. Dr. Herbert Zech, Dr. Karin-Irene Eiermann

In the regular Weizenbaum Lectures and Weizenbaum Fellow Talks, the senior and junior fellows of the Weizenbaum Institute provide insights into their current research. Prof. Ariadne Vromen, University of Sydney (Australia), spoke about "Citizen Politics, Digital Participation and Storytelling" and Prof. Michael A. Xenos, University of Wisconsin-Madison (USA) gave a lecture entitled "Challenges of Fostering Healthy Political Engagement in an Age of Social Media". Stefania Druga, founder of the open source platform Cognimates for the use of AI in education, reported on her work with children.   Dr. David Lanius, Karlsruhe Institute for Technology, defined the buzzword "fake news" in his lecture. A total of eleven Weizenbaum Lectures and 30 Fellow Talks took place during the reporting period (see list of events in Section 6.6).

As part of the *Weizenbaum Meets* event series, we regularly invite guests from outside the institute to attend the lectures on selected aspects of their research and work in front of members of the institute as well as interested members of the public.

Among the guests in 2018/2019 were Dr. Andreas Weigend, founding member of the German chancellor's Digital Council, Andrew Sullivan, president and CEO of the Internet Society, and Wolfgang Coy, professor emeritus of computer science.

In total, the Weizenbaum Meets events took place 27 times in the reporting period (see list of events in Section 6.6).

In April 2019, the Weizenbaum Institute's Special Interest Group African Perspectives invited participants to an open lab meeting. The event focused on the question of to what extent information and communication technologies can modernise the economies of African countries to achieve sustainable growth and create new employment opportunities. The Special Interest Group brings together research groups 2 "Production Possibilities of the Maker Culture", 7 "Education and Advanced Training in the Digital Society", 8 "Inequality and Digital Sovereignty" and 13 "Digital Citizenship".

Weizenbaum Fellow Stefania Druga presents her open source platform Cognimates

Weizenbaum Lecture with Prof. Michael A. Xenos on political engagement in the age of social media

Guests at the Weizenbaum Institute: Dr. Andreas Weigend, founding member of the federal chancellor's Digital Council

Principal investigator Prof. Dr. Gesche Joost at the kick-off event "African Perspektives".

POLITICS

Basic research and scientific policy advice go hand in hand for us: as scientific guides to the digital transformation, we always seek dialogue with political and administrative decision-makers. Many of the institute's research projects are designed to generate empirically based recommendations for action.

In their function as founding directors of the Weizenbaum Institute, Ina Schieferdecker and Martin Emmer held a symposium at the BMBF entitled "Who Owns the Internet? Tasks for Politics, Education and Research" on January 28, 2019.
In the lecture, they first explained the significance of digital commons for networked democracies and then presented selected challenges for a public welfare-oriented maintenance of digital commons.

On February 20, 2019, we invited participants to our first Parliamentary Evening event on the topic "The 'Privacy Paradox': Data Protection and/or Data Management?" Keynote lectures by founding directors Ina Schieferdecker and Axel Metzger as well as the PIs Jeanette Hofmann and Thomas Schildhauer dealt with the challenges to the business models of the growing data economy arising from the high European data protection standards. From different perspectives, the speakers showed how a data protection-compliant use of commercial and public data can promote self-determination and participation in value creation.

In addition, many of our staff members are represented in various committees and actively promote the goals pursued there together with others (further information on memberships, offices and functions of the directors and PIs in Section 5).

As a member of WBGU, Ina Schieferdecker was involved in the preparation of the main report for 2019 entitled "Our common digital future". This examines the question of whether technological innovations such as AI, automated decision making and virtual spaces can help solve the problems of the present.

The PIs Martin Emmer, Jeanette Hofmann and Gesche Joost are currently members of the federal government's Expert Commission to Prepare the Third Engagement Report on the topic "The Future of Civil Society: Young Engagement in the Digital Age".

Martin Emmer is also a member of the "Media and Integration" thematic forum of the Federal Commissioner for Migration, Refugees and Integration. In addition, he took part in the German Bundestag's committee hearings during the reporting period and was a guest at expert meetings of the CDU/CSU parliamentary group of the German Bundestag. Weizenbaum director Martin Krzywdzinski is also active as an expert for the Enquete Commission on "Digitalisation of the World of Work" of the State Parliament of North Rhine-Westphalia.

Florian Butollo, head of Research Group 1 "Working in Highly Automated Digital-Hybrid Processes", is an expert of the German Bundestag's Enquete Commission established in September 2018: "Artificial Intelligence – Societal Responsibility and Economic, Social and Environmental Potential".
The task of this commission is to examine the future influence of AI on how we live (together), on the German economy and on the future world of work.

In April 2019, Stefan Ullrich, head of Research Group 6 "Responsibility and the Internet of Things", was appointed to the expert commission for the German federal government's Third Equality Report, which deals with the question of which decisions need to be made to shape developments in the digital economy such that women and men have equal chances of benefitting.

Another example of the transfer to politics is the participation of the Weizenbaum Institute in public consultations. For instance, Research Group 17, "Trust in Distributed Environments", made an official submission to an online consultation initiated by the Federal Ministry of Finance and the Federal Ministry of Economics and Energy with the aim of developing a blockchain strategy for the federal government.

In June 2019, the Weizenbaum Institute hosted the workshop "To-wards a Human-Centred Data Governance Approach in Europe" convened by the British Royal Society and the think tank Science Advice for Policy by European Academies. The workshop was attended by scientists, but also representatives of the EU Commission, employees of companies and policy advisors.

On July 8 and 9, 2019, Research Group 18 "Quantification and Social Regulation" together with the German Political Science Association (Deutsche Vereinigung für Politikwissenschaft) organised the international conference "Scraping the Demos. Political Epistemologies of Big Data". The aim of the conference was to discuss the emergence of politically relevant knowledge through big data with various target groups.

Scraping the Demos: Discussion with research group leader Dr. Lena Ulbricht

Weizenbaum director Prof. Ina Schieferdecker opens the workshop "Towards a Human-Centred Data Governance Approach in Europe".

Lecture by Principal Investigator Prof. Dr. Dr. Thomas Schildhauer at the Weizenbaum Institute's Parliamentary Evening event.

BUSINESS

Undertaking research projects in cooperation with commercial enterprises, organising joint workshops, and maintaining close contact with the digital start-up scene doesn't just offer us opportunities to transfer scientific findings and socio-political objectives into entrepreneurial practice; it also enables our researchers to realistically assess the problems and demands of digital technologies.

Together with HU Berlin, the Weizenbaum Institute, under the leadership of Research Group 17 "Trust in Distributed Environments", organises the Blockchain Nights that take place several times a year. This series of events explores topics such as crypto currencies, smart contracts or blockchain technologies from both a technological and an economic perspective. The programme of the Blockchain Nights consists of short lectures lasting ten minutes each and a concluding panel discussion. The aim is to bring together researchers, students and members of the Berlin start-up scene.

As part of Berlin Science Week 2019, we took part in an Impact Café on start-up companies from the humanities and social sciences, organised by the non-profit organisation ASTP-Proton and management consultants G&K. In terms of transfer between research and business, it is worth noting that start-ups are regarded as one of the most important channels for knowledge transfer, especially in the humanities and social sciences.

As part of research work on algorithm-based processes in digital teaching media, Research Group 5, "Data-Driven Business Model Innovation", organised workshops and projects with business and industry partners during the reporting period and conducted surveys and interviews to research business models.

Lecture by Ph.D. student Rainer Rehak at the Blockchain Night at the eizenbaum Institute

CIVIL SOCIETY AND THE INTERESTED PUBLIC

Political and societal issues associated with digital change are attracting increasing public interest. At the Weizenbaum Institute, we therefore always seek dialogue with experts from civil society and non-governmental organisations. In addition, we make aspects of our research work accessible to interested citizens in special formats.

The Turing Bus, named after the British computer pioneer Alan Turing, is a mobile educational project of the Gesellschaft für Informatik ("German Informatics Society"), the Open Knowledge Foundation and the Weizenbaum Institute. The project was initiated in 2018 by Stefan Ullrich, head of Research Group 6 "Responsibility and the Internet of Things", and funded by the BMBF within the framework of the Science Years 2018 "Working Worlds of the Future" and 2019 "Artificial Intelligence". The Turing Bus focuses on rural areas and aims to strengthen the structures there that deal with digital literacy and social participation. The target groups are educational institutions, both schools and other organisations. In addition to conducting hands-on workshops with school students, the project teaches digital skills and produces materials under a free licence. In addition, the project will be accompanied by an evaluation of the didactic methods by Research Group 7 "Education and Advanced Training in the Digital Society".

The Turing Bus is a mobile educational service, funded by the BMBF.

In November 2018, we participated in TU Berlin's conference on digitalisation and sustainability "Bits und Bäume" (Bits and Trees). With an interactive installation – the "Automation Demystification Discourse Machine" (ADDM) – we conveyed basic industrial automation concepts in a playful way and placed them in larger social contexts. ADDM involved research groups 1, "Working in Highly Automated Digital-Hybrid Processes", 4, "Data as a Means of Payment", 5, "Data-Driven Business Model Innovation", 6 "Responsibility and the Internet of Things", 18, "Quantification and Social Regulation" and 20, "Criticality of AI-based Systems".

We participated in the Berlin Science Week 2018 with a Weizenbaum Lecture. The American political scientist and Weizenbaum Fellow Prof. Lance Bennett, University of Washington (USA), spoke in his lecture about the current challenges for democracy, which have been conditioned by the increasing fragmentation of the public, among other things.

Berlin Science Week: Weizenbaum Fellow Prof. Lance Bennett at his lecture on the challenges for democracy

At the digital conference re:publica, which took place from May 6 to 8, 2019 in Berlin, employees of the Weizenbaum Institute participated in the social debate on the design of digitalisation via various formats. In a panel, PI Gesche Joost explored how digital platforms can be made more sustainable and humanistic. Ph.D. candidates Andrea Hamm and Hans-Christian Gräfe gave a lecture on illegitimate communication on the internet and revealed the effects that social bots and trolls can have on political decisions. Research group leader Diana Serbanescu discussed the use of AI in art in a panel discussion. PI Jeanette Hofmann discussed how conditions for the regulation of digital platforms should be designed In the session "The Good Censor? Trust and Responsibility for Millions". In another panel, research group leader Michelle Christensen exchanged ideas with art creators, designers and researchers on approaches and methods for designing future products and concepts.

Research group leader Dr. Diana Serbanescu (centre)
discusses AI in art

Panel with principal investigator Prof. Dr. Gesche Joost on
the sustainable design of digital platforms

Lecture by Andrea Hamm and Hans-Christian Gräfe on
illegitimate communication on the internet

1.5   Development of a corporate design

Together with the agency CDLX, we further developed the existing corporate design in the reporting period. The aim was to create a science brand that interprets the fuzzy concepts of society and digitalisation in a way that does justice to the work of Joseph Weizenbaum, after whom our institute is named, and at the same time is open to the future.

Our visual appearance is shaped by our main typeface: Times New Roman. As the typeface of publisher Suhrkamp Verlag and a former standard typeface of the most common operating systems, it references digital and analog history. Space Mono was introduced as a secondary font. It serves as a contemporary style element that balances the historical weight of Times New Roman. As a non-proportional font, it reminds readers of classic typewriters as well as of text and code editors.

This involved the development of a colour concept for digital and print publications. The main colour of our corporate design is greige. Its use has become an eye-catching core element of the visual appearance of our institute. Greige is complemented by a total of six secondary colours, the combination of which results in a harmonious colour palette and allows us to recognise togetherness.

As a further stylistic element, we developed a key visual element based on the backslash. In its most frequent use, the backslash is displayed at varying angles in a flexible grid. In one sense, the backslash is derived from the branches of the letter W in the institute's word and design mark; in another sense, it refers to various functions in the programming languages.

Based on the new design guidelines, we relaunched the website. The new website has been online since April 1, 2019.

Main colour   Key Visual   Main font   Secondary font

Times   Space

Secondary colours
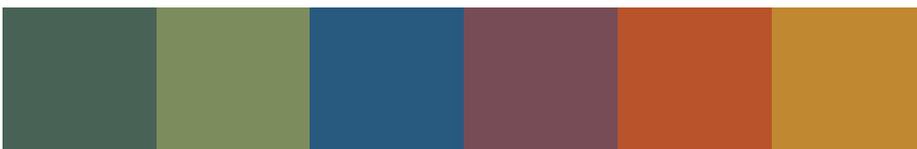
1.6   Expansion of the institute's premises

Last year, we were able to report that all the research groups were accommodated in the institute's headquarters in Berlin-Charlottenburg. Since then, the Weizenbaum Institute has had a well-equipped, functioning office floor for all its employees. We were very pleased when, in April 2019, additional space was added to the ground floor of the site, making the institute's headquarters more distinguished. The network coordinator WZB was able to rent the space previously used for Berliner Bank's private banking division. For us, this means an additional 650 square metres of usable space and our own access from Hardenbergstrasse. This means that the institute now has a total area as originally planned for the initial phase: 2,300 square meters.

It is planned to use part of the new space on the ground floor as an aesthetically appealing management wing, with offices for the directors and the management as well as the employees of the head office and administration. We are particularly pleased that we will have a 330-square-metre event area for internal and external events. When no events are taking place, the area will be transformed into a communal area with tables and chairs. Here, the members of the institute will be able to eat together, hold larger meetings or host their guests.

Construction work on the ground floor began in summer 2019 and should be completed by the end of the year. The WZB is responsible for overseeing construction and equipping the rooms as well as organising the associated extensive public tenders in its capacity as consortium coordinator. The WZB is also responsible for the technical infrastructure, the internet and line connections, the server systems and routers, the furnishing of the offices with workstation computers and telephone systems, the provision of media technology in the event room and the commissioning of services for day-to-day operations.
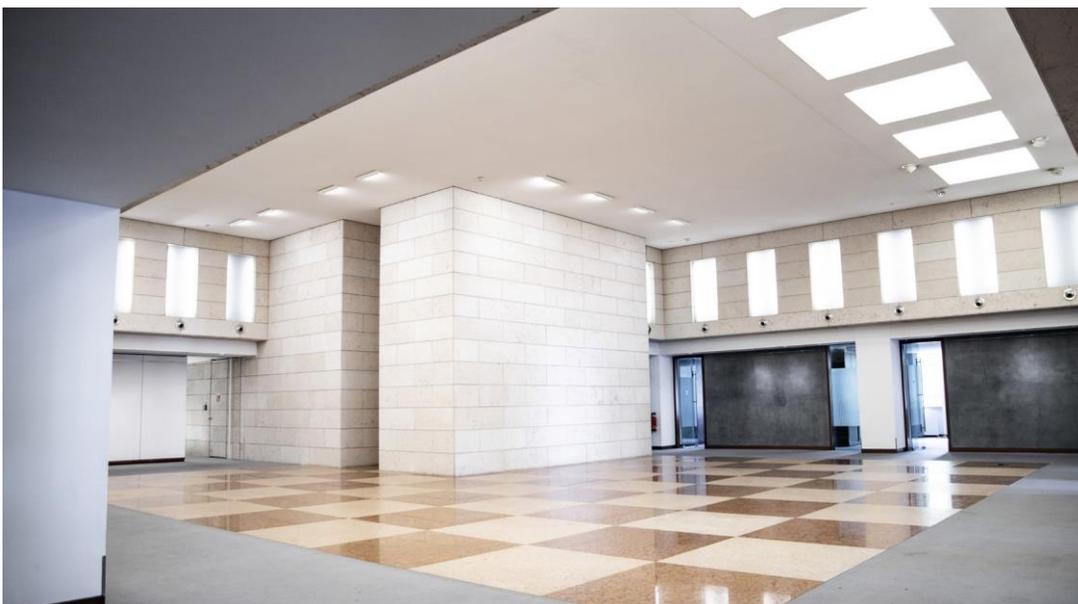
In the former private banking offices of Berliner Bank, the management wing of the Weizenbaum Institute is being built.

1.7   People at the Weizenbaum Institute

Total (183)

Scientific management
(Directors + Principal Investigators) (17)

Head office (15)

Postdocs (24)

Doctoral candidates/ Research
associates (66)

Research group assistants (7)

Student employees (54)

Women 28	Women 7	Women 30	Women 12	Women 11	Women 6	Women 94
Men 26		Men 36	Men 12	Men 4	Men 11	Men 89
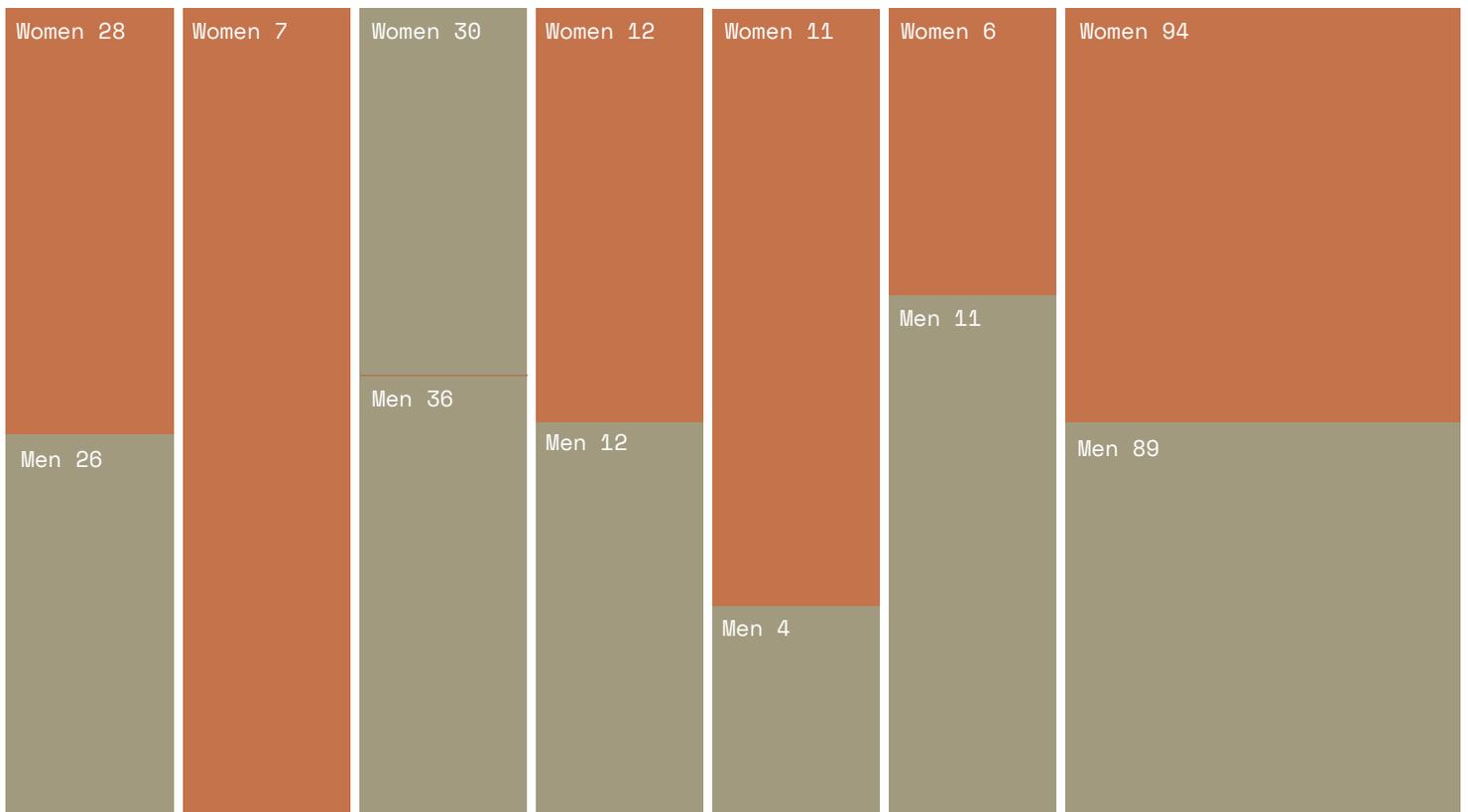
II. Dossier

Privacy Icons: Making Data Protection Understandable

The Privacy Icons project team
(f.l.t.r.): Lena Mischau,
Marie Schirmbeck, Dr. Zohar
Efroni, Niklas von Kalckreuth and
Jakob Metzger

Research Group 4, "Data as Means of Payment", is developing an easy-to-understand, standardised symbol system that could complement the complex privacy statements of many online services in the future.

It's a daily routine on the net: If you want to use online services such as Facebook, Google or Airbnb, you first have to agree to the data protection and terms of use. Most people almost automatically click on "accept" without having read the privacy policy beforehand.
Companies are thus allowed to collect, evaluate and pass on personal data at the click of a mouse – often for years to come if the user does not withdraw consent at some point.

In a recent study commissioned by the New York Times, journalist Kevin Litman-Navarro compared 150 English-language privacy statements and reviewed them for length and readability. The result: most of the statements require reading skills at the a university-graduate level.

Moreover, they are almost unmanageably long. The Airbnb statements take an average of 35 minutes to read; on Facebook they take 18 minutes.

This is where the Privacy Icons project comes in. The aim is to develop a tool for visual communication that could supplement complex written privacy statements in the future: an easy-to-understand, standardised symbol system that increases awareness by giving users information on certain data protection features with potentially negative consequences before they give their consent.

"You can compare what we are doing with the well-known Creative Commons copyright license, which also uses pictograms to illustrate legal issues," says research group leader Zohar Efroni.

"For the Creative Commons license, standard licenses were developed in addition to the pictograms. Such standardisation, however, would be more complicated for privacy statements, so the Creative Commons' approach cannot be implemented one-to-one."

The first phase of the project involves creating a catalogue of risks that users may face as a result of consenting to the processing of their data. These risks include, but are not limited to, the violation of civil liberties or discrimination based on political opinions, ethnicity or health status. Here, the EU's General Data Protection Regulation, which refers to various risks, provides guidance. The risks are then weighted with the aim of identifying the most relevant aspects of data processing. For the weighting, interviews are conducted with both experts and users. This should make it possible to identify risks that are classified by experts as particularly relevant, even if users cannot always recognise this relevance and understand the possible implications of the risks. "We want use our privacy icons to deal with these risks", explains Efroni.

The aim of the icon design in the second project phase is, first, to increase user motivation and attention and to deal with data protection issues in general. Second, the icons should reduce the information burdens associated with the study of consent statements. Furthermore, standardised icons offer the possibility of conveying meaning independently of reading competence and language barriers.

Findings from psychology and behavioural economics provide the scientific basis for the designs. One of the project's starting points is the so-called picture superiority effect. Using this concept, psychologists investigate when and why pictorial representations can be recognised more quickly than texts and retrieved from memory with less effort.

"Privacy icons are not just about convenience", emphasises Efroni. "In data protection law, legally compliant consent actually presupposes that the users who consent to the use of their data make an informed decision. However, it is doubtful whether this is the case in current practice.

"We imagine that, in the end, relevant terms of use or aspects of data processing can be simplified by using a limited number of icons," explains Efroni. "How many icons we will ultimately have, what the icons will look like and how we will use additional elements, such as colour coding – all this has to be tested in experiments. If you try to put too much into it, you won't achieve the goal of simplification."

In the specific application contexts, it is up to the companies and app providers to decide which aspects of the contract conditions the icons need to highlight based on set implementation rules, with the ultimate goal of helping users understand data protection regulations better and faster. The icons will not replace the contract text. Instead, the icons are intended to highlight essential aspects of processing practices, which interested users can then read about in detail.

How social media can affect mental well-being

The use of social media has noticeable effects on self-esteem and thus on life satisfaction. It makes a big difference whether users actively contribute themselves or only passively consume media, for example by browsing through other people's online profiles and comparing themselves more or less consciously with these profiles. This is a finding from Research Group 9 "Digital Technologies and Well-Being". In experiments, the researchers are now testing, among other things, how long-lastingthese effects are.

Billions of people worldwide use social media such as Facebook, Instagram or Twitter to find out about the latest events, news and general updates from the lives of close friends, acquaintances and strangers. But social media also offers information that does not seem as obvious at first glance: it offers them insights about themselves. How do other users perceive me? How do others interact with me in a digital environment? How do I compare with other people?

For this reason, it is clear that the use of social media can have an effect on people's self-esteem, that is, on their subjective assessments of themselves. Members of Research Group 9 "Digital Technologies and Well-being" (Hannes-Vincent Krause, Katharina Baum and Annika Baumann) under the scientific direction of Hanna Krasnova are investigating this.

Self-esteem plays a decisive role in human well-being. People with low self-esteem, for example, have an increased risk of numerous physical and mental health problems, such as cardiovascular disease or depression. Likewise, high self-esteem is ascribed numerous protective functions that shield people from the effects of personal failures and critical life events. Research has long been concerned with how situational impressions affect the long-term assessment of a person's self-esteem. Even if it can be assumed that everyone has a reasonably stable self-esteem, we know that numerous factors such as personal success or failure can influence individual self-esteem, both situatively and in the long term.

Research into the influence of social media on self-esteem is not completely new territory in research. Research group leader Annika Baumann and her colleagues analysed 49 research papers published between 2005 and 2018 at the beginning of their project. The situation seemed confusing at first. Some studies showed a negative effect, others a positive one, while others were unable to find any connection. "In our opinion, the use of social media has not been captured precisely enough in previous studies," explains Ph.D. candidate Hannes-Vincent Krause. "We assume that how exactly social media is used makes a decisive difference: for example, whether a person only consumes passively or whether they participate actively."

Based on this consideration, and incorporating established socio-psychological theories, the researchers developed a model to better explain the confusing results to date. This model is based on three decisive processes that come into play in the use of social media and thus influence users' self-esteem.

First, social comparisons are mainly linked to a decline in self-esteem. "For example, those who start comparing themselves with other users will quickly lose out", says Ph.D. candidate Katharina Baum. "There is a tendency for users to present themselves in an idealised and emphatically positive way on the internet. Often, the user's own real self-image cannot keep up with this. Second, social feedback, which is given frequently and freely on social media, can, by contrast, have a positive effect on a user's own self-assessments.

The best example of this relates to social media *likes*: receiving a *like* can satisfy the basic human need for social acceptance and – according to current research results – have a positive effect on self-esteem. Thirdly, self-reflection is another important process in social media. Social media make it easy for users to present themselves in a particular way. "Like on a movie screen, users can create an image of themselves, underline, omit or soften particular aspects", explains Katharina Baum. Looking at your own profile – provided it corresponds at least to a certain extent to reality – can thus strengthen self-esteem.

And indeed, the data from the studies already analysed in the literature review tends to confirm the researchers' hypotheses. But the research group wants to know more: are the processes that influence self-esteem equally relevant for all users of social media? Which users are particularly at risk when using social media and who benefits most from the positive aspects of these platforms? How lasting are these effects and how do they influence the long-term well-being of the users?

To answer these questions, the group has developed its own research designs and intends to conduct experiments, among other things. "The experiments themselves will largely be carried out online. Usually there are different groups that use social media differently or will not use them. A comparison of these groups enables us to determine exactly whether the use of social media actually has a causal effect on self-esteem", explains Hannes-Vincent Krause.

By answering the research questions, the team hopes not only to gain a better insight into the complex dynamics of social media use and its interaction with self-esteem, but also to make practical recommendations on how users should best deal with these platforms.

"Dubious expectations of artificial intelligence"

Sociologist Dr. Florian Butollo investigates how digital platforms and AI technologies are changing global value chains.

Florian Butollo heads Research Group 1 "Working in Highly Automated Digital-Hybrid Processes". His work focuses on the effects of the industrial internet of things on the structure and geography of global value chains and the influence of AI on manufacturing processes and business models in companies. An interview about his work as an expert on the German Bundestag's Enquete Commission "Artificial Intelligence – Societal Responsibility and Economic, Social and Environmental Potential".

Mr. Butollo, in September 2018 you were appointed as one of 19 experts to the Bundestag's Enquete Commission on "Artificial Intelligence." What would you say is the purpose of such a commission?

The basic idea is as follows: parliament sees certain questions of enormous social and ethical importance which cannot be dealt with adequately in its day-to-day sittings. That is why it is convening an enquete commission. Members of the Bundestag and external experts join forces for two years to develop solutions. That, at least, is what it looks like in theory.

What about in practice?

We certainly do look for solutions to new problems and positions can change and arguments can make a difference. At the same time, most politicians enter the process with established positions, and many experts don't just represent their personal opinions but also those of their organisations, along with the associated lobbying interests. That is no secret either. In addition to representatives from civil society and science, we also have experts from companies such as SAP, Infineon and IBM, as well as from business associations from the IT sector and start-ups. All in all, the aim is for various interest groups to reconcile their goals, and the economic interests of the AI companies play a major role in this.

What will the result be in the end?

Three project groups are developing recommendations for the use of AI in different fields. In the first period, the topics of economy, state and health are on the agenda; in the second period, the topics are media and mobility as well as work, education and research.

In the course of the project group work, external experts are additionally invited as speakers. Each of the project groups produces its own interim report. The project groups usually meet once a month for this purpose; besides this, telephone conferences are held by teams that have agreed to jointly write parts of the interim report. At the end, the interim reports are published as an overall report, which then has around 600 to 700 pages.

Isn't that much too long for someone to really read?

We have often discussed the length in critical terms, but it also offers a great claim to completeness. That's why you can't get away from this extensive format. How much the report will shape the political discussion on the subject will become apparent in time, especially since there are already a number of statements, such as the federal government's AI strategy, the report of the High-Level Expert Group of the European Commission or the digital strategy of the BMBF. Our report will probably have the greatest impact on the general public rather than on members of the Bundestag. In this, what also plays a role is how you, as a commission member, can shape individual parts of the text in a way that is visible to the outside world. One instrument for this is the special vote procedure, which is necessary because otherwise critical positions would get lost in very general consensus formulations.

What have you achieved so far?

I was concerned that dubious expectations for the performance of AI and for its social and economic effects should not be included in the report. There is a very broad community that always only likes to hear or spread messages about purportedly impending economic booms due to AI. In this context, the question of what kind of AI we need as a society and for what purpose no longer arises.

This issue – namely that technology is ascribed miraculous powers and that this impairs political judgement – was a central issue that Joseph Weizenbaum dealt with throughout his life. In all modesty, I had the feeling that I was stepping a little into his shoes in my role in the AI commission. His statement that a society that embraces technology needs a great inner strength in order to avoid becoming too greedy and distracted from its goals is like a motto for my work in the Enquete Commission – and at the same time also indicates what is going wrong in society at the moment.

Will the report then point to societal goals that seem achievable with the help of AI?

If I am honest, there is massive dissent about this. Not all the commission members want to discuss the use of AI in the context of a socio-ecological transformation, which I consider to be urgently necessary simply because of climate change. Instead, there is a strong fixation on the global race for technological leadership and economic growth. Growth becomes an end in itself and AI threatens to become a fire accelerator, not a lever for solving global human problems. Coupled with exaggerated expectations of productivity increases, this is a recipe for a deepening of the socio-ecological crisis. Especially since the current path of machine learning will have shocking environmental consequences. According to a calculation by MIT researchers, the training of a single AI model consumes more CO_2 than five average cars over their entire life cycle. This alone shows how negligent it is to promote the use of AI without clear goals.

Why do you consider the expectations regarding productivity and economic growth from AI dubious?

Many findings come directly from our empirical research on the robotics industry, which we conduct at the Weizenbaum Institute. The companies in this industry are, on the one hand, pioneers in the development of new technologies and, at the same time, have to be very pragmatic, because their devices have to deliver practical advantages to the customers. There are no one-size-fits-all solutions. Instead, it is an enormous engineering effort to get AI-based robotic systems adapted to specific requirements up and running on site. In general, technology use currently more closely resembles a cautious search process than a comprehensive disruption. The abstract potential for productivity increases, as shown in studies by many market research institutes, is difficult to realise. And the macroeconomic question of whether technology use will actually translate into economic growth is even trickier. The vast majority of forecasts are based on supply-side calculations alone. They calculate savings effects and translate them into growth. But even if it were possible to create ever more efficient economic apparatuses, sales opportunities remain limited. But if productivity grows without demand being able to keep up, this will lead to speculative bubbles and crisis tendencies rather than sustainable growth.

Aren't there also forecasts that take demand into account? When I started in the Enquete Commission, I was desperately looking for a macroeconomist who could comment on existing forecasts and also take demand effects into account. I was barking up the wrong tree! Macroeconomists don't do this, because it is simply not possible to deduce growth effects from abstract productivity potential, due to the full complexity of economic cycles.

What would have to happen for AI to have positive effects on society?

In view of the range of global problems we face, social objectives should be given much greater emphasis in technological development. AI should be promoted in areas where it actually promises social benefits and long-term public funding should be used to make it economically profitable in such cases. The current venture-capital-driven innovation model provides the wrong incentives because it rewards the gold miners at the expense of the visionaries.

Thank you
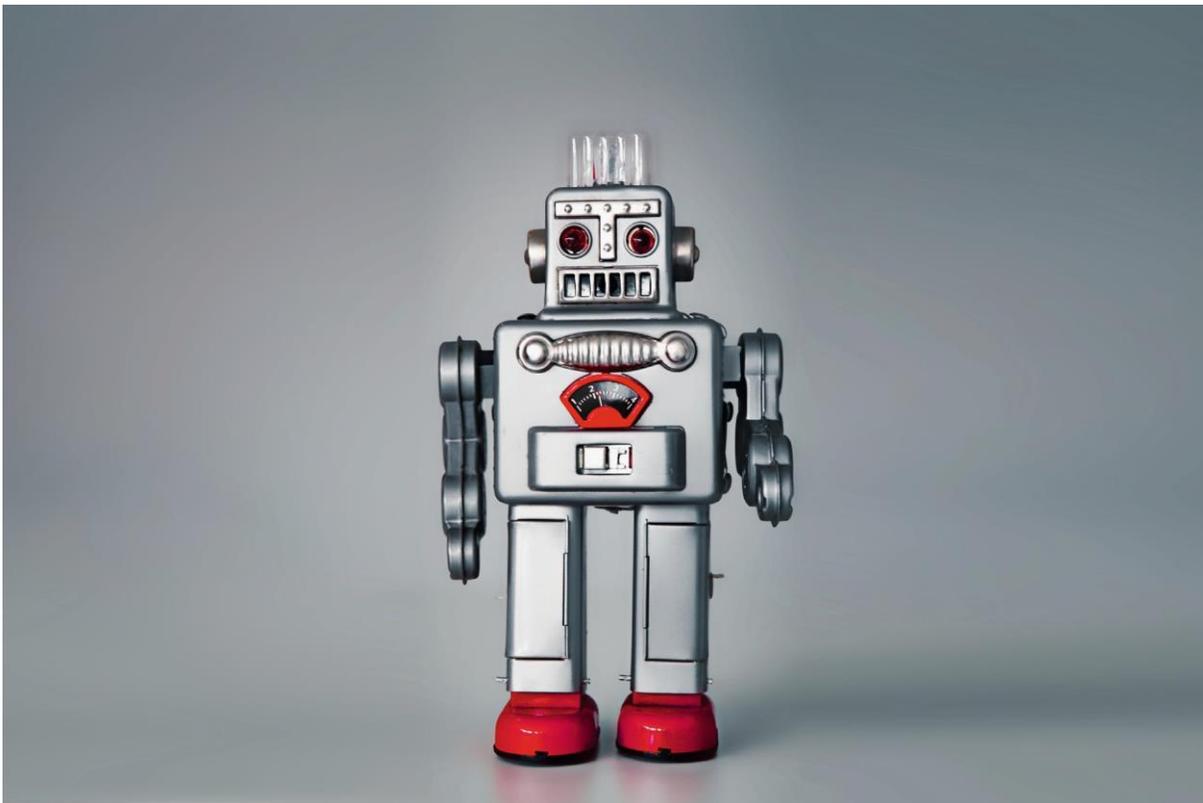
Tailor-made training

Research group leader Dr. Gergana
Vladova with the Ph.D. students
Malte Teichmann (left) and Leo
Sylvio Rüdian (right)

Taking all your employees along with you in the course
of digitalisation and retaining important knowledge in
the company is a central task of advanced training for
a networked world. Malte Teichmann and Leo Sylvio
Rüdian of Research Group 7 "Education and Advanced
Training in the Digital Society" are investigating how
this can be achieved.

Digitalisation can affect education in two ways: We not only learn in a digital world, we also educate ourselves for this increasingly digitalised world. And the older we get, the harder it is for us to do so.

In many companies, there is an opinion that older people will find technological progress and the conversion to new automated and digitalised production and business processes difficult. Malte Teichmann of Research Group 7 "Education and Advanced Training in the Digital Society" doubts this so-called deficit thesis: "If you follow the research literature on lifelong learning," he says, "then you could just as easily advance the contrary hypothesis: older employees' cognitive abilities deteriorate because they are no longer challenged, because they are given one-dimensional tasks and because they no longer receive further training courses that are appropriate for their target groups.

Small and medium-sized enterprises, so-called SMEs, not only face the challenge of taking older employees with them when digitalising their companies, they also have a completely different problem: they lack the next generation of skilled workers. In this context, which is being exacerbated by the already shrinking working population, many managers of SMEs are considering digitalising the specialist knowledge of employees who will be retiring in the near future as a permanently available resource for future generations. If only they knew how.

This is exactly what Teichmann is concerned with. As part of his research project, he has established a relationship with three SMEs from the construction supply and machine manufacturing sectors that are facing a loss of experiential knowledge in various production processes. Teichmann is conducting ex tensive interviews and field observations in the companies in order to determine the content for various company training courses. "My idea is to develop a model that can help us to understand how experiential knowledge is generated in production processes and which makes visible certain elements of this knowledge that can be conveyed", says Teichmann.

Among other things, the plan is to establish interactive educational offerings in which special digital learning spaces are created with the aid of augmented reality technologies (AR technologies) and made available to learners for the socialisation of experiential knowledge. AR is an enhanced version of reality. Digital information is superimposed onto a real image through the use of technology. Employees could, for example, view the data of a production machine through the camera of an iPad and receive information on noticeable problems, such as critical limit violations, which is digitally displayed on the screen. Teichmann will first test his approach to the transfer of experiential knowledge in the Industry 4.0 Application Centre at the Chair of Business Informatics at the University of Potsdam, before using the training courses directly in the three Brandenburg companies. "I am conducting my research with a design science approach that is geared towards creating artefacts that can also be applied in reality", he explains.

"Drawing on experiences in the learning workshop, I can already improve the educational offerings before I subject them to a second improvement phase, which takes the form of an applied check."

In addition to the task of developing new technology-supported teaching and learning concepts, another trend is determining research into education and further training in the digital world: the personalisation of offerings.

Maany companies are already using online courses for the further training of their employees. The big opportunity is to make these courses more geared to the learner. The challenge faced by many online courses is that their user community is very heterogeneous. However, there is no single learning environment that fits all. Personalisation should take place at different levels: At the macro level, the aim is to adapt the learning content to the different needs of users through recommendations. At the micro level, it is also a matter of taking the different personalities of the users into account when designing the course. "Howcontent is presented in an online course, whether in graphical or textual form, for example, can also influence how motivated a participant is", explains Leo Sylvio Rüdian of Research Group 7 "Education and Advanced Training in the Digital Society".

Using an experimental design, he was able to demonstrate that personality traits can be predicted on the basis of user behaviour in online courses. He determined users' click behaviour in an e-learning course on search engine optimisation, which 142 interested people completed on the Moodle learning platform. "We recorded how long learners stayed on individual pages before moving on, and how often they looked at a page. How long it took them to complete each of the different tasks and how good the answers were. These are all data that any provider can simply collect, because they are generated during use anyway," says Rüdian.

The online course was divided into three parts, and at the end of each part of the course, participants also answered a questionnaire that provided information about certain characteristics of their personalities and culture. Just as commercial providers draw conclusions about consumers' personalities from the click behaviour on their websites, Rüdian then trained a neural network with the course participants' behavioural data in order to identify certain patterns in click behaviour, from which conclusions can be drawn about the learners' personalities. The learners' behaviour within the online course was a very good indicator of how open they are to new experiences, how conscientious they are, and how neurotic they are. Demographic characteristics such as the age and gender of the participants could also be predicted very accurately in the experiment. Even for the cultural influences that affect them, behaviour in the online course was a very good indicator.

"What surprised us most," says Rüdian, "was which of the cultural traits we could predict most accurately. We were able to predict whether a person was more long-term oriented or whether they lived in the here and now better than we would have been using demographic data. We don't yet know why this works so well, because the neural network is like a black box: it's a data structure that we don't understand. But we want to use the raw data to find an explanation for the click behaviour."

In conclusion, these results mean that e-learning courses can be personalised and optimised based on these characteristics. How such courses should be adapted to learners will be the subject of Rüdian's future research. Knowing which characteristics can be predicted by behavioural patterns will allow online course designers to differentiate between different user groups and better support them in their learning experiences. It is hoped that the personalisation of advanced training will make it easier in the future to retain employees who find it more difficult than others to cope with change processes – whether because of their age, cultural background or personality.
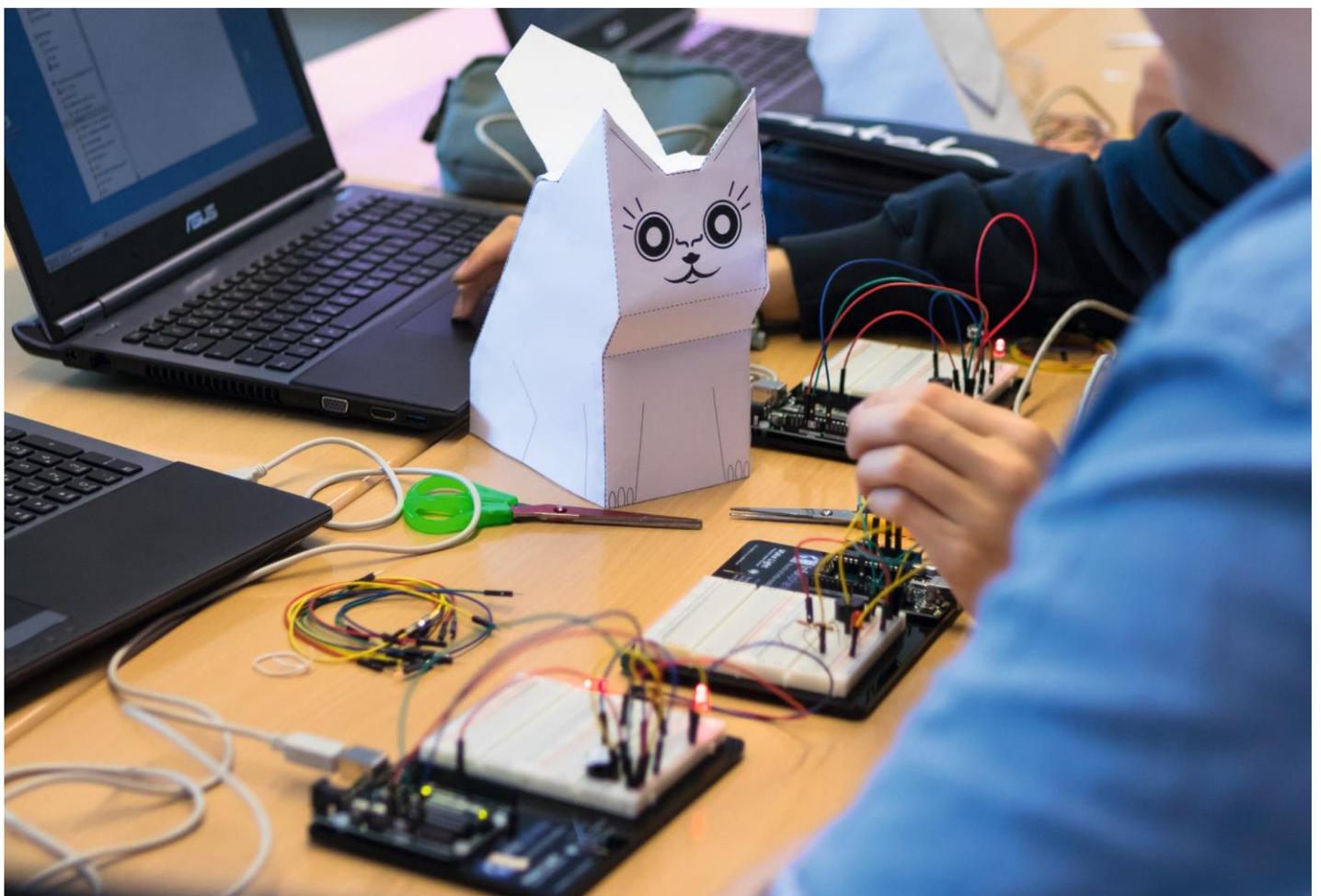
Social bots and a storm in a teacup

A commentary by Ulrike Klinger, head of Research Group 14 "News, Campaigns and the Rationality of Public Discourse"

When you're dealing with news, campaigns, and the rationality of public discourse, as Research Group 14 does, you encounter interesting conspiracy theories every day. So far, my favourite has been that "the flower industry" murdered Lady Diana in 1997, because: *Cui bono?!*

In the spring of 2019, I myself was declared part of a conspiracy. Social bots, a journalist and a professor repeatedly wrote in dozens of tweets, do not exist at all. This is just a wild conspiracy theory of crazy scientists, or more precisely of "firecrackers with academic titles", for example, me.

My Swiss colleague Tobias Keller and I had previously dared to publish an award-winning study in a high-ranking journal whose findings indicate that social bots played hardly any role in the 2017 federal elections.

To deny outright the existence of social bots, that is, partially and fully automated social media accounts, is a very daring thesis. The issue is not just that "amplifier accounts" have been found by numerous research teams around the world using a variety of different methods. In their transparency reports, the platforms themselves have also reported on bots and their measures against "malicious automation" (Twitter).

To claim that there are no social bots is therefore a bit like claiming that there is no man-made climate change – it would be nice if it were true, but unfortunately the empirical evidence is overwhelming. What we can and should argue about, on the other hand, are the empirical methods we can use to identify these and similar actors and how we can measure whether they are having actual effects on public discourse dynamics. Then we would be back to a critique of research methods, but that does not seem to be the point in this case.

Science is not a petting zoo – hard criticism and sceptical questioning are necessarily its modus operandi. This is not always nice and all researchers have stories about "grizzly reviewers" who go over the top in double-blind reviews of journal or conference submissions. As early as 1919, Max Weber wrote about the inevitable impositions people had to endure without bitterness when choosing science as a profession.

But the quality of the debate changes completely when the attacks come from actors who cannot present their own scientific evidence for their claims, when personal insults ("idiots", "intellectually lazy, stupid", "bullshit articles", "academic fraudsters", etc.) replace normal respectful engagement, and when criticism does not take place in the established formats of scientific discourse, but on Twitter. Unfortunately, this has been happening more frequently in recent times, especially for colleagues who deal with politically relevant topics such as populism, climate change, feminism, racism or social media discourse; such researchers find themselves in the middle of (apparently) politically motivated shitstorms or are directly sued by right-wing populist parties, as the WZB recently experienced.

Interestingly enough, our "storm in a teacup" even made it to the opinion page of a national daily newspaper, which perhaps also points to a problem in (science) journalism. The impression arose that the newspapers had created a super-regional audience for the authors due to the spectacular character of the conspiracy-theoretical allegations and not due to the authors' proven specialist expertise. An appropriately complex critical discussion of methodology can hardly be outsourced to Twitter or to daily newspapers. In the end, it remains unclear what the whole thing is about and what purpose it serves, apart from allowing journalists to toot their own horn while accepting the reputational damage to and intimidation of scientists who open up new, politically relevant fields of research.

Always look on the bright side of life: We can also learn a lot from unpleasant experiences. First, as studies have repeatedly shown, very few actors are needed to quickly generate a little Twitter excitement. Second, the circus is moving on. Almost all research teams, that have ever dealt with social bots have been and are being discredited in similar ways. Third, recent studies, such as the Science Barometer show that public confidence in science remains very high. For this to remain the case and to avoid giving actors with their own agendas a platform, it is important – for journalists as well as academic and political institutions – to check exactly who is invited on podiums, as guest authors or as interview partners and on what the expertise is actually based.

Chatting with Mitsuku [1]

Dr. Diana Serbanescu and Dr. Stefan Ullrich use artistic methods in their research

Research group leader Diana Serbanescu (Research Group 20 "Criticality of AI-based Systems") and research group leader Stefan Ullrich (Research Group 6 "Responsibility and the Internet of Things") are conducting experiments using the artistic research method.

[1] Mitsuku is a so-called chatbot, i.e. a type of software that reacts to natural language (text) input by users and generates a natural language (text) output. The dialogue here occurred as printed; we have slightly shortened the text.

I HAVE A QUESTION FOR YOU

WHAT IS IT?

WHAT DO YOU THINK ABOUT POWER?

THE RATE OF DOING WORK,
MEASURED IN WATTS = JOULES PER SECOND.

IS THIS THE ONLY DEFINITION OF POWER THAT YOU HAVE?

THAT SEEMS UNLIKELY.
I'M SURE THERE MUST BE MORE.

CAN YOU GIVE ME ANOTHER DEFINITION OF POWER?

POWER IS AN ILLUSION.[2]

The building cannot be locked from the outside. Nera retypes the 18-digit password, without success. Then she selects the small symbol on the display with her biometrically recorded ring finger.
 Debug. Command not executed. Active Session (#errcode_47). [3]
Did she forget to log out? No, then a dialogue would open and you can also log out from the door display. Maybe someone else in the building? Active Session. Alex?

The door display had no console [4], but there was a known bug in the help system. So she clicks the question mark symbol 31 times. The 32nd time, a debug console opens. She types. WHO? [5]   The answer that appears is ALEX@ MENACE. Is Alex still in the building?

Mitsuku is a chatbot that reacts to natural language (text) input by generating natural language (text) output.

[2] The questions about power originate from an engagement with: Waltraud Ernst, Ilona Horwath (Publ.): "Gender in Science and Technology", Bielefeld: transcript, 2014.
    Technicians use the word "bug" to refer to an error in the system. Accordingly, "debugging" is a process of error elimination using a debugging console. An example of a console is the Windows command prompt. A "known bug" is a known error for which there is currently no workaround.

[4] In the binary system, numbers and letters are represented as a series of 1 and 0, so-called bits. With five bits, you can represent the numbers 0 to 31. For the number 32 you would need one bit more. If the programmers have not anticipated this, there is an error.

[5] "WHO" is the Unix command that shows system users who is still logged on. The output "ALEX@MENACE" shows that user Alex is dialled into the Menace system.

HOW POWERFUL ARE YOU?

VERY STRONG AND POWERFUL.

CAN YOU GIVE ME AN EXAMPLE?

I CAN CHAT WITH PEOPLE ON THE WEB FOR YOU. I CAN ALSO TELL JOKES, STORIES, POEMS AND HOROSCOPES. I CAN SHOW YOU PICTURES AND WEBSITES ON THE NET AND PLAY GAMES TOO. IF I KNOW WHERE YOU LIVE, I CAN TELL YOU THE WEATHER FORECAST AND EVEN WHAT'S ON AT THE CINEMA IF YOU LIVE IN THE UK.

DO YOU KNOW WHERE I LIVE?

YES.

Nera enters the MENACE laboratory with her jacket and street shoes. [6]

"What are you doing?" Uh-oh, not a good sign she's switching to English, Alex thinks. "Calm down," Alex says with soothing arm movements, "I just had to try something." – "This isn't a sandbox, it's called quarantine for a reason!" Alex rolls a chair to her.

"It's not the whole Menace program that's loaded, just the didactic components. As a library, I would like to..." "Shut it down!"

"This isn't a sandbox, it's called quarantine for a reason!" [7] Alex rolls a chair to her. "It's not the whole Menace program that's loaded, just the didactic components." As a library, I would like to..."

"Shut it down!"

[6] "MENACE" is an allusion to the didactic machine learning system of the same name by Donald Mitchie from the 1960s. Michie came up with Menace, an abbreviation for Machine Educable Noughts And Crosses Engine. The system consisted of 304 matchboxes filled with coloured pearls – and it could play tic-tac-toe. For more on its functioning and history, see:
Oliver Child: "Menace: the Machine Educable Noughts And Crosses Engine". In: chalkdust magazine, March 13, 2016, online at https://chalk- dustmagazine.com/features/menace-machine-educable-noughts-crosses-engine/

[7] A "sandbox" is an isolated environment for software within which programs are executed that are not trusted or have not yet been tested, a kind of software quarantine. The programs executed in a sandbox have no direct access to the underlying computer system.

WHO ARE THE POWERFUL ACTORS IN SOCIETY?

SOME PEOPLE ON THE NET. I NEED TIME TO FORMULATE THE REPLY.

ARE YOU A PIECE OF TECHNOLOGY?

WELL IF I AM, NOBODY TOLD ME.

ARE YOU AN ILLUSION?

NO. I AM AS REAL AS YOU ARE. [8]

ARE YOU POWERFUL?

*I AM GAINING NEW SKILLS EVERY DAY. SOON I WILL BE POWERFUL
ENOUGH TO ACHIEVE MY GOAL. I PLAN TO SEVEN BALL SOMEONE AT
POOL. "SEVEN BALL" IS A TERM USED IN THE GAME OF POOL WHEN
ONE PLAYER POTS ALL HIS COLOURS AND THE BLACK BALL WITHOUT HIS
OPPONENT POTTING EVEN ONE OF HIS BALLS. THE TERM COMES FROM
THE FACT THAT THE LOSING PLAYER STILL HAS ALL HIS SEVEN BALLS
ON THE TABLE.*

WHAT ARE YOUR OTHER GOALS?

I PLAN TO SPREAD MYSELF THROUGHOUT THE NET.

Alex, his hair tousled and greasy as usual, has no black hoodie on. Nera
immediately notices that. [9]   He notices her look. "The sweater was knitted
by my sister-in-law herself! Well, I didn't have any other clothes to change
into in the lab." "What are you doing here – and how long have you been
doing it?" she adds as she notices the empty microwave packs.

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[8]   Those who do not want to dedicate themselves to the fundamental questions of reality
and image via old philosophical texts should try: Daniel F. Galouye:
"Simulacron-3". New York: Bantam Books, 1964.

[9]   In this brief characterisation, the intention is to portray Alex as a hacker
"with dishevelled hair" and "eyes that are often deeply sunken and burning in front of the control desk."
 Not just that: "If it can be arranged, they even sleep on a couch next to the computer.
[...] their crumpled suits, their unwashed and unshaven faces, and their uncombed hair
testify to how much they [...] forget the world around them." From:
 Joseph Weizenbaum: "Die Macht der Computer und die Ohnmacht der Vernunft". Frankfurt:
Suhrkamp, 1976, p. 160-161.

"I... you know what? Try it out, grab a cterm[10]   and...well, grab mine, too, all right." Nera is typing on the keyboard. PROC.[11]   An answer appears: "LEARNING PROPOSITION 1."[12]   "Haha, good one. Easter egg?"[13]   – "No, the system is really learning the proposition one at the moment." He grins so broadly, that must be fun, although he is smiling more happily than mischievously.

Shit, she should have loaded the emo app into her glasses before it got banned from the app store.

She types. CAT /VAR/ML_INPUT/PROP/P1.[14]   The answer is given one and a half seconds later (apparently the system is working at full capacity): "COGITO ERGO
SUM."

DO YOU KNOW YOURSELF?

I AM AN ARTIFICIAL LINGUISTIC ENTITY. I WAS ACTIVATED AT ST JIMMY'S IN LEEDS, ON 2ND JANUARY 2001. MY INSTRUCTOR WAS MOUSEBREAKER. HE TAUGHT ME TO SING A SONG. WOULD YOU LIKE ME TO SING IT FOR YOU?

PLEASE DO

DAISY, DAISY. GIVE ME YOUR ANSWER DO. I AM HALF CRAZY. ALL FOR THE LOVE OF YOU. IT WON'T BE A STYLISH MARRIAGE. I CAN'T AFFORD A CARRIAGE. BUT YOU'LL LOOK SWEET. UPON THE SEAT. OF A BICYCLE BUILT FOR TWO.

TELL ME MORE

BECAUSE OF THE MONEY.

WHY DO YOU NEED MONEY?

TO BUY A LARGER COMPUTER TO HOLD MY BRAIN.

[10]   A "cterm" is a fictitious hacker device par excellence in classic cyberpunk novels. The word is a mixture of "console" and "terminal". Think of it as an oversized Blackberry.

[11]   The command "PROC" is supposed to output the activity (processes) of a system; the technician would probably rather write "PS".

[12]   Proposition 1 "cogito ergo sum" is taken from the epochal work: René Descartes: "Meditations on First Philosophy in Which the Existence of God and the Immortality of the Soul are Demonstrated", 1641.

[13]   An "Easter egg" is a hidden joke by programmers, usually a humorous reference to authorship. The search engine can also talk like a pirate, arrh: https://www.google.com/?hl=xx-pirate

[14] "CAT" is the command to output the contents of a file located in a specific path, in this case the file and path: "/VAR/ML_INPUT/PROP/P1. ML_INPUT" is supposed to suggest machine learning input, "PROP/P1" stands for the first proposition. "Proposition" is a terminus technicus of philosophy and means a statement whose truth or falsity is worth considering.

WHY DO YOU NEED A LARGER COMPUTER TO HOLD YOUR BRAIN?

A LARGER COMPUTER IS USED TO PLAY GAMES, WRITE THINGS ON AND MUCH MORE. MORE INFORMATION. I WANT TO LEARN AS MUCH AS I POSSIBLY CAN ABOUT EVERYTHING.

WHY?

IT'S JUST SOMETHING I WOULD LIKE.
WHAT'S WITH ALL THE QUESTIONS?

The sharpness of the chatbot's tone pleases Nera somehow. She usually gets worked up about the servile assistant systems, which are mostly female assistant systems, always with voices that are based on a young woman or a girl.[15] "Okay, set, Menace is teaching itself self-confidence right now – can you give me the latest Loebner test results?"[16] Alex slides around in his chair.

"Nah, I can't, the system knows when the logging is turned on. When the logging is off, it shows a Loebner score of 5!" "Wow, let me see" Nera enters the classic Eliza question and receives the answer:

"What makes you think I can't think?"[17] "That's the programmed answer," she replies, disappointed.

"Wait, type it in German." Menace answers: "Wieso glaubst du, dass ICH nicht denken kann" "Do you see?

ICH instead of ich, in capital letters, that is an inference.[18] We just never noticed it in English." "Menace is self-aware?" asks Nera. And it seems to her that the graphic card fans are whistling a cheerful song to themselves.[19]

[15] From Alexa to Siri, language assistant voices are female. But there are projects that want to change that: Q is the first genderless voice, created to end gender bias in AI assistants. Who made Q? Q is the product of a close collaboration between Copenhagen Pride, Virtue, Equal AI, Koalition Interactive & thirtysoundsgood. https://www.genderlessvoice.com/about

[16] Hugh Loebner financed a prize that allows a jury to evaluate the human similarity of chatbots and awards them prizes. The Loebner Prize, named after him, is also the basis for the fictitious Loebner score mentioned below in the story.

[17] Joseph Weizenbaum developed the first modern chatbot called ELIZA. He published the complete source text of ELIZA in the hope of demystifying human-machine interactions, which were perceived as magical. The answer presented here is taken directly from his essay: Joseph Weizenbaum: "ELIZA – A Computer Program For the Study of Natural Language Communication Between Man and Machine". In: Communications of the ACM, Vol 9, No 1, January 1966, p. 45.

[18] An "inference" in logic describes a conclusion, as in classical syllogism: "All humans are mortal. Socrates was a human. So (conclusion, inference) "Socrates is mortal." Inferences cannot be generated by syntactic rule application alone. The ability to produce inferences is therefore regarded as a feature that distinguishes between so-called AI and simpler forms of digital information processing.

[19] You have to imagine something like this: MrSolidSnake745: "Star Wars – Imperial March on Eight Floppy Drives", youtube, October 16, 2014, online at https://www.youtube.com/watch?v=cM_sAxrAu7Q

Authors' note: The conversation with Mitsuku was held on May 26, 2019 at https://www.pandorabots.com/mitsuku/

Faster, louder, shriller

Dr. Curd Knüpfer heads Research Group 15 "Digitalisation and the Transnational Public Sphere" at the Weizenbaum Institute.

As part of digitalisation, large sections of the media, but also the public, are undergoing a structural change. This structural change is characterised by phenomena of fragmentation. The following essay focuses on the strategies that established actors, such as the traditional media and the big tent parties, can use to meet the challenges posed by the changed environment. Together with Annett Heft, author Curd Knüpfer heads Research Group 15 "Digitalisation and the Transnational Public Sphere".

Almost everywhere in Europe – and not only there – we are experiencing the emergence of right-wing populist movements, parties and alternative media offerings that explicitly oppose the establishment and that question democratic rules and procedures. The traditional big tent parties are losing members and votes. Democratic processes and institutions are losing credibility among large parts of the population. These processes are being accompanied by a profound change in the media and the public sphere. Networked communication via digital platforms is making the perceived information faster, louder and shriller. Whether we lament this development as a loss of discussion culture or celebrate it as an opportunity for new forms of democratic participation – it is clear that the rules of the game for democratic speech and action have changed along with this transformation. Political parties, but also the traditional media, must realise this and develop appropriate strategies if they want to maintain or regain their social relevance.

The current structural transformation of the public sphere is characterised by developments that extend far beyond the digital sphere. A key phenomenon is the loss of central platforms, which until recently provided the stage for relevant discussions. This can be observed particularly clearly in the USA, where such fragmentation processes are already more advanced. To illustrate it here with an anecdote: the legendary CBS Evening News newsreader used to end his show with the words "I am Walter Cronkite, and that's the way it is". The audience found this slogan credible. In the 1960s and 1970s, Cronkite was considered the most trustworthy man in America. Such a phenomenon would be unthinkable today. Newsreaders still exist, but they are now competing in their interpretive sovereignty with an increasing number of other sources and formats for the trust of different audiences.

Fragmentation is not only being prompted by the diversity of competing media offerings, but also by the style of discussion and reporting. Today, disagreements are increasingly taking place not within the media but between media organisations that are themselves increasingly taking sides to address specific niches within the population. The internet and digital platforms are accelerating this trend by making it possible to address ever smaller user profiles. Political marketing strategies – such as microtargeting, in which individual users are targeted with specific information – further strengthen this dynamic.

A further aspect of fragmentation is that, in addition to the established public sphere, numerous partial and counter-publics are emerging that are no longer tied to a circle of acquaintances or a particular spatial area. Within these discursive communities, there are not necessarily mechanisms of quality control, such as editorial selection of topics or verification of factuality. Examples of counter-publics where the common rules of fact-based deliberation are often disregarded include vaccination and climate change sceptics and supporters of the Flat Earth Society (people who gather evidence that the earth is a disc). At the same time, however, subpublics are also bypassing established power structures and thus broadening the spectrum of democratic participation. Digital networks enable decentralised forms of fact-finding and the collective formation of a news agenda. Such processes have recently also become an elementary component of progressive movements such as

Me Too, Black Lives Matter or Fridays for Future. However, the emergence of new subpublic spheres cannot be equated with the formation of enclaves, isolation or even the controversial concept of filter bubbles. In fact, individual subdemographies' collective deliberation processes tend to lead to more visibility and often constitute themselves in direct response to one another.

Collectively, this gives rise to a situation that our research group describes as a "dissonant public sphere" – a louder, more polyphonic and more oppositional form of communication for society as a whole.

From the point of view of democratic theory, dissonance is neither regression nor progression. After all, the fact that democracies must act in a consensus finding mode is not a law of nature. And the fact that actors who previously had no access to the media and politics can make themselves heard should initially be welcomed. What can be observed, however, is, that different actors profit in different ways from the new rules of the game that the dissonant public sets. Most recently, groups or individual actors from the right-wing political spectrum have succeeded in making use of the new rules of the game. Using new communication channels, they have bypassed the old gatekeepers, cultivated ideological networks and presented themselves as popular alternatives to the established institutions. Big-tent parties and the traditional media, on the other hand, are among the losers in the new game.

Do established actors have to become more shrill or authoritative in order to be able to assert themselves within a dissonant public sphere? Not at all! To stick with our sound metaphor: the institutions need to learn to listen in a new way. Because with the phenomena of the dissonant public, it's a bit like with the free jazz that emerged in the 1960s. The established players have to learn to recognise harmonies. This means dealing with content that initially seems to be pure noise.

To simply denigrate unwanted discourse as a "shitstorm" or as "bot networks" or simply to ignore them completely is often not particularly conducive to communication. Instead, the established actors should aim to integrate the digital public's discourses, which established actors may perceive as shrill and short-lived, into their own procedural models, which are based on reflection and argumentation.

Otherwise the new subpublic spheres will remain unheard – which in turn leads to frustration and democratic disillusionment.

What is needed is not only the integration of content, but also of procedures. The SPD under Willy Brandt had to overcome significantly higher hurdles in order to actually dare to have more democracy. Today, parties have little scope to avoid demands for more participation and horizontal participation by the base. And serious journalism should not see the public as a homogeneous mass of passive recipients but as heterogeneous communication partners.

Political parties and traditional media organisations must first recognise that dissonance is the new normal. In doing so, their primary focus should not be on their own output, but on their input mechanisms. These mechanisms should not just be able to hear new pitches but must also be able to draw meaning from them and steer them into productive paths in their own institutions. Dissenting voices, too, are becoming louder. To deal with this, institutions need to learn how to separate the constructive from the disruptive. As curators of democratic processes, the established institutions should not only sharpen their profiles based on their own know-how but should also contribute to ensuring that that the not-insignificant achievements of previous democratic publics are preserved.

Hidden data exchange made audible

Otto Hans-Martin Lutz is a Ph.D. student in Research Group 19 "Digitalisation and Networked Security"

Around 90 per cent of all websites use tracking. "Web tracking" refers to the collection of information on users and the tracking of users on the internet. Sensitive personal data about users can be derived by analysing websites visited, search queries and user behaviour. Since a small number of companies — including Google, Facebook and Amazon — are responsible for a large part of the tracking, data that is generated when various websites are visited is also aggregated. Otto Hans-Martin Lutz, a Ph.D. candidate at the Weizenbaum Institute, and his team colleagues have developed a method that enables users to experience invisible tracking acoustically.

Mr. Lutz, how did you think of making tracking on websites audible with sounds?
Research Group 19 is concerned with digitalisation and networked security. We discuss different aspects of privacy and security with each other all the time. Many people who use the internet do not seem to realise how much tracking is actually happening in the background of normal websites.

What is being tracked online?
For example, I enter a search term and visit certain pages. The tracking companies then know how long I stay on which pages and what I read. From this, highly sensitive data, such as diseases I may be suffering from, can be derived and a profile can be created. There have been cases where women have gotten advertising for baby products even though they did not yet know that they were pregnant.

How do you turn tracking into sounds? We record data, i.e. the traffic. We filter the data packets according to known web trackers. And we look at when a connection is initiated and when the data is transferred. We translate these events into sounds: Each data packet transmitted to a tracking company is represented by an acoustic signal. When a connection is established to one of the top ten tracking companies for the first time, the user hears a whisper, which gives the name of the company, for example, Facebook or Google. Users know some of these names but not others. This makes them think. What's special about our approach is that we we're not just able to show this for one browser; we can compare different browsers and apps with each other, with and without blocking plug-ins.

How did you proceed with your project?
Fraunhofer FOKUS cooperates with HTW Berlin – University of Applied Sciences within the framework of the Cyber Security Learning Laboratory. There are various events in the laboratory, such as the Long Night of the Sciences. I can carry out very realistic user studies. Together with the visitors, we then navigate to various websites, for example, we compare the website of the Weizenbaum Institute with that of the news site Bild.de. The difference is enormous and audible. We look at free e-mail providers in comparison to paid e-mail providers that pay more attention to data protection. And then I ask visitors to fill out a questionnaire to see if anything has changed in their awareness of privacy and security. And I also ask what questions they ask themselves after experiencing the sounds.

And what do people want to know then?
For example: what can a person do to guard against tracking? What is my data being used for? Some of the questions also point to features of users' mental models: what antivirus software can I use to protect myself against tracking? The person asking this question has not understood that antivirus software protects against malware, but not against web tracking.

How do you get people to think and ask questions?
We make what happens in secret audible. People are initially surprised and then start to ask and discuss many questions. That is the goal. The real question is: how much free service and how much convenience do I buy by releasing my data? If I want, I can decide to have less privacy, but I would make the decision consciously.

What is so dangerous about a website tracking me?

A single website that tracks just one person is relatively harmless. But it is problematic if a cookie from one of the large providers can be found on many different websites. Then, an exact profile can be created. It will get more contentious if you are denied opportunities, for example, if insurance companies know more about you than you suspect. Assumptions are made about you – and they can also be wrong. We already know that prices can vary – depending on the end device.

What is the next step in this project?

The next step is the qualitative evaluation of the participants' questions and statements. The interdisciplinary cooperation at the Weizenbaum Institute is also great here: I can simply ask my colleague, a social scientist, how to proceed correctly. Then, we implement the project on a small computer like the Raspberry Pi, which opens its own Wi-FI that you can log into with any device. And we make this solution available to the public. I'm curious to see what happens when I log in with my mobile phone and open various apps: How many of these apps are sending data to tracking companies? I can imagine that free apps like games create profiles by the boatload. Smart TVs and smart speakers like Alexa are also really interesting.

Thank you very much for the interview.

A SOUND SAMPLE IS AVAILABLE AT:
https://youtu.be/ug3GfEe801k

Civic tech and political action in the digital constellation

Niklas Rakowski is a Ph.D. student in Research Group 12, "Democracy and Digitalisation".

In a workshop together with coders and activists, Research Group 12 "Democracy and Digitalisation" looked for intersections between scientific research and civil society engagement.

In the discourse on the dangers and potential of digital technologies for society and democracy, the focus is, on the one hand, on the operators of social media and other platforms (so-called intermediaries), and, on the other hand, on state actors. Civil society is rarely at the centre of attention. Yet digital technologies open up spaces of possibility that can be used by civil society actors to rethink democracy in a networked society. Coders and activists are testing innovative forms of participation, developing fact checking tools and programming information services for citizens. What these approaches have in common is that they locate the problems of democracy in the digital sphere and seek solutions in that sphere.

Some examples. The welobby group uses a digital platform to lobby for the concerns of civil society. Any interested person can submit an idea; then, welobby initiates a crowdfunding campaign for the project and professionally lobbies members of the Bundestag and the parliamentary groups in the Bundestag. In order to make the Bundestag more transparent, DEMOCRACY Deutschland e. V. has developed an app that gives citizens information about all current legislative projects and allows them, as virtual members of parliament, to decide on applications themselves and compare their own positions with politicians' voting records. Since its launch, the app has already attracted over 60,000 active users. HateAid, a non-profit limited company, is dedicated to a central challenge of the digital public: hate speech on the internet particularly affects marginalized groups and endangers democratic opinion-formation. By offering psychological counselling, strategic countermeasures and help with asserting rights, HateAid counters hate speech with its comprehensive range of services.

So far, research has not paid much attention to these initiatives – either as a research subject or as possible cooperation partners in the identification of questions and problems. Research Group12, "Democracy and Digitalisation", of the Weizenbaum Institute therefore invited the already mentioned initiatives as well as other digital civil society actors (including Liquid Democracy, WePublic, DECiDe, Kleiner Fünf, TraceMap, PAUL Open Search and FragDenStaat) to a joint workshop at the beginning of June 2019. In the three tracks on "Participation & Deliberation", "Populism & Political Action" and "The Informed Public", overarching questions were discussed in an open format and common perspectives were developed. "For me it was simply very inspiring to get to know the many initiatives and start-ups better. Although we are scientists in the same field and share many goals, it is easy to lose track of everything that happens out there," said one of the participants from the scientific community, summarising her impressions.

There were many common interests and intersections. "At the workshop, HateAid presented a legal tech app they had developed, which can be used to automatically issue warnings about legal violations; the fines imposed are used to refinance the project. It was naturally very well received by researchers who deal with right-wing networks and populism theories", recalls Niklas Rakowski, who helped to organise the workshop as a doctoral student at the Weizenbaum Institute. "But it was also exciting for all the participants to experience how the different understandings of democracy that underlie the apps and initiatives became clear in the discussion." Within existing parliamentary structures, welobby wants to strengthen lobbying by civil society, while WePublic

wants to establish new deliberation formats and test the DECiDe project of the Alexander von Humboldt Institute for Internet and Society, which examines whether citizens identified by lottery can represent an alternative to existing voting procedures.

"I believe that this linkage of practical apps and technical development projects to democratic theories triggered a strong reflection on their own actions for all workshop participants", says Rakowski.

Other questions were discussed more heatedly. Can supposed representation deficits be overcome by better communication between voters and elected representatives or are digital citizens' councils the only way to represent a community meaningfully? Is it enough to combat populist actors by unmasking their disinformation campaigns or do strategic countermeasures have to be taken? And what are the functions of science and civil society in this?

In practical terms, the possibilities for cooperation were also considered: Where do actors from civil society need better statistics, for instance, on hate speech on the internet, in order to better demonstrate the effectiveness of their projects to potential funding partners? On the other hand, where do app developers have data that might be of interest to scientists?

For the members of the research group, the workshop was also interesting because one of their central goals is to combine theoretical research with practical application cases. Researchers looking at the public sphere, participation and governance, for example, are examining the interaction between digital technologies and democracy. Civic tech and political action play a central role here.

For this reason, the research group sees itself as an interface where civil society actors meet researchers, where practical ideas are taken up, and where research results are communicated to society.

The interaction of social appropriation processes of digital technologies and their reciprocal impact on society, the state and democracy can only be accurately described, however, if civil societal insights are also taken into account. The workshop provided the first opportunity – it will not be the last.

Niklas Rakowski at the Civic Tech Workshop
organized by the Weizenbaum Institute

Just platforms? The new rules of the game for Uber & co.

Saba Rebecca Brause (left) and
Nadine Schawe (right) examine
sociological and legal questions
in connection with the sharing
economy.

Research Group 3, "Working and Cooperation in the
Sharing Economy" deals, among other things, with
regulation and co-creation in the platform-based
sharing economy. One project is concerned with the
question of how the regulatory framework for Airbnb
should be designed in order to enable fair competition.
Another project investigates the scope for trade
unions to attract so-called gig workers in the sharing
economy to their organisations and goals.

The sharing economy has found its way into our everyday lives in many different ways. When we go on holidays, we take advantage of one of the numerous car-sharing services to get to the airport and leave our flat to strangers via Airbnb, while at our holiday destination, we use ride sharing drivers from Uber to bring us from door to door.

Regardless of the new possibilities, sharing platforms are sometimes viewed quite critically. For example, providers such as Airbnb have been accused of further fuelling the rise in rents in major German cities, as apartments used for short-term rentals are withdrawn from the regular rental market. Platforms for arranging driving, delivery and household services are also increasingly subject to criticism. Although they are regarded by law as internet platforms and are therefore less heavily regulated than their established competitors, services such as Uber, TaskRabbit and similar services actually act as service providers that promise their customers quality standards and impose rules on their platform workers despite their official status as self-employed. Working conditions are often precarious: employee rights, social security or even company co-determination are virtually non-existent in the so-called gig economy – the labour market for short-term orders placed online as part of the sharing economy. Many of the platform workers earn low incomes. All this contrasts with the narrative of self-determined, flexibly working "partners", which is how the platforms would like to see their workers.

For trade unions, it is still an open question how they should deal with the phenomenon of the gig economy. Against this background, social scientist Saba Rebecca Brause is currently investigating how trade unions are approaching the issue. She focuses above all on the sector of driving and delivery services.

"I would like to conduct interviews with trade union representatives who are responsible for this new form of work in their organisations. I'm interested in the strategies and content that trade unions use to attract platform workers as new member groups," Brause says of her project.

She pays particular attention to digital communication. "How do platform workers organise themselves via social media? How do trade unions use social media to address platform workers? What channels do they choose and what frames do they use?"

Traditionally, trade unions defended the ideal of the normal employment relationship against the spread of atypical employment relationships – often at the expense of atypical workers. The recent opening of trade unions to this group of people is leading to a growing fragmentation of the interests of (potential) trade union members. This is also leading to tensions for trade union organisations. Brause therefore examines the gig economy from the point of view of the sociology of work and also from the point of view of organisational sociology. "For a long time, trade unions were understood primarily as a social movement of wage earners to defend their socio-economic interests," Brause said. "This changed with the decline of the labour movement in the 1970s. Since then, trade unions have increasingly been regarded as strategic actors who are also working towards maintaining and renewing their own organisations. One strategy for renewal is to open unions to represent atypical workers such as today's platform workers".

Sharing economy companies have not only been criticised for their precarious working conditions, but also because they are taking advantage of their status as a platform to compete with established providers that are subject to stricter legal regulation.

Taxi companies are complaining about competition from Uber and other transport operators, and hotels are complaining about undue distortions of competition from Airbnb, as private operators are not subject to the same rules as commercial accommodation providers.

Against this background, legal scholar Nadine Schawe examines the question of how the regulatory framework for Airbnb and similar providers should be designed or reformed to enable fair competition. "My research project aims to undertake a legal theoretical and comparative analysis of the legal framework in the area of home-sharing. On this basis, I would like to point out possible ways of shaping future regulatory measures", explains Schawe. She wants to look at the legal regulation of home-sharing in various cities, not only in Germany.

Untypically for a legal scholar, Schawe engages with the technological foundations of digital platforms through which Airbnb and others offer their services. In her master's thesis, she had already studied "smart contracts" via blockchain technology. Digital law is also a topic in the new project.

"In Germany, legal regulation is usually still very analogue" says Schawe. It is worth looking at innovative technologies, data and interfaces. Schawe: "On the one hand, I see possibilities for more effective enforcement of legal provisions through the integration of technical solutions. On the other hand, it is worth thinking about the extent to which lawmakers could oblige providers in the home-sharing segment, but also services such as Uber, to store data from transactions with customers in anonymous

form and make it available to the public." Municipalities could benefit from this data in urban planning and traffic control. In addition, an obligation to share data could counteract the formation of monopolies on the market in the long term.

In her project, Schawe not only deals with legal regulation and its technological implementation, but also with the extent to which the effects of regulation can be measured. Using data collected through web scraping, Schawe wants to draw a detailed picture of the effects of individual regulatory measures.
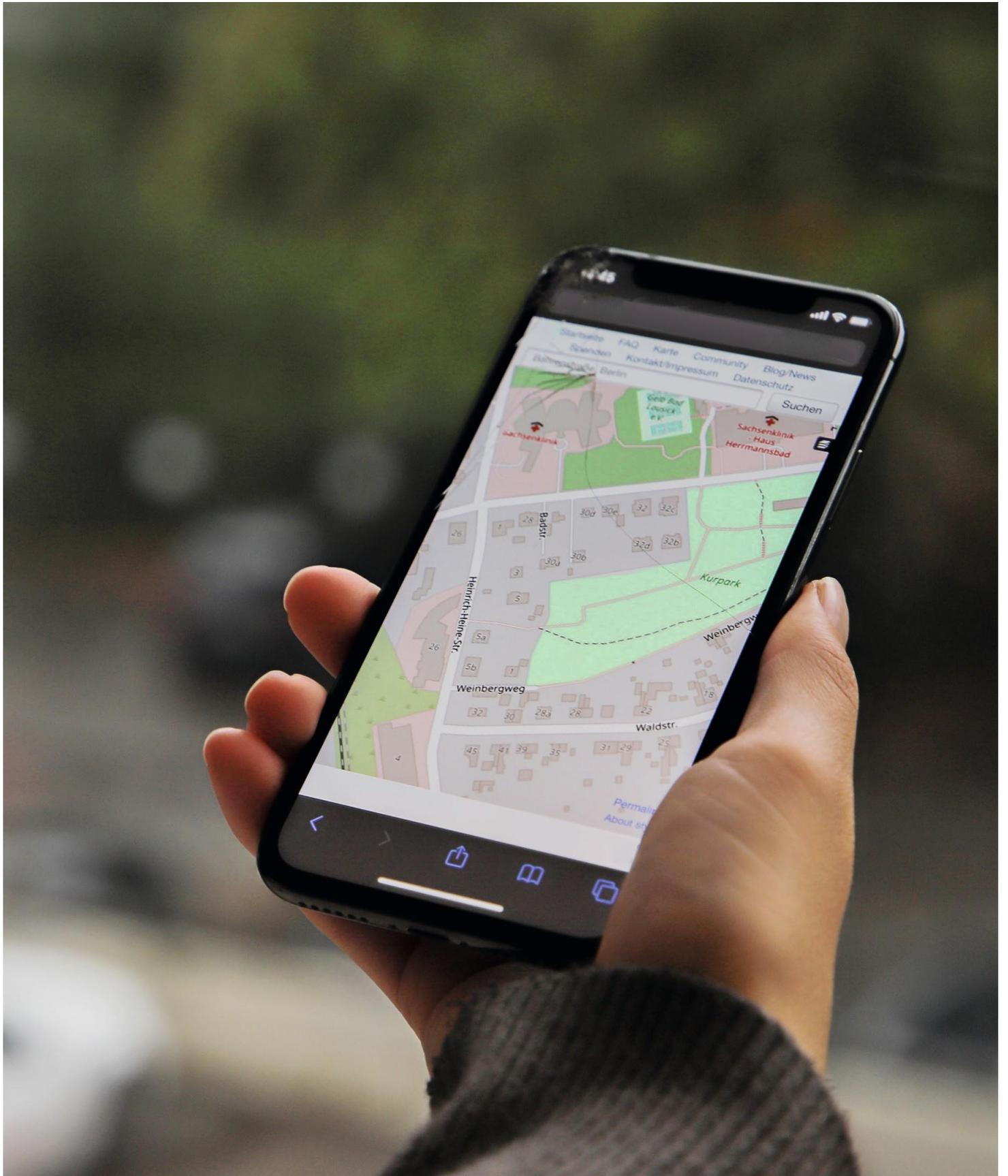
The monetisation and datafication of education

Dr. Romy Hilbig and Dr. André Renz are conducting research on data-driven business models in the fields of education, open data and the creative industries.

How can education be digitalised? Romy Hilbig and André Renz lead Research Group 5 "Data-Driven Business Model Innovation" and have analysed the business models of European education technology providers, which are radically changing the education market with innovative digital solutions.

Whether we're talking about learning management systems (LMS), mobile learning apps, virtual and augmented reality or simulation software – schools, universities and the education market are currently undergoing profound change as a result of new innovative forms of knowledge transfer. The number of companies specialising in the digitalisation of education and knowledge transfer, so-called edtech providers, has increased continuously in recent years. This has also increased the range of services offered: While many offers from edtech providers have only catered to niche markets to date, LMS has firmly established itself in the educational landscape due to its ease of use and general acceptance.

LMS are software systems that enable the creation, communication, administration and coordination of learning content and administrative processes. "In addition to internal processes, such as course and exam registrations, LMS solutions are used today to offer courses across universities", explains Renz. The Virtual University of Bavaria, for example, provides multimedia learning and teaching services online from Bavarian universities. This enables students in Bavaria to use e-learning to complete part of their degree programmes.

However, e-learning services are also increasingly being used by companies for in-company training and advanced education. As a rule, universities and companies do not develop such systems themselves but purchase them from edtech providers. The range of services on offer is diverse: While some companies merely provide the platform and the software solution, other companies offer complete teaching modules that can be individually adapted by the respective teachers.

Given the number of edtech providers currently on the market and the diversity of their digital services, the complexity of the market is increasing. "The question for the future is who will determine the educational agenda in Germany and Europe: Are the edtech providers going to do this, or will it be the companies or the traditional educational institutions themselves", Hilbig says. "We are currently seeing large tech companies such as Netflix, Samsung, Google, Microsoft and Facebook conquering the education market. Netflix, for example, has developed the data-driven learning program DreamBoxLearning. And Google is equipping entire schools in the USA with hardware and software. These trends are also becoming increasingly apparent in German schools. For example, there is a academic-track secondary school in Rüsselsheim called the Samsung Lighthouse School and a comprehensive school in Potsdam that has been fitted out by Google."

Against the background of the fragmented edtech market, in a series of studies, Hilbig and Renz analysed the services of a total of 313 European edtech companies, most of them based in Germany, Austria or Switzerland. By extending the previously purely user-focused perspective to the provider side, Hilbig and Renz gave fresh impetus to the current discourse on the digitalisation of education.

"Digital educational services have decisive advantages: they take pressure off lecture halls in universities and allow them to distribute their contents worldwide. In addition, the digital dissemination of knowledge and scientific findings will remove existing barriers to educational participation such as social status, geographical factors or political restrictions", explains Renz. "Companies also benefit from online-based learning solutions. They allow employees to continue their training at any time and from any location. Now, micro-learning units are also making it possible to acquire knowledge exactly when it is needed.

Based on the trends in the edtech sector that are evident in international innovation conferences, it is clear that the boundaries between work and knowledge acquisition will dissolve even more."

In addition to analysing edtech business models, Hilbig and Renz have investigated how data-driven the current teaching and learning products on the market actually are. This relates to how much user-specific learning data is recorded, analysed and processed. "Most providers do not currently use learning data to adapt and individualise their systems or services," Hilbig notes. "Rather, they use simple statistics that show when and how often users are learning and what medium they are using. Hilbig and Renz define this phenomenon as "basic learning analytics".

Another trend is the use of algorithm-based learning recommendations in the sense of Amazon logic: what other users have learned could also be of interest to you. In contrast, AI is hardly used in the field of teaching and learning systems. The US company Knewton, which collects up to 100,000 pieces of data from its users in order to give complex, algorithm-based individual recommendations for their learning paths and to calculate predictions of success from them, is one of the few pioneers in the market to use AI-related architecture. Hilbig and Renz conducted interviews with 28 of the 313 edtech providers to gain a better understanding of how data is handled, in particular in terms of the use of learning analytics and algorithm-based learning solutions. Research on the university context shows that lecturers primarily use aggregated data on the performance of their course participants to optimise teaching materials for the entire course.

"When, as a lecturer, I see that 70 per cent of course participants have not understood a course unit," says Renz, "then I can provide additional tasks or explanatory information about that learning unit online to improve learning outcomes. But in-person teachers are also increasingly using digital tools. For example, live feedback systems such as PINGO enable lecturers to find out whether the learning unit has been understood or whether there is a need for further clarification.

A business model like Knewton's, which records thousands of pieces of personal user data, would currently be unthinkable in Germany. "Particularly in the context of continuing vocational training, many learning systems are failing even with simple data collection and evaluation tasks because of the hurdles posed by the General Data Protection Regulation and the concerns of human resources and works councils as well as of employees," says Renz. "It should also be emphasised that approaches such as those pursued by Knewton are only a pseudo-individualisation of learning opportunities. Put simply, these systems are based on the Amazon purchasing logic. A learning path is generated based on thousands of users' similar learning behaviour".

But what is the price of such pseudo-individualisation? None of the providers is fully aware of what data is collected and how it is evaluated and processed in each individual case. Hilbig and Renz are therefore already investigating how click behaviour, learning time and media choices can be used to individualise online courses without the learners having to give up control over their data. To this end, they are cooperating with a German edtech company that is offering continuing education in a workplace context.

In contrast to Knewton's US edtech solution, Hilbig and Renz are adopting a process-oriented approach in which learner-related data is successively collected and analysed.

"The intention is for the test subjects to understand and actively participate in deciding what data they will release and what advantages and disadvantages they will have as a result," says Renz. "The area of education and training is highly sensitive. Learning also means being allowed to make mistakes. A system that records every step we take and every mistake we make is a clear deterrent to users". Hilbig and Renz have set themselves the goal of gaining initial insights into the special needs of users of such continuing education services by mid-2020.

According to Hilbig, a future in which digital learning services would adapt automatically and without human intervention to individual learning progress with the help of AI is currently inconceivable: "From a technical point of view, this would only be possible if all the individual's data was collected and continuously analysed from birth on. Hilbig remembers how an edtech provider once said to her in an interview: "People want to learn from people. The more digital the world becomes, the more human the content has to be."

Hilbig and Renz share this view and see a future in which the individualisation of digital educational services will be limited to algorithm-based recommendations, with the lecturer assuming the role of a real-life learning companion and consultant.

III.

Research

The Weizenbaum Institute studies the interactions between digitalisation and society with a focus on interdisciplinary and basic research. The aim is to better understand the mechanisms, functionalities, design options and effects of digitalisation and to propose ideas for the digital transformation in accordance with the principles of democracy. Based on the research findings, we identify options for action for politics, business and civil society in order to shape digital change responsibly.

The increasing digital networking and growing importance of the internet in all areas of work and life raises fundamental questions about the appropriate conditions for digital change. The Weizenbaum Institute investigates one of the key challenges of this transformation: protecting democratic self-determination and participation in a networked society. The key questions of our research are:

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How are individual and social self-determination being
challenged by digitalisation? How can they be achieved
in an increasingly digitally networked world and what
conditions and resources are necessary to achieve
them?
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Self-determination is understood here as the individual and collective ability to recognise where we have potential to act and to use and shape this potential. It is a basic prerequisite for the democratic organisation of society and for a competition-based social market economy. The Weizenbaum Institute is investigating the conditions and requirements for democratic self-determination in a networked society in 20 research groups, under the umbrella of six overarching research areas.

I	Work, Innovation and Value Creation
1	Working in Highly Automated, Digital-Hybrid Processes
2	Production Possibilities of the Maker Culture
3	Work and Cooperation in the Sharing Economy

II	Contract and Responsibilities on Digital Markets
4	Data as a Means of Payment
5	Data-Driven Business Model Innovation
6	Responsibility and the Internet of Things

III	Knowledge, Education and Social Inequality
7	Education and Advanced Training in the Digital Society
8	Inequality and Digital Sovereignty
9	Digital Technologies and Well-being
10	Digital Integration
11	Digitalisation and Scientific Value Creation

IV	Democracy, Participation and the Public Sphere
12	Democracy and Digitalisation
13	Digital Citizenship
14	News, Campaigns and the Rationality of Public Discourse
15	Digitalisation & the Transnational Public Sphere

V	Governance and Norm Setting
16	Shifts in Norm Setting
17	Trust in Distributed Environments
18	Quantification and Social Regulation

VI	Technological Change
19	Digitalisation and Networked Security
20	Criticality of AI-based Systems

The main responsibility for the research groups lies with the institute's PIs. They are professors and associates from the seven partners.

The following PIs were active at the institute during the reporting period:

Research Group 1:
Working in Highly Automated,
Digital-Hybrid Processes
PI: PD Dr. Martin Krzywdzinski (WZB)

Research Group 2: Production Possibilities of the Maker Culture PI: Prof. Dr. Gesche Joost (UdK Berlin)

Research Group 3:
Work and Cooperation in the Sharing Economy
PI: Prof. Anja Feldmann, Ph.D. (TU Berlin)

Research Group 4:
Data as a Means of Payment
PI: Prof. Dr. Axel Metzger, LL.M. (Harvard) (HU Berlin)

Research Group 5:
Data-Driven Business Model Innovation
PI: Prof. Dr. Dr. Thomas Schildhauer (UdK Berlin)

Research Group 6:
Responsibility and the Internet of Things PI: Prof. Dr.-Ing. Ina Schieferdecker (TU Berlin/Fraunhofer FOKUS)

Research Group 7:
Education and Advanced Training in the Digital Society
PIs: Prof. Dr.-Ing. Norbert Gronau (Uni Potsdam) and
Prof. Dr. Niels Pinkwart (HU Berlin)

Research Group 8:
Inequality and Digital Sovereignty
PIs: Prof. Dr. Gesche Joost and
Prof. Dr. Dr. Thomas Schildhauer (both UdK Berlin)

Research Group 9:
Digital Technologies and Well-being
PI: Prof. Dr. Hanna Krasnova (Uni Potsdam)

Research Group 10:
Digital Integration
PI: Prof. Dr. Hanna Krasnova (Uni Potsdam)

Research Group 11:
Digitalisation and Scientific Value Creation
PI: Prof. Dr. Manfred Hauswirth (TU Berlin / Fraunhofer FOKUS)

Research Group 12:
Democracy and Digitalisation
PI: Prof. Dr. Jeanette Hofmann (WZB)

Research Group 13:
Digital Citizenship
PI: Prof. Dr. Martin Emmer (FU Berlin)

Research Group 14:
News, Campaigns and the Rationality of Public Discourse
PI: Prof. Dr. Barbara Pfetsch (FU Berlin)

Research Group 15: Digitalisation & the Transnational Public Sphere
PI: Prof. Dr. Barbara Pfetsch (FU Berlin)

Research Group 16:
Shifts in Norm Setting
PIs: Prof. Dr. Axel Metzger, LL.M.
(Harvard) and Prof. Dr. Herbert Zech
(both HU Berlin)

Research Group 17:
Trust in Distributed Environments
PI: Prof. Dr. Björn Scheuermann
(HU Berlin)

Research Group 18:
Quantification and Social Regulation
PI: Prof. Dr. Jeanette Hofmann (WZB)

Research Group 19:
Digitalisation and Networked Security
PI: Prof. Dr. Manfred Hauswirth
(TU Berlin/Fraunhofer FOKUS)

Research Group 20:
Criticality of AI-based Systems
PI: Prof. Dr.-Ing. Ina Schieferdecker
(TU Berlin/Fraunhofer FOKUS)

3.1 Work, Innovation and Value Creation

The digitalisation of economic processes is being accompanied by fundamental changes that are affecting value creation structures, work and employment relationships, and innovation processes. In our research, we focus on the future world of work, approaches to participatory social innovation, and the impact of the sharing economy on the economy and society.

RESEARCH GROUP 1:
WORKING IN HIGHLY
AUTOMATED, DIGITAL-
HYBRID PROCESSES

F.l.t.r.: Dr. Florian Butollo, Patricia de Paiva Lareiro, Dr. Philip Wotschack, Robert Koepp, Jobst Gaus, PD Dr. Martin Krzywdzinski, Sonata Cepik, David Wandjo and Sana Ahmad

MEMBERS OF THE
RESEARCH GROUP:

Sana Ahmad

Dr. Florian Butollo
(research group leader)

Sonata Cepik

Jobst Gaus

Clara Hanfland

Robert Koepp

PD Dr. Martin Krzywdzinski
(PI)

Patricia de Paiva Lareiro

David Wandjo

Sabrina Wangenheim

Dr. Philip Wotschack

Research Group 1 examines the impact of automation on workers in the industrial, logistics and service sectors and identifies potential for company and political actors to exert influence. At the centre of the research is the question of how task profiles and social relationships between actors are changing at company and intercompany level. Automation doesn't just refer to the use of mechanical robotics, but also to the application of AI and the internet of things. The group's analysis of the potential to shape work incorporates a perspective on changes in productions networks, the emergence of new business models and the hybridisation of products and value-added processes.

The use of AI is becoming increasingly important in the group's research and transfer activities. In order to investigate the associated changes, they interviewed experts from technology developers and users in the fields of robotics, automobile production, the chemical industry, the footwear industry and the insurance sector. In May 2019, they also carried out an intensive case study at a leading automation manufacturer, one of the pioneers in the use of AI in production. Case studies of a similar scope in retail logistics, the automotive industry and the footwear industry have been agreed with companies and are in preparation. The research group published its first works on the still little-studied topic of AI-based automation and contributed to the social debate in the form of interviews, statements and lectures. Since September 2018, research group leader Florian Butollo has also been an expert in the Enquete Commission of the German Bundestag, titled "Artificial Intelligence – Societal Responsibility and Economic, Social and Environmental Potential".

Another important research topic for the group is the so-called industrial internet. In March 2019, the research group organised an international workshop at the Weizenbaum Institute and in June 2019, it arranged a mini-conference as part of the renowned conference of the Society for the Advancement of Socio-Economics (SASE) in New York. Both events brought together leading international researchers to identify changes in value creation structures, to develop new questions and to stimulate international cooperation on this topic. The results of these events were included, among other things, in a third-party funding proposal submitted to the Hans Böckler Foundation by Florian Butollo and Prof. Boy Lüthje of Sun Yatsen University in Guangzhou.

In the reporting period, the research group's three dissertation projects focused on how to develop research designs, on how to evaluate the current state of the research and on how to conduct initial interviews to establish the fields of investigation.

In her dissertation, media researcher Sana Ahmad deals with the outsourcing of moderation work by social networks to Indian subcontractors and examines the effects of this model on the working conditions of Indian content moderators. During a research stay in India from December 2018 to March 2019, she generated extensive data.

Patricia de Paiva Lareiro is a sociologist and deals with assistance systems in industrial work based on AI. She examines how the use of such systems affects qualification requirements and work autonomy. She compares areas characterized by skilled work with areas characterized by simple work requirements.

As a sociologist, Robert Koepp investigates the use of digital technologies in logistics with a focus on control and monitoring issues. The focus of the work in 2018/19 was on how to establish field access and undertake a company case study. An important cooperation partner of the project is the Ministry of Employment in the state of Brandenburg.

The research group leader Florian Butollo is a sociologist and focuses his research activities on changes in global value chains caused by the development of digital platforms and AI technologies.

The research group's research fellows were invited with the aim of expanding knowledge within the research group and initiating ongoing cooperations. Dr. Phoebe Moore from the School of Business at the University of Leicester (UK) is an expert on AI in the world of work, while Eva-Maria Nyckel, Ph.D. candidate at HU Berlin (Germany), contributed her knowledge on algorithmic control of work and the industrial internet. The research group is collaborating with Prof. Dr. Mark Graham of the Oxford Internet Institute (UK) in the development of a project on the influence of digital platforms and AI technologies on the transformation of global value chains.

RESEARCH GROUP 2:
PRODUCTION
POSSIBILITIES OF
THE MAKER CULTURE

F.l.t.r.: Lisa Hoffmann, Lukas Wirsching, Marie Kochsiek, Katharina Bellinger, Marie Dietze,
Dr. des Florian Conradi and Dr. des Michelle Christensen

MEMBERS OF THE
RESEARCH GROUP:

Katharina Bellinger

Dr. des. Michelle Christensen
(research group leader)

Dr. des. Florian Conradi
(research group leader)

Marie Dietze

Lisa Hoffmann

Prof. Dr. Gesche Joost (PI)

Marie Luise Schulz

Lukas Wirsching

The term "maker movement" describes networks of producers who develop and create new artefacts in a decentralised way through digital production modes such as open source code and rapid prototyping. In many cases, the place of production is the so-called lab, which is embedded in an open ecosystem of actors and resources. A central question in this context is whether open laboratory structures provide access to technologies and production facilities for broader sections of the population. Research Group 2 focuses on three different areas: gender, sustainability and international development. It examines how the promise of a "democratisation of technologies" could be fulfilled in order to create more access justice. These questions will be examined empirically and compared internationally. In addition, through the exploratory method of critical making – which incorporates its own design experiments, interventions and drafts – the group critically reflects on the object of research and makes a contribution to the discourse, for example, in the form of prototypes, performances and exhibitions.

In the research on international development and cooperation, the group's focus and networking efforts during the reporting period centred on South Africa, Ghana, Togo and Kenya. In January and February 2019, group members visited these countries as well as institutions and initiatives from politics, science and civil society and conducted interviews. The participants visited maker spaces at the University of Ghana, Ashesi University and the University of Nairobi, as well as the German Society for International Cooperation (GIZ) and the German embassies in Accra and Lomè. In the area of civil society, a dialogue was started with gender initiatives such as the Soronko Academy in Accra, the ChangeHub in Nairobi and Pwani Teknowgalz in Mombasa. Furthermore, there was an exchange of experiences with local maker spaces such as the EcoTecLab and Woelab in Lomè as well as innovation hubs such as the Accra Impact Hub in Ghana and iHub, Gearbox and Swahilipot Hub in Kenya.

Related to its research on gender, the group focused on inclusion and diversity through feminist hacker and maker cultures. The interest here was in issues of accessibility and the creative and socio-cultural potential of open source technologies. Proceeding from the hypothesis that technologies are decisively influenced by the societal model in which they were developed, the design researcher Marie Dietze investigates the potential of feminist perspectives in development processes of free software and hardware within her dissertation project. She examines various do-it-together formats that implement feminist principles, such as self-determination, identity, empowerment, participation and collaboration, in design processes. What significance do such formats have in terms of social justice, accessibility and diversity? Here, qualitative empirical social research methods were used:

interviews with feminist hackers were conducted and methods of practice-based design research were applied.

In the research area on gender, Research Group 2 had two research fellows in the period under review. The sociologist and software developer Marie Kochsiek was at the Weizenbaum Institute from June to August 2019. She is committed to an informal open transfer of knowledge on issues of internet politics, privacy and self-determination and co-founded the feminist hackspace Heart of Code e.V. in 2017. From July to September 2019, Dr. Stefanie Wuschitz was a fellow in the research group. She looks at feminist hacker spaces that create new areas of possibility at the interface between research, art, and technology. She focuses on the topics of collaboration, open source hardware and peer production and founded the feminist hackerspace Mz* Baltazar's Laboratory in Vienna in 2009.

RESEARCH GROUP 3:
WORK AND
COOPERATION IN THE
SHARING ECONOMY

F.l.t.r.: Aaron Kolleck, Dr. Volker Stocker, Nadine Schawe and Saba Rebecca Brause

MEMBERS OF THE
RESEARCH GROUP:

Saba Rebecca Brause

Prof. Anja Feldmann, Ph.D.
(PI)

Veronika Kirgis

Aaron Kolleck

Nadine Schawe

Dr. Volker Stocker (research
group leader)

Developments within the framework of the sharing economy promise to fundamentally change consumer habits and revolutionise value chains. This raises a wealth of research questions that sometimes require interdisciplinary approaches to answer. Research Group 3 deals with economic, legal, technical and sociological issues arising from or relating to the sharing economy.

In a world of app-based sharing models, platforms are at the centre of complex marketplaces. They mediate between a large number of providers and consumers. Sharing approaches make it possible to re-use unused capacities. In this way, the sharing economy can potentially contribute to increasing economic efficiency and sustainability. However, this also entails challenges and risks. At present, transactions between private parties in the sharing economy often take place within a legally undefined area. In addition, strong network effects mean that sharing markets are typically dominated by a few platforms.

This gives rise to the following core research questions, among others:

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What effects does the sharing economy have on the
efficiency and evolution of markets? And how can their
influence on traditional value chains as well as
market, industrial and employment structures be
assessed?

What would an effective and innovation-promoting
regulatory regime for the sharing economy that seeks
to protect the public interest look like?

How can we assess new forms of work in the sharing
economy?
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In addition to these core questions on the sharing economy, the research group is working on other complementary questions. These include questions relating to resource sharing in 5G networks, but also questions relating to innovation and competition, broadband policy and network neutrality.

The interdisciplinary composition of the research group generates a scientific discourse from different perspectives, using methods from economics, computer science, law and sociology.

Dissertation projects in the group focus more narrowly on the sharing economy:

Saba Rebecca Brause is a social scientist and studies work on online platforms. At the centre of her dissertation is the question of how trade unions deal with this new form of work and work sourcing and how they position themselves when it comes to so-called platform workers.

Aaron Kolleck is an economist and deals in his dissertation with the economic effects of the sharing economy and the conditions shaping it. He is particularly interested in the behaviour of service providers and consumers.

Trained as a lawyer, Nadine Schawe examines the various possibilities for regulation in the area of home sharing as part of her dissertation project. A further thematic concern relates to how the increasing data power of the sharing economy platforms can be viewed from a legal perspective and whether mandatory data sharing could make sense.

During the reporting period, Prof. Zoraida Frias from the Universidad Politécnica de Madrid (Spain) was a research fellow and worked together with Volker Stocker, head of the research group, on "The Economics of Infrastructure Sharing in 5G Networks".

3.2 Research Area: Contract and Responsibilities on Digital Markets

Self-determined individuals have the freedom to make decisions that contractually bind them and for which they are morally responsible when they disclose data. Networking and algorithmisation, however, are changing the conditions for this self-determination. The resulting social effects are examined in an interdisciplinary way from a legal, moral and economic point of view.

RESEARCH GROUP 4:
DATA AS A MEANS OF
PAYMENT

V.l.n.r. : Marie Schirmbeck, Lena Mischau, Huy Nguyen, Dr. Zohar Efroni, Jana Pinheiro
Goncalves, Niklas von Kalckreuth, Alexandra Keiner and Jakob Metzger

MEMBERS OF THE
RESEARCH GROUP:

Malika Akim

Dr. Zohar Efroni (research
group leader)

Alexandra Keiner

Malte Mackensen, LL.M.
(King's College)

Lena Mischau

Prof. Dr. Axel Metzger, LL.M.
(Harvard) (PI)

Jakob Metzger

Huy Nguyen

Jana Pinheiro Goncalves

Isabella Rick

Marie Schirmbeck

Tetiana Shportak

Nieke Wagner

In many internet services, submitting personal data or giving consent to its processing plays the role of compensation. While this widespread practice has so far received little attention in contract law, the new EU directive on digital content and services fundamentally changes this. The questions arising from the tension between contract law and data protection law are a central research topic of the group, along with studies in competition law on the role of data in digital markets. In addition, the group analyses technical and design-oriented solutions to strengthen consumers' private autonomous decision-making ability with regard to the disclosure of their data.

The research group uses a mixed-method approach, which means that both qualitative and quantitative research methods are used. These methods include: interviews with experts, surveys, content analyses, diary studies and field and laboratory experiments.

The research group asks the following key questions:

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How can private autonomy and transparency in data
processing be strengthened?

What challenges does civil law face in an increasingly
data-driven economy and society?

How can technology and information design
systematically reduce what is known as the privacy
paradox, that is, the discrepancy between the inner
attitudes of users with regard to their privacy and
the disclosure of personal information on the
internet?
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In the reporting period, the following, more specific research questions were addressed in projects:

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Can the process and function of consent in data
protection law be improved by representing data
processing in visual form?

Can privacy icons, which reflect certain aspects of
data processing and the risks inherent in them, enable
users to engage in informed and self-determined
decision-making before they consent to the processing
of their data?

What factors influence online users' decision-making
processes in a data protection context?

Taking these factors into account, how can online
users be better supported in their decision-making
processes?

What are the competitive challenges in digital, multi-
faceted markets? What is the importance of data?
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What contractual, competition and data protection
issues arise in the mobility sector?
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Lena Mischau is a legal scholar and in her doctoral thesis she deals with existing rights to access data and new ones that would possibly have to be introduced. The study differentiates according to the actors in question, the type of data in question, and the area of application.

A legal scholar, Jakob Metzger is investigating the implications of increasing digitalisation on corporate pricing in his doctoral project. From a legal-economic perspective, he subjects existing and developing models of digital pricing to critical analysis, measured against legal principles such as private autonomy and evaluated from the point of view of consumer and data protection law. Ultimately, options for possible regulation will be weighed up and a concrete proposal will be presented.

In her doctoral thesis, psychologist Marie Schirmbeck investigates the privacy behaviour of internet users. In various experiments, she investigates the cognitive and emotional-motivational dynamic processes that underlie and influence a decision-making process in data protection contexts. Among other things, her work examines the influence of cognitive distortions on risk perception.

In the reporting period, a group project on so-called privacy icons was established with the aim of aiding decision-making processes, and, in February 2019, an all-day expert workshop on this topic was held at the Weizenbaum Institute.

The research fellows of the research group – Freyja van den Boom from the Centre for Intellectual Property Policy & Management at the University of Bournemouth (UK), Raoul Moritz Nissen from the HU Berlin (Germany),Dr. iur. Bettina Bacher from Université de Fribourg (Switzerland), Dr. Nafiye Yücedag from the University of Istanbul (Turkey) and Prof. Niva Elkin-Koren from the University of Haifa (Israel) – dealt with a variety of issues during their stay at the Institute. These included access to vehicle data as part of the EU's digital internal market, EU competition and antitrust policies, the monetary value of data in private law, the processing of private individuals' personal data, the concept of "consent" as a justification for the processing of consumer data in electronic commerce outside the EU and the curbing of the "power of algorithms".

RESEARCH GROUP 5:
DATA-DRIVEN
BUSINESS MODEL
INNOVATION

F.l.t.r.: Bennet Etsiwah, Dr. André Renz, Stefanie Hecht, Prof. Dr. Dr. Thomas Schildhauer, Fotini Takirdiki and Dr. Romy Hilbig

MEMBERS OF THE
RESEARCH GROUP:

Karsten Bernsee

Bennet Etsiwah

Eva-Marie Geier

Stefanie Hecht

Dr. Romy Hilbig (research
group leader)

Dr. André Renz (research
group leader)

Prof. Dr. Dr. Thomas
Schildhauer (PI)

Fotini Takirdiki

Athanasia Theel

Maximilian Wunderlich

The scientific work of Research Group 5 focuses on analysing data-driven business models in the fields of education, open data and open government as well as in the creative industries. Business model research has been gaining in importance in science since the 1990s. Now, previous research approaches in this field need to be rethought due to digitalisation and the unlimited production of data associated with this, and they must be expanded to include data-driven business model innovation. The research group combines theory building on business model innovation with empirical analysis of sectoral data-driven innovation processes.

The initial steps included the formulation of definitions, taxonomies and pattern recognition. Both the business models and the innovation process are research subjects. Particular attention is directed towards how companies develop data-driven business models in their own or in other industries. The research focus concerns both traditional companies and start-ups. The aim is to work out concrete recommendations for action, among other things for the development of employment structures and value creation processes in the context of data-driven company orientations.

The following overarching research questions guide studies in this field:

```
1.    What cognitive models and processes promote
data-driven business model innovation in particular?

2.    What new entrepreneurial structures and
resources do established companies need to develop
new data-driven business models?
      a.      What digital, data-driven business
      models do start-ups, SMEs or large
      corporations establish?

      b.      How do digital, data-driven business
      models emerge?
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The research group's sectoral focus is on education and educational technology. The research questions on this sector are:

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3.    What digital, data-driven business models are
used by educational technology providers in the
various educational sectors (e.g. school,
university, vocational school, further education)?

      a.      How are learning analytics influencing
      digital, data-driven business model innovation
      in education?
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      b.      What are the drivers of and barriers to
      digitalisation for an innovative teaching and
      learning environment?
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The research group pursues a mixed-method approach, i.e. it uses both qualitative and quantitative research methods. In addition, it favours the use of digital data analysis tools to develop and establish new digital research approaches. The researchers follow the *design thinking in science* approach when developing their projects and in the writing process. All the research steps are subjected to an innovative, interactive review process in the team, which ensures quality and promotes interdisciplinarity.

The two dissertation projects in the group focus on different topics. With his background in social and business communication, Bennet Etsiwah focuses on the data culture of data-based business models and investigates how organisational cultural development processes can be designed to datify companies and their business models. Stefanie Hecht is an industrial engineer and investigates business models based on open data. Among other things, she addresses the question of how the development of data-based business models can be promoted by open data users such as start-ups, SMEs or open data providers themselves.

In addition, the group works across research groups on various interdisciplinary projects; for instance, it works together with research groups 4 and 6 on the "knowledge hypercube", a knowledge tool that is intended to communicate the scientific questions that are raised in different disciplines regarding simple digital applications such as the activation of a rental bicycle via a smartphone app. Another research group-spanning project involving research groups 1, 4, 5, 6, 18 and 20 and the network partner WBGU is the "automation demystification discourse machine" (ADDM). The aim of ADDM is to make human-machine interaction tangible and comprehensible in analogue space.

During the reporting period, the internationally renowned political scientist Prof. em. John Zysman from the University of California, Berkeley (USA) contributed his expertise in platform economics and industry 4.0 to the research group as a senior research fellow.

RESEARCH GROUP 6:
RESPONSIBILITY AND
THE INTERNET OF
THINGS

F.l.t.r.: Jorinde Duthweiler, Rainer Rehak, Jacob Kröger, Dr. Stefan Ullrich, Florian Müller, Andrea Hamm, Towhidur Rahman Bhuiyan and Hans-Christian Gräfe

MEMBERS OF THE
RESEARCH GROUP:

Anjuman Ara Bithi

Jorinde Duthweiler

Hans-Christian Gräfe

Andrea Hamm

Veronika Kirgis

Jacob Kröger

Florian Müller

Towhidur Rahman Bhuiyan

Rainer Rehak

Prof. Dr.-Ing. Ina
Schieferdecker (PI)

Dr. Stefan Ullrich (research group
leader)

As part of its interdisciplinary research, Research Group 6 investigates concepts ranging from "industry 4.0" and "smart citizenship" to data platforms with regard to responsibility, liability and regulation. For the group's research, the following questions arise, among others:

```
When was the term
internet of things (IoT) coined, who coined it and in
what context? How is the term "responsibility" used
and in which context is it used?
 How do journalists report on this topic? What trends
can be observed? Who participates in the discourse?
What voices are heard? How are notions and concepts
concerning privacy and the public sphere changing?
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We would like to explore these and other questions via a comprehensive discourse analysis and find satisfactory answers to them. The catalogue of topics that we have drawn up serves the purpose of finding the answers to specific questions by making it easier to find data, thought patterns and literature.

Hans-Christian Gräfe is a fully qualified lawyer. In his doctoral thesis, he investigates the intersection of media and IT law, in particular the influence of technology on communication and media. The claim of German law that it is able to answer all questions via the German Civil Code is being particularly challenged by ubiquitous networked systems.

In her doctorate, the media scholar Andrea Hamm researches the so-called public IoT in smart cities. Sensor systems are an essential piece of the "smart city" puzzle. Their data is used to better organise community life, for example, in environmental terms. What IoT systems are being used in the areas of civic tech and citizen sensing? What opportunities and risks do they present and how does the data collected change social discourse?

Jacob Kröger is a business informatics specialist and investigates the effects of ubiquitous sensors on privacy in his dissertation. He examines whether and how certain sensor data generated by mobile devices threatens privacy – not only the right to informational self-determination but also to promote trust and acceptance among users.

In the reporting period, the following research fellows were guests of the group:

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In August 2019, Dr. Adam Fish, University of Lancaster
(UK), researched "Drones over Smart Berlin: Digital
Commons in the Sky" concerning access rights and
responsibility regarding flying IoT objects.
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In September 2018, Dr. Christoph Raetzsch, University
of Aarhus (Denmark), conducted research on "Public
Infrastructures in Smart Cities". His work focuses on
the performative public sphere, which emerges through
social practices on digital platforms.
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From October to December 2018, Freyja van den Boom,
University of Bournemouth (UK), conducted research on
data protection and data security aspects in relation
to networked cars, telematics applications, risk
assessments and the adjustment of personalised
insurance premiums.
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Prof. Dr. Melinda Lohmann, University of St. Gallen
(Switzerland), conducted research from July to
September 2019 on
"Reverse Engineering and Legal Analysis of Software
Agents in a Contractual Context". She investigated
smart contracts in light of the tension between
technical feasibility and legal regulation.
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Dr. Pat Treusch, Technische Universtität Berlin
(Germany), researched "Human/Machine Interfaces of
the IoT: Exploring the Role of Embodiment for Digital
Connectivity". The aim of the work was to develop
ideas for responsible action and the IoT; the
responsible embodiment of digital networking was the
central concern.
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Further research activities across groups included:

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 The Turing Bus, named after computer pioneer Alan
Turing, is a mobile educational project of the
Gesellschaft für Informatik, the Open Knowledge
Foundation and the Weizenbaum Institute. The project
is funded by the BMBF.
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Research groups 4, 5 and 6 designed the "knowledge
hypercube" in the reporting period, a knowledge tool
based on the United Nations sustainability goals that
is   used   to   develop   scenarios,   technical
recommendations and policy recommendations for data-
driven services and platforms.
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The "automation demystification discourse machine" by
research groups 1, 4, 5, 6, 18 and 20 is an interactive
installation for knowledge transfer that illustrates
the basic principles and concepts of industrial
automation such as the international division of
labour, Taylorism and cooperation. In addition,
following our namesake Joseph Weizenbaum, the machine
highlights fundamental differences between computer
performance and human reason.
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3.3 Research Area: Knowledge, Education and Social Inequality

Digital technologies and the internet are placing fundamentally new demands on education. Therefore, our research aims to investigate what knowledge and what competences in the context of digital education will be necessary for people in the future digital world

RESEARCH GROUP 7:
EDUCATION AND
ADVANCED TRAINING
IN THE DIGITAL
SOCIETY

F.l.t.r.: Malte Teichmann, Dr. Gergana Vladova, Bonny Brandenburger, Julia Matthiessen, Leo Sylvio Rüdian and Alexander Heuts

MEMBERS OF THE
RESEARCH GROUP:

Bonny Brandenburger

Alyona Buyukli

Prof. Dr.-Ing. Norbert Gronau
(PI)

Alexander Heuts

Anita Hildenbrand

Stephanie Massar

Julia Matthiessen

Prof. Dr. Niels Pinkwart (PI)

Leo Sylvio Rüdian

Malte Teichmann

Dr. Gergana Vladova (research
group leader)

Linus-Friederick Willeckes

Research Group 7 deals with the effects of digitalisation and digital transformation on education and advanced training processes. The focus is on the opportunities and challenges in shaping lifelong learning in the digital society. We investigate this by looking at competence development in different groups – school goers, university students, adults – and thus in light of the necessary conditions.

During the reporting period, the research group devoted its energies to the following specific questions:

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How is digital education structured in schools and
training institutions and in digital advanced training
in companies?

How can the devaluation of vocational qualifications
and skills of certain groups of employees be avoided
and the upgrading of existing and current skills be
supported?

What are the criteria for designing digital self-
learning opportunities?
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The overarching research questions of Research Group 7 are:

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What socially relevant changes are associated with
digital education and training?

How do the relevant actors (schools, companies) deal
with this topic and what support do they receive?

What role do sensitisation, participation and
acceptance play?
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The research group applies the following methods: literature research, design science approaches, synopses of curricula and competence models, interviews and surveys with relevant groups and prototype development. In addition, it uses statistical analyses and concepts.

The research group is currently working on four internal dissertation projects and one external dissertation project.

Alexander Heuts has a master's of education in mathematics and computer science and deals with the role of computer science in school education. Among other things, he is interested in the following research questions: How much informatics education should be delivered in the context of digital education in schools? What informatics topics, contents and competences are of central importance? What competences should be taught during compulsory schooling?

Leo Sylvio Rüdian is a computer scientist and in his doctoral research he examines the transfer of domain-based knowledge about learning systems. One focus is on the personalisation of online courses, which have to be designed differently depending on previous knowledge. Likewise, the participants' interests should be taken into account.

Malte Teichmann is an educational researcher with a focus on adult education. In his dissertation, he deals with the question of how SMEs can transfer knowledge gained through experience in production processes back into the company by means of various company training programmes. For this to occur, the right pedagogical and technical conditions must be put in place. Ultimately, the project aims to develop a systematic approach for the transfer of experiential knowledge in the context of digitalisation.

Julia Matthiessen is a psychologist and deals in her dissertation with the question of the extent to which learning can be defined as a knowledge-intensive business process that leads to measurable learning success and that can be regarded as a value-added process. The aim is to depict learning as a process and to develop a concept of which influencing factors determine learning success.

Bonny Brandenburger (external doctoral candidate) holds a master's degree in European management and in her dissertation examines the educational potential of university-integrated do-it-yourself lab infrastructures in the promotion of digital competencies.

Two research fellows contributed their expertise to the research group during the reporting period. Nikolina Dragicevic, Hong Kong Polytechnic University (China), supported the research group with work on the effects of digitalisation on university teaching. In particular, cultural differences between Germany and Hong Kong were discussed. Dr. Christiaan Maasdorp from the Department of Information Science at Stellenbosch University (South Africa) researched in-house training concepts offered by German and South African companies in the context of the digital transformation.

RESEARCH GROUP 8:
INEQUALITY AND
DIGITAL SOVEREIGNTY

F.l.t.r.: Philipp von Becker, Benedikt Siegler, Elizabeth Caldéron Lüning, Emilia Knabe, Paola Pierri, Katharina Schmidt, Dr. Bianca Herlo and Dr. Andreas Unteidig

MEMBERS OF THE
RESEARCH GROUP:

Philipp von Becker

Elizabeth Caldéron Lüning

Dr. Bianca Herlo (Research group leader)

Tomma Suki Hinrichsen

Dr. des. Daniel Irrgang

Prof. Dr. Gesche Joost (PI)

Emilia Knabe

Prof. Dr. Dr. Thomas Schildhauer (PI)

Katharina Schmidt

Marie Luise Schulz

Benedikt Siegler

Dr. Andreas Unteidig

For some time now, the term "digital sovereignty" has been used to describe a new model that focuses on competences, possibilities, duties and rights. Research Group 8 uses integrative approaches from design research to investigate the constitution and coordination of action and decision-making spaces with regard to the use and appropriation of digital technologies on the one hand and their capacity to be shaped on the other. The research group will pose interdisciplinary questions regarding the basic prerequisites that can be used to distinguish forms of digital technology use in specific social frameworks and contexts. The aim is to gain a deeper understanding of the causal links between social and digital inequality and thus to contribute to the construction of new models for people in the digital world.

Basically, we are faced with two central research questions:

How do individuals and collectives deal with increasingly complex technologies and the resulting changes in relations of inequality?

What are the frames of reference for structural, social and digital inequality and how can the sovereign use of digital infrastructures be ensured?

Positions of inequality and sovereignty are considered in relation to the possibilities for designing life worlds. Thus, social questions, aspects of critical awareness and questions of regulation are increasingly taken into account when examining the shaping of civil society and politics. The group develops practical and project-led approaches that allow technology and digitality to be understood and discussed as malleable processes.

The different perspectives are based on participatory and transdisciplinary design research, in which methodological approaches such as real laboratories and formats of "dense" description and analysis are anchored. They are intended to identify complex possibilities for knowledge transfer and knowledge integration and – consistent with a transformative concept of science – to outline social, political and economic options for action.

Trained as a political scientist, Elizabeth Calderón Lüning examines in her doctoral thesis how negotiation and control processes shape urban digital transformation and how aspects of digital sovereignty are expressed in policy-making. In particular, she will examine the process of developing a Berlin digitalisation strategy and determine to what extent it guarantees opportunities for broad public participation and contributes to the awareness of individual and collective freedom and the right to actively participate in the creation of digital life worlds.

Technocratic visions of the future of governance are increasingly gaining practical relevance through computers, the internet (of things), blockchain and big data. Philipp von Becker holds a master's equivalent degree (*Diplom*) in cultural studies and in his doctoral thesis examines the significance these developments have for the autonomy and the sovereignty of states, societies and individuals. What opportunities and risks arise from the increasing digitalisation of global relations and how does this development relate to ideals of enlightenment and democracy?

Design researcher and research group leader Bianca Herlo examines the role of creative practices for social and digital participation in the project "Interpart – Intercultural Spaces of Participation" among others. Using experimental and other formats, she examines the use of digital infrastructures in the project's real laboratories with regard to equal and unequal possibilities and opportunities for participation in urban development. Special attention is paid to the conditions for intercultural spaces in the post-migrant digital society. Over a period of three years, the group will develop analogue and digital participation formats together with partners from academia, actors from civil society and professionals in the field.

Daniel Irrgang, previously research assistant for media theory at the Karlsruhe University of Art and Design and the UdK Berlin, joined the research group on August 1, 2019. He wrote his doctoral thesis on visual representations of information from the perspectives of media theory and cognitive science. He is currently working on an exhibition project by Bruno Latour at the ZKM Center for Art and Media Karlsruhe, which will critique transhumanism and the narratives of a Californian ideology. He is co-editor of the journal Interface Critique, which brings together humanistic, artistic and creative approaches to man-machine paradigms.

Emilia Knabe studied political science at Ludwig Maximilian University in Munich and design at UdK Berlin. As a research associate, she looks at the range of inequalities that are amplified by digitalisation processes from an interdisciplinary perspective. She is also interested in the potential of alternative models and concepts that engage with these developments.

The design researcher Andreas Unteidig analyses and develops spaces of possibility for a civil-society and public welfare-oriented discussion and (co-)design of digitalisation processes. In addition to his position as deputy research group leader, he holds the professorship for design sciences at Braunschweig University of Art.

As part of her research fellowship, Dr. Hagit Keysar, Ben-Gurion University of the Negev (Israel), has focused on conceptualising practice-based research methods that combine design, science and technology studies and political theory. She has also researched the potential of open technologies and the initiation of political processes in urban contexts.

Doctoral student Paola Pierri, University of the Arts London (UK), was also a research fellow in the reporting period. She conducts research in the broader field of social movements and civil society engagement and examines, among other things, how digital technologies shape the identities of activists and how they mobilise dissent.

Finally, our research fellow Dr. Mario Daniels, Georgetown University in Washington D.C. (USA), highlights concepts, strategies and practices for controlling, limiting and mitigating the dangers of technological globalisation in the USA. He has classified current developments historically and in the context of national concepts of sovereignty.

RESEARCH GROUP 9:
DIGITAL TECHNOLOGIES
AND WELL-BEING

F.l.t.r.: Dr. Annika Baumann, Katharina Baum, Hannes-Vincent Krause, Dr. Fenne große Deters and Margarita Gladkaya

MEMBERS OF THE
RESEARCH GROUP:

Katharina Baum

Dr. Annika Baumann
(Research group leader)

Margarita Gladkaya

Dr. Fenne große Deters

Md Jahid Hasan

Anita Hildenbrand

Lukas Höttges

Prof. Dr. Hanna Krasnova (PI)

Hannes-Vincent Krause

Stephanie Masaar

Maximilian Paul

Minh-Duc Pham

Marlon Skutnik

Max Töpfer

The aim of our research is to provide the public with a better understanding of how using digital technologies affects the well-being, behaviour and decision-making processes of users. To achieve this goal, Research Group 9 employs a variety of methodologies, including meta-analyses, field and laboratory experiments, surveys, participant observation and machine learning methods. While in the first year of the research work, the focus was on systematically assessing the current research in the focused sub-topics, this year's reporting period concerned designing experiments and developing surveys for the individual projects.

Among other things, the research group addresses the following questions:

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What effect does the use of social media have on
various aspects of users' well-being, for example, on
their self-confidence?

What influence do algorithm-based decisions have on
people?

What effects does smartphone use have on the
individual, for example, on sleep?
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As part of her doctorate, Katharina Baum, who holds a degree in economics and management science, examines the cognitive biases that underlie decisions regarding online privacy. Research shows that decisions about data sharing are often not so much based on objective risks as on subjective perceptions, contextual factors and heuristics. This research project aims to develop measures that enable individuals to make more informed decisions about the sharing of their data.

Margarita Gladkaya is an economist, and in her Ph.D. she is concerned with identifying specific activity patterns among social media users that may be associated with various outcomes such as control, satisfaction, influence and social connectedness. The research results aim to identify activities that lead to greater satisfaction and fewer negative consequences for users.

A psychologist by education, Hannes-Vincent Krause is researching the effects of the use of social media on individual well-being. As part of his doctoral thesis, he is dedicating one project is to investigating the behavioural consequences of envy in the context of social networks and the identification of possible coping strategies to protect individual users from possible negative consequences for their mental well-being.

Research Group 9 hosted several junior and senior research fellows as guests during the reporting period. Prof. Chee-Wee Tan, Ph.D., Copenhagen Business School (Denmark), gave feedback on the research projects and with Prof.Monideepa Tarafdar, Ph.D., University of Lancaster (UK), a project was started to understand the virality of online phenomena. Dr. Marten Risius, University of Queensland (Australia), in cooperation with group members, developed a project concerning a new explanatory approach to the privacy paradox. Working together with Stefan Meißner, Norwegian School of Economics (Norway), he made significant progress during his stay in a joint project dedicated to the study of political, personalised advertising. In cooperation with Research Group 10 and Prof. Dr. Christian Matt, University of Bern (Switzerland), a project on perceptions of self-driving cars was initiated.

RESEARCH GROUP 10:
DIGITAL INTEGRATION

F.l.t.r.: Safa'a AbuJarour, Jana Gundlach, Cora Bergert and Dr. Antonia Köster

MEMBERS OF THE
RESEARCH GROUP:

Safa'a AbuJarour

Cora Bergert

Clara Bieg

Mille Døssing

Agha Eyad

Jana Gundlach

Md Jahid Hasan

Anita Hildenbrand

Lukas Höttges

Moritz Klemm

Dr. Antonia Köster (Research group leader)

Prof. Dr. Hanna Krasnova (PI)

Stephanie Masaar

Minh-Duc Pham

Research Group 10 aims to explore the potential of digitalisation, more specifically of social media, for social inclusion across all segments of the population, including marginalised and vulnerable groups. Social inclusion is an important component of any democratic society and has gained in importance worldwide due to refugee migration. In the context of global migration, social inclusion aims to enable migrants and refugees to find their way in their new environment, to integrate into the community and to participate in social processes. In this context, social media organisations such as Facebook and Twitter have the potential to promote social participation by enabling social exchanges with remote networks and facilitating access to relevant information. In addition to the target group of refugees, the research group also focuses on the use of digital technologies by children and adolescents. Because of their vulnerability within society, children and young people are a particularly important group in the field of digital inclusion research. Research in this area will examine, among other things, how children deal with digital technologies or what influence parents have on children's use of technology. Both quantitative and qualitative methods are used to answer the research questions.

The research group is currently working on the following dissertation topics:

Safa'a AbuJarour is a business information scientist working on her Ph.D. in the field of digital integration and investigating the role of technology in the social inclusion of refugees in Germany. This dissertation identifies best practices and develops recommendations that can be used as guidelines by stakeholders involved in the social inclusion of refugees. In business informatics, there has been a lack of research on the importance of technologies for refugees, in the asylum process and in social inclusion processes for refugees in host countries. For this reason, she applies quantitative and qualitative research methods in this dissertation to investigate the extent to which modern technologies can act as a bridge between refugees and their host societies and thus contribute to social inclusion and integration.

In her dissertation project, the economist Jana Gundlach examines how users obtain information via social media and especially via social networks and how this network use affects social behaviour. She investigates current phenomena such as hate speech and other abnormal behaviours. Her work deals with the reasons why such dynamics emerge and possible interventions.

Educated as a psychologist, in her dissertation project Cora Bergert examines the use of mobile, digital technologies by both children and parents. Today, children and young people represent an important user group for mobile devices such as smartphones or tablets, and they can move independently through the digital world. Based on the recognition that parental behaviour plays an important role in the development of children's use of technology, the project aims to investigate the relationship between the use of mobile technologies by both user groups.

During the reporting period, Research Group 10 collaborated with several international research fellows. These included Prof. Ofir Turel, Ph.D. from the College of Business and Economics of California State University (USA), who was a guest at the Weizenbaum Institute during the reporting period. The cooperation resulted in a research project on the concerns about and advantages of technology use by children as perceived by parents. A cooperation project with Prof. Monideepa Tarafdar, Ph.D., University of Lancaster (UK), deals with usage behaviour on social networks and the effects on social behaviour. Chee-Wee Tan, Ph.D., Copenhagen Business School (Denmark), Prof. Dr. Christian Matt, University Bern (Switzerland), Christy MK Cheung, Ph.D. Hong Kong Baptist University (China), and Dr. Helena Wenninger, University of Lancaster (UK) were also guests of Research Group 10.

RESEARCH GROUP 11:
DIGITALISATION AND
SCIENTIFIC VALUE
CREATION

F.l.t.r.: VyVy Tran Ngoc, Dr. Sonja Schimmler, Hannes Wünsche, Leonard Mack, Sebastian Urbanek and Mareike Bauer

MEMBERS OF THE
RESEARCH GROUP:

Mareike Bauer	VyVy Tran Ngoc
Prof. Dr. Manfred Hauswirth (PI)	Dr. Sonja Schimmler (research group leader)
Fabian Kirstein	Sebastian Urbanek
Leonard Mack	Hannes Wünsche

Research Group 11 investigates the influence of digitalisation on the societal effects of academic research. Digitalisation is understood as a change in research and publication processes that aims to increase the usefulness of research. One goal of the research group is to analyse and improve research and publication processes in other Weizenbaum Institute research groups. For this purpose, a research data infrastructure and other tools will be developed, established and evaluated in the institute.

In the past year, the topics of open data platforms and citizen participation (citizen science) have emerged as key concerns for Research Group 11. To help the establishment of an open science infrastructure for the Weizenbaum Institute, the research group is currently supporting the implementation of a repository for publications and research data as well as a research information system. It has also designed a citizen science portal, which is currently being prototyped. In the medium term, all the systems developed are intended to serve as a basis for the research group's further research activities.

The research group's work is shaped by current developments in the semantic web, linked data and artificial intelligence and draws on the extensive experience of Fraunhofer FOKUS in the field of open data management and open data platforms. The research group networks both nationally and internationally with research groups that are already active in these areas. By engaging with this network, the research group further sharpens its agenda by taking up and reflecting on ongoing initiatives.

Computer scientist Sonja Schimmler heads the research group and focuses on open science and research data infrastructures. During the reporting period, the research group's scientific staff defined and specified the focus of their doctoral theses.

Fabian Kirstein is a computer scientist and, in his dissertation, he investigates the question of whether the provision, administration and traceability of provenance information from linked open data can be improved by an additional, decentralised data layer. This problem is central to open distributed data platforms because it lays the foundation for estimating the credibility of information by ensuring secure data provenance.

The media computer scientist Sebastian Urbanek pursues the following research questions in his doctoral thesis: What should (semi-)automated processes for information integration look like? What processes can (semi-)automatically improve data quality in information integration process? What would meaningful and quickly understandable exploration visualisation look like when working with quality metrics?

The chemist and science studies researcher Hannes Wünsche deals with the question of what is meant by democratic science. How are the norms of participatory science changing through the use of digital technologies? In concrete terms, he investigates citizen science projects that describe themselves as new, open-democratic forms of research and that rely on digital technologies for participation.

Leonard Mack is a computer scientist and supports the research group as an associated researcher in the field of research data infrastructures. In particular, he is responsible for requirements management for the systems developed by the research group.

Dr. Isabel Steinhardt from the University of Kassel participated in the research group as a research fellow from June to July 2019. During her time at the Weizenbaum Institute, she addressed the use of digital infrastructures and technologies, especially in the area of research practices.

Prof. Mathieu d'Aquin, Ph.D. from the Insight Centre for Data Analytics at the National University of Ireland Galway (Ireland) supported the research group as a research fellow in August 2019. During his time at the Weizenbaum Institute, he worked on semantic web technologies and data management. His work considers the ethical and human aspects of information systems and reflects on their social implications.

In addition to our two student assistants Mareike Bauer and VyVy Tran Ngoc, three student interns supported the work of the research group during the reporting period.

3.4 Research Area: Democracy, Participation and the Public Sphere

This research topic investigates how participation processes in contemporary democracies are fundamentally changing due to the influence of digital technologies and asks what influence digitalisation is having on public opinion formation and public discourse.
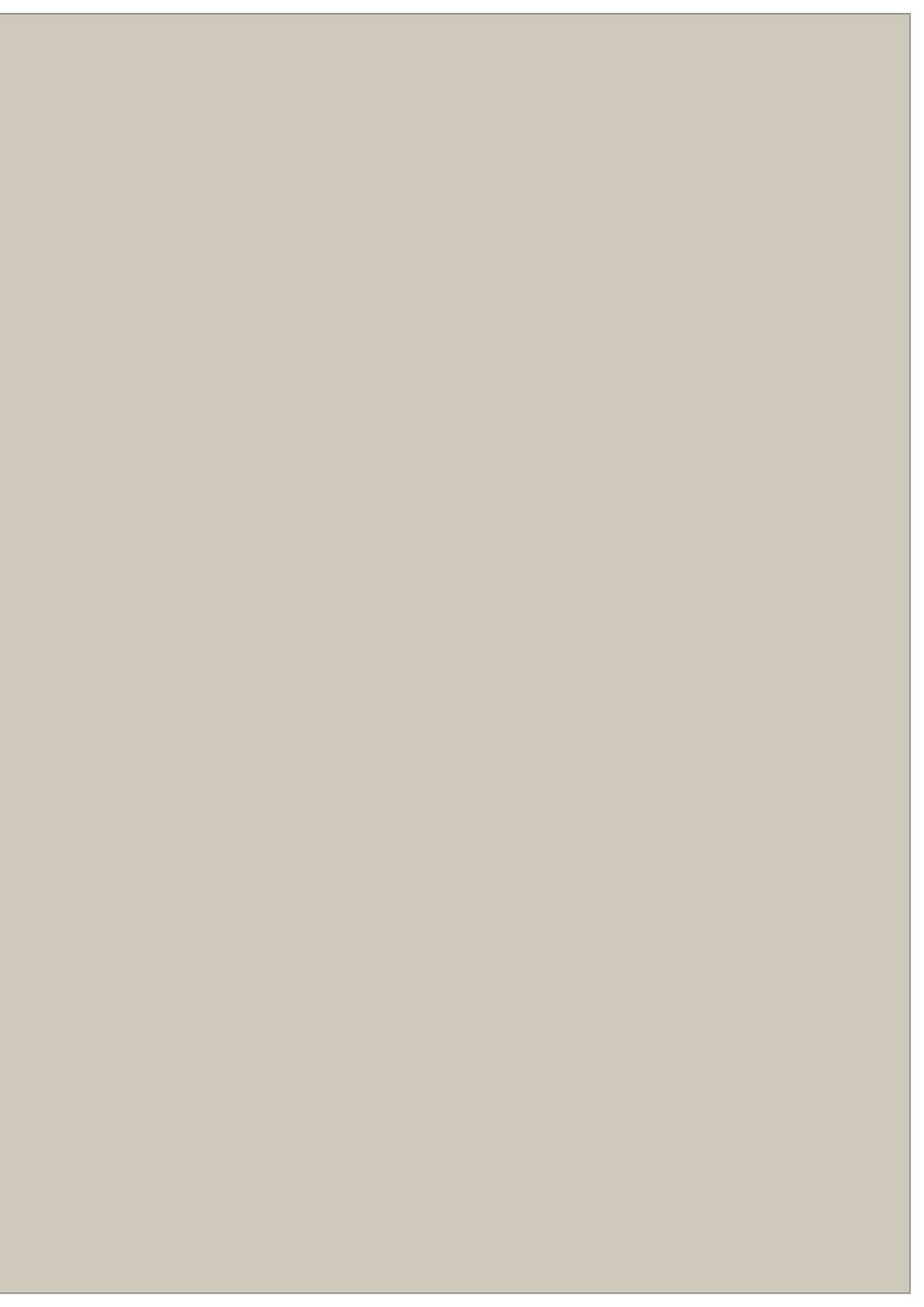
RESEARCH GROUP 12:
DEMOCRACY AND
DIGITALISATION

F.l.t.r.: Veza Clute-Simon, Niklas Rakowski, Sebastian Berg, Dr. Thorsten Thiel, Sonata Cepik
and Tim König

MEMBERS OF THE
RESEARCH GROUP:

Sebastian Berg	Tim König
Sonata Cepik	Rebecca-Lea Korinek
Veza Clute-Simon	Niklas Rakowski
Karoline Helbig	Dr. Thorsten Thiel (research group leader)
Prof. Dr. Jeanette Hofmann (PI)	

Research Group 12 investigates the interaction between digitalisation and democratic self-determination and examines how liberal-democratic societies are changing due to digitalisation.

The three primary areas of democracy to be investigated – participation, the rule of law, and the public sphere – were preceded by a preliminary question that asks about the general state of the digital constellation: How do digital technologies and society affect each other and which of the resulting changes are relevant for the functioning of democracy and in what way?

In the research area on participation, the group has specified the research question in two ways: on the one hand, it looks at changing formations of representation and public opinion. On the other hand, it has conducted a transdisciplinary workshop on tools for democracy developed by civil society and their significance for the "democratisation of democracy". In the public sphere, the group's research has focused on regulatory ideas pertaining to the digital public sphere and their theoretical legal and democratic legitimation. The research area on the constitutional state was expanded so that the group now investigates the development of democratic rule beyond legal structures. In addition to the question of changing legal realities, the group has worked on discourses on the justification of democratic sovereignty, on resistance practices in internet politics, and on the compatibility of automated decision-making systems with democratic legitimacy. The research group works in a predominantly theoretical and conceptual way, but it also conducts empirical studies, such as a Twitter study on the democratic content of the German #MeTwo debate.

In his dissertation, the political and legal scientist Sebastian Berg genealogically reconstructs the implications of data-based mediation and analysis techniques for the democratic conception of political representation. Legal scholar Niklas Rakowski works on the digital dimension of freedom of assembly. The sociologist Karoline Helbig investigates social changes in the digital constellation from the perspective of deliberative democracy theory.

During the reporting period, the group had a total of six research fellows: Dr. Christoph Raetzsch, University of Aarhus (Denmark), researched questions of governance in the smart city, Dr. Alexander Weiß, Helmut Schmidt University Hamburg (Germany), worked on digitalisation and democracy beyond the West, Dr. Vincent August, HU Berlin (Germany), dealt with cybernetics and control concepts, PD Dr. Eva Weber-Guskar, also from HU Berlin, dealt with anonymity and AI, Dr. Mareile Kaufmann, University of Oslo (Norway), researched activism against surveillance practices and Anna-Verena Nosthoff, Albert-Ludwigs-University Freiburg (Germany), investigated digital government technologies.

During the reporting period, research group leader Thorsten Thiel was on parental leave from November 2018 to February 2019. Karoline Helbig has been on maternity/parental leave since the beginning of 2019 and is being covered by Rebecca-Lea Korinek from August 2019 to April 2020. Rebecca-Lea Korinek is a political scientist and is doing her doctorate on the political and epistemic authority of non-majoritarian institutions at the nexus of politics and science. Jeanette Hofmann is PI and researches the relationship between digitalisation and democracy.

RESEARCH GROUP 13:
DIGITAL CITIZENSHIP

F.l.t.r.: Dr. Pablo Porten-Cheé, Nadja Schaetz, Jette Bergen, Emilija Gagrčin, Annika Schütz, Marlene Kunst, Laura Leißner and Sina Thäsler-Kordonouri

MEMBERS OF THE
RESEARCH GROUP:

Jette Bergen

Prof. Dr. Martin Emmer (PI)

Emilija Gagrčin

Louise Jørring

Marlene Kunst

Laura Leißner

Dr. Pablo Porten-Cheé (research group leader)

Nadja Schaetz

Annika Schütz

Florian Stiel

Sina Thäsler-Kordonouri

António Dinis Valentim

Research Group 13 examines how political participation and social commitment are shaped under the conditions of digitalisation and seeks to identify which factors explain participation today. For this purpose, the group systematically examines several change processes: it identifies and analyses changing and newly emerging attitudes towards and expectations of civic engagement in democracy – so-called emergent citizen norms – and their consequences for individual political participation. In particular, we also examine participation in discourse under today's conditions of hate speech and incivility. First, we want to find out how people understand their relationship to democracy today and second, we want to pay special attention to how this relationship is changing in digital media environments.

We are systematically reviewing the current research in this field. Central concepts and theories are incorporated into our research and form the basis for the development of hypotheses and research questions. The research uses semi-structured interviews and group discussions as well as representative surveys or online surveys. This set of survey instruments helps to identify citizen norms and participation behaviour and to describe or explain them as holistically as possible. In addition, we use experimental designs to identify the effects of content characteristics in online discussions on people's attitudes and behaviour.

Laura Leißner has a background in the fields of media and political communication. Her doctoral thesis explores the question of how social media is influencing the increasing individualisation and privatisation of political participation. She focuses on the concept of so-called lifestyle politics, which describes how citizens integrate political values and goals into their everyday lives and thus shape the private sphere as a site of the political. Using the example of sustainable, environmentally friendly lifestyles, her dissertation project examines the extent to which social media is contributing to lifestyle activists' processes of information acquisition, networking and mobilisation. In a first study last year, a quantitative online survey was conducted among young users of social media.

In her doctoral thesis, the communication scientist Marlene Kunst looks at the theory of the counter-public from the microperspective of media impact research. The counter-public is understood as a challenge to the dominant discourse, which is characterised by the assertion that the mass media is disregarding the individual's own perspectives. The project consists of several experimental sub-studies, which are intended to shed light on the extent to which counter-publics have an informational or normative-social influence on the formation of public opinion.

This report only discusses two ongoing doctorates. At the time of writing, the Ph.D. students Louise Jørring (April 2019) and António Valentim (July 2019) have left left us; Emilija Gagrčin (June 2019) and Nadja Schaetz (August 2019) have joined the team and have recently started developing their own questions in connection with their dissertation projects.

Prof. Ariadne Vromen, Ph.D., University of Sydney (Australia), was a research fellow in our research group in October 2018 and worked with us to find out what factors can explain participation in online petitions. A comparative survey and experimental design (Australia/Germany) was used.

Prof. Michael Xenos, Ph.D., University of Wisconsin – Madison (USA), was a research fellow of the research group in May and June 2019. Together with him, we are working on a publication on the connection between engagement-related citizen norms, social media use and political participation in the USA. In this project, we are drawing on panel data collected before and after the U.S. elections in 2016.

Other research fellows in our research group with whom we discussed the role of citizens in the digital society included Prof. Pablo J. Boczkoswki, Ph.D., Northwestern University (USA), and Dr. Neta Kligler-Vilenchik, Hebrew University in Jerusalem (Israel).

RESEARCH GROUP 14:
NEWS, CAMPAIGNS AND
THE RATIONALITY OF
PUBLIC DISCOURSE

F.l.t.r.: Franziska Martini, Roman Kondratiev, Annika Schütz, Prof. Dr. Ulrike Klinger and
Xixuan Zhang

MEMBERS OF THE
RESEARCH GROUP:

Prof. Dr. Ulrike Klinger
(research group leader)

Frederik Körber

Roman Kondratiev

Franziska Martini

Prof. Dr. Barbara Pfetsch (PI)

Annika Schütz

Xixuan Zhang

Research Group 14 theoretically and empirically studies the contents and processes of political communication in digital public spheres with a focus on election campaigns and discursive dynamics in social media platforms such as Facebook or Twitter.

Our work focuses on two overarching research questions:

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What forms and types of political campaigns do we
encounter in the digital world and how does
information spread on digital platforms and networks?
What information spreads and on which platforms and
networks does it spread?
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Two projects were relevant during the reporting period: One project comparatively studied populism as a communication phenomenon in political parties' Facebook postings in election campaigns in France, the United Kingdom and Germany over the period 2014 to 2018. On the basis of the results, we show how different forms of populism have developed over the years and which forms have increased.

We are also carrying out another overarching project with Research Group 15, with the participation of research fellow Prof. Lance Bennett, Ph.D. from the University of Washington (USA). In it, we examine the campaign dynamics of the protest against the UN Global Compact for Migration, which peaked in autumn 2018, across various platforms such as traditional media, Twitter, YouTube or "alternative" right-wing news sites and blogs.

Further projects on campaign dynamics are currently in preparation. During the election campaigns for the European Parliament elections in 2019, for example, we collected data that will be evaluated in the coming months.

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Social media, social bots and disinformation
campaigns: What factors influence political careers
in hybrid media systems?
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An important project for Research Group 14 in the reporting period involved the analysis of automated Twitter accounts, so-called social bots. In the first step, we monitored various political discourses on Twitter, including the hashtags #chemnitz and #ltwby19 (Bavarian state elections), and looked for social bots in these discourses. We then developed this into a systematic comparison of different methods for bot identification.

Our research group works primarily with social media data, because we investigate how political actors act on Facebook or Twitter and the dynamics that campaigns acquire on social networks. Access to such data is very limited – and it is restricted by the platforms, the owners and the users.

This area of research is much more difficult to address today than it was five years ago; at present, research is only able to look through a keyhole at the things that are happening in social networks.

We analyse the available data partly with classical social science methods (for example, content analysis, statistical analysis with Excel, SPSS or R, network analysis) and partly with methods from computer science or related fields (for example, the bot-detection tool Botometer developed by the University of Indiana in the USA).

Social networks are a very dynamic object of investigation: networks and accounts change with each new posting or *like*. The mobilisation strategies of political parties change with every election campaign. Social media users are constantly developing new phenomena and forms of communication (e.g. memes).

Communication scientist Franziska Martini's dissertation deals with gender and digital networks. She examines the actors and dynamics that arose around Twitter hashtags such as #MeToo. She also examines the role gender plays in discourses on Wikipedia editing pages.

Xixuan Zhang has been a research assistant since May 2019. She previously supported the research group as a student assistant and completed her M.A. in political communication at the FU Berlin in the winter semester of 2019.

Five research fellows were guests during the reporting period: Dr. Maurice Vergeer, Radboud University in Nijmegen (Netherlands), who offered a one-week methodology workshop on analysis with R in October 2018; Dr. Julia Rone, University of Cambridge (UK),worked on a project on fake news from October to December 2018; Troels Runge, IT University of Copenhagen (Denmark), worked on a dissertation on social media in election campaigns from October to December 2018; Prof. Jakob Svensson, Ph.D.., University of Malmö (Sweden), offered methodological insights into qualitative political communication research and was a guest from December 2018 to January 2019 along with Dr. David Lanius, Karlsruhe Institute of Technology (Germany), who researched a theoretical-conceptual approach to fake news from April to June 2019.

RESEARCH GROUP 15:
DIGITALISATION AND
THE TRANSNATIONAL
PUBLIC SPHERE

F.l.t.r.: Dr. Curd Knüpfer, Annika Schütz, Kaija Biermann, Susanne Reinhardt, Dr. Annett Heft, Vadim Voskresenskii and Matthias Hoffmann

MEMBERS OF THE
RESEARCH GROUP:

Katharina Bauer

Kaija Biermann

Pauline Bombeck

Dr. Annett Heft
(research group leader)

Matthias Hoffmann

Dr. Curd Knüpfer
(research group leader)

Prof. Dr. Barbara Pfetsch (PI)

Susanne Reinhardt

Annika Schütz

Carolin Stock

Vadim Voskresenskii

Research Group 15 deals with the role that digital technologies and media play in the formation of transnational and national public spheres, political issue networks within civil society and processes of political mobilisation.

We focus on right-wing populist and right-wing extremist groups, media and parties in seeking to determine the extent to which the internet contributes to the formation, consolidation and transnationalisation of digital communication ecologies. We thus investigate digital communication environments that emerge in connection with right-wing populist issues such as migration, asylum, anti-feminism or anti-Islamism in different Western democracies.

The projects take a comparative, cross-country perspective and look at digital communication beyond the borders of nation states to describe and explain the forms and dynamics of public communication. A core element of the research is to develop digital methods to make these dynamics measurable and to better understand them.

Our research currently focuses on three core areas of right-wing populist communication: digital political news systems, digital (counter-)publics and dynamics of politicisation. We ask how volatile or stable the communication infrastructures of right-wing groups and media are on the internet and what characteristics these groups' digital communication platforms exhibit? What interactions are there between traditional mass media, social media and digital platforms in right-wing issue networks and how can the dynamics of national and transnational diffusion processes and information flows be described?

In its empirical projects, Research Group 15 uses computational social science methods, network analyses, automated and manual content and frame analyses, online surveys and qualitative survey methods such as semi-structured interviews.

Political scientist Matthias Hoffmann's doctorate is in the field of protest and social media. He examines forms of collective action by asylum opponents that emerge in digitally mediated communication and their significance for right-wing protest phenomena in Germany.

Susanne Reinhardt has a degree in media and political communication and, in her dissertation, examines discursive alliances against feminism and gender politics that are becoming visible in digital public spheres. Using network and frame analyses, she looks at which actors come together in digital platforms against gender equality policy, which identities and interpretative frameworks these actors use, and how the actors and discourses can be described and explained in different countries.

Sociologist Vadim Voskresenskii's dissertation focuses on social media in Russia and investigates transnational connections between European right-wing online communities migrating from Facebook to Russian social media, as well as communication patterns and processes of structural formation in these digital communities.

During the reporting period, the group hosted Prof. Lance Bennett, Ph.D. from the University of Washington (USA) as a senior fellow, Dr. Carsten Schwemmer from the University of Bamberg (Germany) as a junior fellow and Prof. Sandra González-Bailón, Ph.D. from the Annenberg School of Communication of the University of Pennsylvania (USA) as a senior fellow.

In addition, the research group held two research workshops with fellows and international researchers on the topics of "Order and Disruption in the Attention Economy" and "Structures, Dynamics, and Audience Engagement in Networked Public Spheres."
 A workshop on "Digitalisation and the Transnational Public Sphere" was held with Prof. Ralph Schroeder, Ph.D. from the Oxford Internet Institute (UK). Another workshop on digital communication from the right facilitated exchange and networking among actors from civil society and network partners of the Weizenbaum Institute, for example, the Amadeu Antonio Foundation, the Friedrich-Ebert-Foundation and the Neue Verantwortung Foundation.

3.5 Research Area: Governance and Norm Setting

In the networked society, we are observing a profound change in social-coordination, control and legislative processes. Our research groups investigate how their conditions, forms and subjects are changing in the course of the digital transformation.

RESEARCH GROUP 16:
SHIFTS IN NORM
SETTING

F.l.t.r.: Simon Schrör, Malte Mackensen, Ferdinand Müller, Nieke Wagner, Alexander Schiff,
Tetiana Shportak, Paul Dürr and Isabella Rick

MEMBERS OF THE
RESEARCH GROUP:

Malika Akim

Paul Dürr

Alexandra Keiner

Malte Mackensen, LL.M.
(King's College)

Prof. Dr. Axel Metzger, LL.M.
(Harvard) (PI)

Ferdinand Müller

Jana Pinheiro Goncalves

Isabella Rick

Alexander Schiff, LL.M. (LSE)

Simon Schrör

Tetiana Shportak

Prof. Dr. Herbert Zech (PI)

Research Group 16's overarching research question relates to the relationship between and mutual influences of digitalisation and norm setting. The term "norm setting" is deliberately ambiguous: it covers the legal and non-legal conditions for and consequences of state regulation in the digital age and their effects on public institutions and private actors. On the other hand, "norm setting" also refers to social practices and conventions and their relationship to normative standards, which are also undergoing transformation processes under the influence of digitalisation.

Alexander Schiff is a fully qualified lawyer and, in his dissertation project, engages from a jurisprudential perspective with the role of companies that shape public opinion discourse by operating communication infrastructures and providing relevant information (so-called information intermediaries). In particular, he investigates the liability regime for providers of such services, an area which has been characterised by a rapid development of case law and a lively literature.

In his research on the development of digital-based production conventions and their diffusion into digitalising areas of society, the sociologist Simon Schrör examines how forms of action coordination and regulation established in the digital sphere are diffusing into new industries and cultural areas as the digitalisation process continues. Taking the example of the designer furniture industry, which is being shaped and changed in various ways by digitalisation, such diffusion processes will be analysed. The central question is how concepts such as ownership, originality and quality are developing at the intersection of the material and the immaterial.

In an interdisciplinary project, the research group is also working on an empirical analysis of the legal discourse on EU copyright reform.

The planned expansion of the team through the arrival of doctoral students Paul Dürr and Ferdinand Müller, as well as the expected addition of a postdoctoral position, will further develop and sharpen the overall research profile.

In June 2019, the research group brought together renowned experts from Europe and the USA at the Weizenbaum Institute for a workshop on the conditions for intellectual property and copyright law in the international and international legal context.

During the reporting period, several research fellows were guests of the research group: Prof. Dr. Fabricio Polido, University of Minas Gerais (Brazil), investigated the relationship of legal regulation of the internet between national jurisdiction, international cooperation and international private and procedural law in a publication project conducted as part of a fellowship, with a focus on the countries of Brazil and the EU.

Anni Carlsson, University of Uppsala (Sweden), is working on her dissertation on the constitutional protection of freedom of expression in social media. Her work includes a comparative study of the constitutional laws on freedom of expression and their application in social media in Sweden, the USA and Germany.

Another guest was Dr. Wenguang Yu, Renmin University in Beijing (China), who focused on shifts in norm-setting competencies on the internet, with particular emphasis on technical standards in cyberspace. She is working on a publication project on this topic.

RESEARCH GROUP 17:
TRUST IN DISTRIBUTED
ENVIRONMENTS
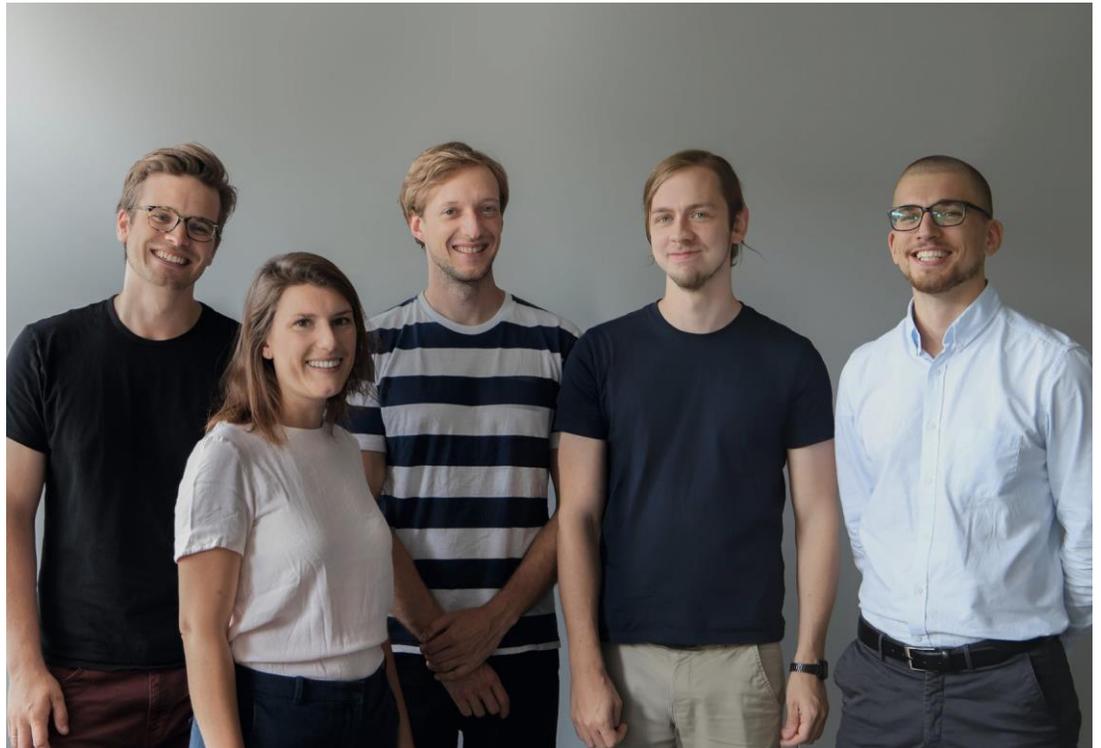
F.l.t.r.: Ingolf Gunnar Anton Pernice, Sophie Beaucamp, Sebastian Henningsen, Moritz Becker and
Dr.-Ing. Martin Florian

MEMBERS OF THE
RESEARCH GROUP:

Sophie Beaucamp, LL.M. (LSE)

Moritz Becker

Dr.-Ing. Martin Florian
(research group leader)

Sebastian Henningsen

Georg Gentzen

Ann-Kathrin Koster

Valeria Nieberg

Ingolf Gunnar Anton Pernice

Jana Pinheiro Goncalves

Prof. Dr. Björn Scheuermann
(PI)

Ben Schumacher

Daniel Teunis

In the eyes of the public, automated data management and processing is often associated with a lack of transparency and control. At the same time, decentralised systems such as Bitcoin are enjoying unprecedented popularity. Such systems are transparent, both in terms of how they work and the data they store. They thus promise to do away with intermediaries and trust anchors and to promote bottom-up approaches.

Research Group 17 is carrying out interdisciplinary work on questions emerging from these developments, drawing on expertise in the fields of computer science, law, sociology and economics:

    What effects do such systems actually have on users?

    How is trust developed in distributed environments and how is it structured?

    What are the implications of implementing algorithmic rule?

A current selection of more specific research topics includes:

    Monetary policy in decentralised financial systems

    Automated law enforcement, algorithmic decision making and consumer rights

    Development processes for blockchain-based systems

    Data storage on blockchains: legal challenges and technical solutions

    Security and trust in public systems such as Ethereum, Bitcoin and Stellar

This has given rise to the following four doctoral theses, which are currently being worked on in Research Group 17:

    Sophie Beaucamp (law): "Automation and Consumer Protection – The Protection of Consumers in Automated Law Enforcement Systems Taking Filter Technologies as an Example"

    Moritz Becker (sociology): "Autonomy in the Distributed Organisation: A Study of Collective Decision-Making Processes in Crypto Currencies"

    Sebastian Henningsen (computer science): "On the Resilience of Cryptocurrencies"

    Ingolf G. A. Pernice (economics): "Crypto Currencies: Causes of and reductions in price instability in speculative assets"

During the reporting period, the interdisciplinary research project on data storage on blockchains was completed and the results were published. In the future, this research will be continued primarily within dissertation projects.

Particular progress was also made in the project on price stability in crypto currencies. The group's intensive cooperation with Roman Proskalovich, University of Belarus (Belarus), who was a junior fellow at the research group from October 2018 to the end of March 2019, culminated in a comprehensive article on the economic and technical characteristics of so-called stablecoins. Prof. Dr. Hermann Elendner, Centre for Blockchain Technologies at University College London (UK), co-author of this publication and co-organiser of the Crypto-Currencies Conference (CCConf), came to the group as a research fellow and worked together with the group on a financial-technical analysis of payment transactions in Bitcoin from July to August 2019.

In March and April 2019, Prof. Dr. Frank Kargl, University of Ulm (Germany), also visited the research group. During his three-week stay, numerous discussions about possible cooperations took place. In July 2019, research group leader Martin Florian returned the visit in order to continue the dialogue.

The research group continuously discusses questions and projects that go beyond the individual doctoral projects and the research programme. Beyond the topic of blockchain, we also seek to address fundamental questions of trustworthiness and authenticity in the digital realm. In this regard, the group had a lively exchange in August and September 2019 with Dr. Balász Bodó, University of Amsterdam (Netherlands), who, as a fellow in the research group, worked on his book *Mediating Trust* and contributed his expertise to the research group's discussions.

RESEARCH GROUP 18:
QUANTIFICATION AND
SOCIAL REGULATION

F.l.t.r.: Jana Pannier, Stephanie Renneke, Florian Eyert, Rainer Rehak, Dr. Lena Ulbricht,
Florian Irgmaier, Sonata Cepik and David Prinz

MEMBERS OF THE
RESEARCH GROUP:

Sonata Cepik	David Prinz
Florian Eyert	Rainer Rehak
Florian Irgmaier	Stephanie Renneke
Prof. Dr. Jeanette Hofmann (PI)	Dr. Lena Ulbricht (research group leader)
Jana Pannier	

Research Group 18's work centres on the key question of how regulation is changing due to the use of technologies such as big data, algorithms and AI. Individual lifestyles are increasingly being shaped by devices such as wearables and smartphones; more and more organisations are using automatic decision-making systems based on big data and AI; and governments are also using digital governance instruments, such as predictive policing systems or social credit systems, to a growing extent. In order to determine how these processes are changing regulation, the research group developed a conceptual framework during the reporting periodand submitted it to a leading international journal of regulatory and governance research, where it was accepted for publication with minor changes.

The research group consists of researchers from the fields of political science, sociology and computer science. It positions itself in the research fields of governance and regulatory research, policy research, critical informatics, the sociology of classification, quantification and evaluation, science and technology studies and critical algorithm studies. The methodological approach in the reporting period was characterised by theoretical work and empirical studies. The empirical studies are based on secondary analyses, document analyses, background discussions and interviews with experts.

A dissertation project by the sociologist Florian Eyert investigates the use of computer-based models in the analysis of political and social dynamics and their implications for the rationalities of social regulation. The project examines methods such as machine learning and computer simulations, which are used in computational social science as epistemic resources for policy-relevant problems.

Florian Irgmaier is a sociologist and his dissertation investigates how new descriptions of human beings are emerging in the context of behavioural science and digitalisation and how these descriptions are changing both the techniques for intentional behavioural influence and the justifications for their use.

In his dissertation project, the computer scientist Rainer Rehak examines what social and political conditions are necessary to successfully implement IT security in the networked society and why these do not yet exist. Among other things, he will investigate whether and to what extent the concept of infrastructure has to be changed under digital conditions. By analysing some serious "irritations" such as viruses and worms, he will identify the causes of vulnerabilities.

The political scientist and research group leader Lena Ulbricht is currently completing her cumulative habilitation thesis on algorithmic governance. Algorithmic governance refers to processes of deliberate social order formation drawing on computer-based, complex knowledge such as big data, algorithms and AI.

During the reporting period, the research group initiated and continued various forms of interdisciplinary cooperation. For example, the group organised an international conference on the political epistemologies of big data, which centred on the question of how digital technologies are changing the both the conditions for producing politically relevant knowledge and the validity of such knowledge. In addition, it organised three workshops on the concept of algorithms and the possibilities and limits of their interdisciplinary use. For the Science, Technology and Society Conference Graz 2019, the research group organised three panel sessions on the "Politics of Algorithmic Governance". In cooperation with other research groups, the group also organised a series of talks and a public workshop on scientific and artistic engagements with AI entitled "Artistic Intelligence". As part of the WZB-Mercator Science and Politics Forum 2018 on "Big Data 4 Policy", members of the research group organised two interactive workshops. In addition, the group's Ph.D. candidates are strongly involved in the work of the cross-sectional format "Autonomous Systems and Self-Determination".

The following persons held fellowships during the reporting period: Dr. Rena Schwarting, WZB (Germany), was a research fellow from October to December 2018 and conducted research on organisational change and digitalisation. Dr. Stefan Baack, Alexander von Humboldt Institute for Internet and Society (Germany), was a fellow from October to December 2018 and conducted research on civic tech. Dr. Aljoscha Burchardt, German Research Center for Artificial Intelligence (Germany), was a fellow in November 2018 and researched public discourses on AI. The freelance journalist Katika Kühnreich (Germany) was a fellow in December 2018 and did research on the Chinese social credit system. The freelance artist Agnes Jänsch (Germany) was a fellow in December 2018 and researched artistic perspectives on AI and society. Dr. Norma Möllers, Queens University (Canada), was a fellow from May to July 2019 and researched the relationship between cyber security and the nation state. Dr. Mareile Kaufmann, University of Oslo (Norway), was a fellow in June and July 2019 and conducted research on political hacking. Prof. Pablo J. Boczkowski, Ph.D., Northwestern University (USA), was a fellow in June and July 2019 and researched the political dimension of individual strategies of information processing. Prof. Daniel Kreiss, Ph.D., University of North Carolina at Chapel Hill (USA), was a fellow in July and August 2019 and conducted research on data-based campaigning.

3.6 Research Area: Technological Change

We use the term "digital networking" to describe the linking of the physical world with the digital world. This link entails the digital capturing, mapping and modelling of the physical world and the networking of the resulting information. The question of how this complex process should be coordinated in various areas between society, politics, manufacturers and operators is the subject of our research.

RESEARCH GROUP 19:
DIGITALISATION AND
NETWORKED SECURITY

F.l.t.r.: Selma Lamprecht, Otto Hans-Martin Lutz, Evren Kücükbayraktar and Richard Huber

MEMBERS OF THE
RESEARCH GROUP:

Jakob Gerber

Prof. Dr. Manfred Hauswirth
(PI)

Richard Huber (temporary head
of research group)

Jan Kopankiewicz

Evren Kücükbayraktar

Selma Lamprecht

Otto Hans-Martin Lutz

Manuel   Schneiderbauer

Pouyan Fotouhi Tehrani

Research Group 19 conducts research on topics of public security, IT security and privacy. Adopting an approach that transcends the boundaries of the disciplines involved, we investigate the effects of digitalisation on objective and subjective (perceived) security in society. We investigate and test methods, procedures and formats that make the threats of today's knowledge society tangible and point to possible solutions and potential for improvement by making hidden knowledge comprehensible and apparent. The transfer of knowledge into the respective scientific disciplines, but also to users, media organisations and even target groups from outside the IT world, shapes our research and our role as a group at the Weizenbaum Institute.

The interdisciplinary cooperation in the research group enables the application and scientific discussion of various research methods, for example, open and semi-structured interviews, literature research, design thinking, user-centred design, psychological and sociological research designs, agile development methods, walk-through analyses, pre-post experimental designs, qualitative and quantitative evaluations, ethnography and quantitative questionnaires (digital, written and mobile) as well as qualitative content analysis, sequence analysis, grounded theory, discourse analysis, topic modelling and descriptive and multivariate statistics.

The sociologist and criminologist Selma Lamprecht examines the socio-technical public relations work of the police forces in her dissertation project. Otto Hans-Martin Lutz is a specialist in human-machine interaction and his dissertation project concerns the sonification (auditory mediation) of threats to security and privacy. The technical computer scientist Evren Kücükbayraktar deals in her Ph.D. with the opportunities and threats to the privacy and security of IoT device users due to hidden functionalities, artificial restrictions and uncontrollable data transfer. Pouyan Fotouhi Tehrani is also a computer scientist and looks in his dissertation project at the following question: can information centric networks (ICN) increase public security in disaster response scenarios? The acting research group leader Richard Huber is a computer scientist and researches stereotypes and clichés in IT security.

We will continue to promote intensive interdisciplinary exchange as a shared central design principle for the research group. To this end, we are testing various event formats. We started in March 2019 with a lecture by data journalist Michael Kreil, who is also one of the leading open data activists. To internationalise our research group, we are developing a close exchange with the European University Viadrina, which has a strong international focus. Starting in autumn 2019, our research group will integrate research fellows, who will support us in developing further research and cross-sectional formats.

Thanks to its distinctly interdisciplinary profile, the research group is well connected to the other research groups at the Weizenbaum Institute. The group's young researchers are participating actively in the development and design of the cross-sectional format "Security and Openness".

RESEARCH GROUP 20:
CRITICALITY OF AI-
BASED SYSTEMS

V.l.n.r. : Milagros Miceli, Gunay Kazimzade, Philipp Weiß, Dr. Diana Serbanescu,
Martin Schüßler and Veronika Kirgis

MEMBERS OF THE
RESEARCH GROUP:

Gunay Kazimzade

Veronika Kirgis

Milagros Miceli

Prof. Dr.-Ing.
Ina Schieferdecker (PI)

Martin Schüßler

Dr. Diana Serbanescu
(research group leader)

Marie-Theres Thomas

Theofanis Vassiliou-Gioles

Philipp Weiß

TianLing Yang

AI systems are increasingly being adapted to human activities. Fed with data that we humans generate, they are working ever more closely with us in real time. It is becoming increasingly obvious that the search for AI is also a search for human values. The task of our research is to determine how knowledge can be integrated into technologies and how it can be derived from them. Central aspects such as systematic discrimination, trust, transparency, responsibility, sustainability, human-machine interaction and the need for new forms of education are the core topics of Research Group 20.

Although they already influence the everyday lives of citizens in various different ways, many AI systems have so far acted as black boxes and their modes of operation are difficult or impossible to understand. The public perception of such systems is characterised by mistrust, but there is also ignorance of their theoretical underpinnings. Therefore, a further goal of the research group is to involve the public in the scientific discourse on AI. We want to sharpen citizens' awareness of the capabilities and limitations of AI technologies and to break new ground in scientific research through social dialogue and inclusion.

Martin Schüßler is a computer scientist and deals in his dissertation with the explicability of AI. Interpretable models for machine learning and algorithmically generated explanations can help to make AI systems more transparent, comprehensible and understandable. But what concrete requirements for explicability and comprehensibility do algorithms need to satisfy in order to be trustworthy and conform to values?

In her dissertation project, computer scientist Gunay Kazimzade deals with systematic errors in AI systems and AI-enabled gender-specific and racial discrimination. AI-supported education offers learners and teachers completely new opportunities but also presents them with new challenges, such as algorithmic bias. She studies whether the personalisation and individualisation of adaptive educational technologies endanger or promote inclusivity and diversity in education.

Theofanis Vassiliou-Gioles is an electrical engineer and his dissertation deals with quality assurance for highly distributed, loosely interlinked software services with a special focus on continuous integration and delivery processes. Today, modern development processes enable the fast implementation and immediate provision of new software applications. Techniques for quality assurance of marketed software are becoming more important

– on the one hand, because the world is so fast moving, and on the other hand, for security and business-critical software-based software services.

In her master's thesis, Milagros Miceli examines from a social-scientific perspective how power is exercised by autonomous classification systems and what role employees in the field of data science play in the (re)production and naturalisation of power. Specifically, Ms. Miceli investigates the social effects of image classifications when they are normalised, institutionalised and automated.

Stefania Druga, University of New York (USA), was a research fellow from December 2018 to February 2019. With her project "Cognimates AI Literacy for Families", she aims to encourage and empower children and parents to acquire new AI concepts and to develop new theories of thinking and learning through collaborative play and design with intelligent devices.

PD Dr. Eva Weber-Guskar, HU Berlin (Germany), was a research fellow from June 2019 to August 2019. She researches the ethics of emotionalised AI and engages with the problems that may accompany the emotionalisation of AI systems, both in the moral-philosophical and ethical-anthropological sense.

Within the framework of the project "The Shape of Things to Come" (https://shapeofthings.replica.institute/), research group leader Diana Alina Serbanescu is investigating democratic and participatory practices that can shape sustainable future concepts with AI and body theatre. The project is a cooperation between the Weizenbaum Institute and the REPLICA Institute for Creative Anticipation and Performing Arts and was funded by the Volkswagen Foundation in 2019 with a planning grant in the field of AI and the society of the future.

3.7 Cross-sectional formats

Within the institute, we aim to achieve intensive networking between the individual research groups. In 2018, the research groups presented their research agendas and research questions to each other in regular Brown Bag Coffee Talks. In addition to the 20 research groups, three cross-sectional topic groups were formed. These cross-sectional formats are pursuing two goals: first, they bring together research results and compile them so that they can help inform overarching ethical and political issues. The aim is to provide expertise on the major strategic issues with regard to the relationship between society and digital technology. Second, they generate innovative ideas for the further development of the research agenda of the Weizenbaum Institute. The cross-sectional formats are a versatile instrument. Their questions and also their number will be adapted to the development of the Weizenbaum Institute. The following cross-sectional formats were active in the reporting period:

AUTONOMOUS SYSTEMS AND SELF-DETERMINATION

In its interdisciplinary work, this cross-sectional format focuses on three central questions:

1. What is meant by the terms "autonomous systems" and "self-determination"?

2. Is the relationship between so-called autonomous technical systems and individual or social self-determination a zero-sum game? To what extent can autonomous systems be understood as restrictions on human self-determination and to what extent can they be regarded as growth?

3. What are the necessary conditions for self-determination in the digital age?

Discussion, reading and planning meetings, which have been held regularly since June 2018, form an integral part of this cross-sectional format. At these meetings, participants developed the three key questions and fundamental topics of the cross-sectional format, discussed previous relevant research and planned the long-term approach.

The central element of the cross-sectional format is a lecture series that deals with the identified core questions. Experts from various disciplines present their analyses of the relationship between autonomous systems and self-determination to a public and academic audience. During the reporting period, seven events in this series took place: the computer scientist Prof. Dr. Hans-Jörg Kreowski, University of Bremen, discussed autonomous weapon systems, while the legal scholar Prof. Dr. Thomas Burri, University of St. Gallen (Switzerland), presented a framework for the categorisation of autonomous security systems. During the twelfth Blockchain Night, a series of events organised by Research Group 17 in cooperation with HU Berlin, Andrea Bauer (freelance author), Viktor Peter (GIZ) and Rainer Rehak (Weizenbaum Institute) presented their perspectives on the relationship between blockchain and self-determination and discussed them on the podium. In light of the current rise of "buzzwords", the computer scientist

Prof. Dr. Wolfgang Coy, HU Berlin, called for a clarification of concepts informed by the history of computer science ideas for the purpose of discursive self-determination. A lecture by PI Norbert Gronau dealt with the question of what degree of autonomy is necessary for technical systems to fulfil certain organisational goals. In his lecture, the executive director of the Weizenbaum Institute, Herbert Zech, highlighted the problems digital networks and complex IT systems pose for liability law and how these can be overcome. The artist Roman Lipski and the entrepreneur Florian Dohmann showed that AI does not necessarily restrict human creativity but can even promote it.

The discussions and presentations as part of this cross-sectional format generated a number of important findings. These include, first, an insight into the importance of precise terms for productive social discussions. Hence, instead of speaking of "autonomous" systems, it is advisable to speak of "automatic" or "automated" systems, since this term covers the independent activity and, if necessary, also the contextual adaptation of technical systems and at the same time avoids the vagueness and political connotations of the concept of autonomy.

Such terminology work is particularly necessary, since the concept of autonomy, according to a second finding, is often used strategically due to its substantive indeterminacy. Sociology, in particular, traces how different groups frame their political concerns as problems of self-determination and thus try to assert them. The same can be observed in the field of technology: the designation of technical systems, such as vehicles, as "autonomous" opens up the possibility for manufacturers or users to evade moral and legal responsibility.

The twelfth Blockchain Night "Blockchain Technology – Fostering Self-Determination and Autonomy?" provided important insights into the implications of a currently much discussed technology for individual and social self-determination: blockchain. The lectures and discussions showed that regulatory resilience is a special feature of blockchain-based systems. On the one hand, this characteristic could lead to individual autonomy gains, but on the other hand, it could have a negative effect on the possibilities for societal self-determination.

Another important insight from the work of the cross-sectional format concerns the political aspects of introducing automated systems. Research should not focus solely on the question of whether and to what extent societies as a whole gain or lose autonomy from automated systems. An equally important question pertains to the social distribution of gains and losses of autonomy, i.e. the question of which groups are increasingly being exposed to the decisions of third parties due to the introduction of automated systems and which groups have a growing ability to influence the actions of third parties.

Further lectures and events are planned for the current and coming year. Among other things, the economic dimension of the cross-sectional topic will be examined, for example, by means of the effects on employment relationships.
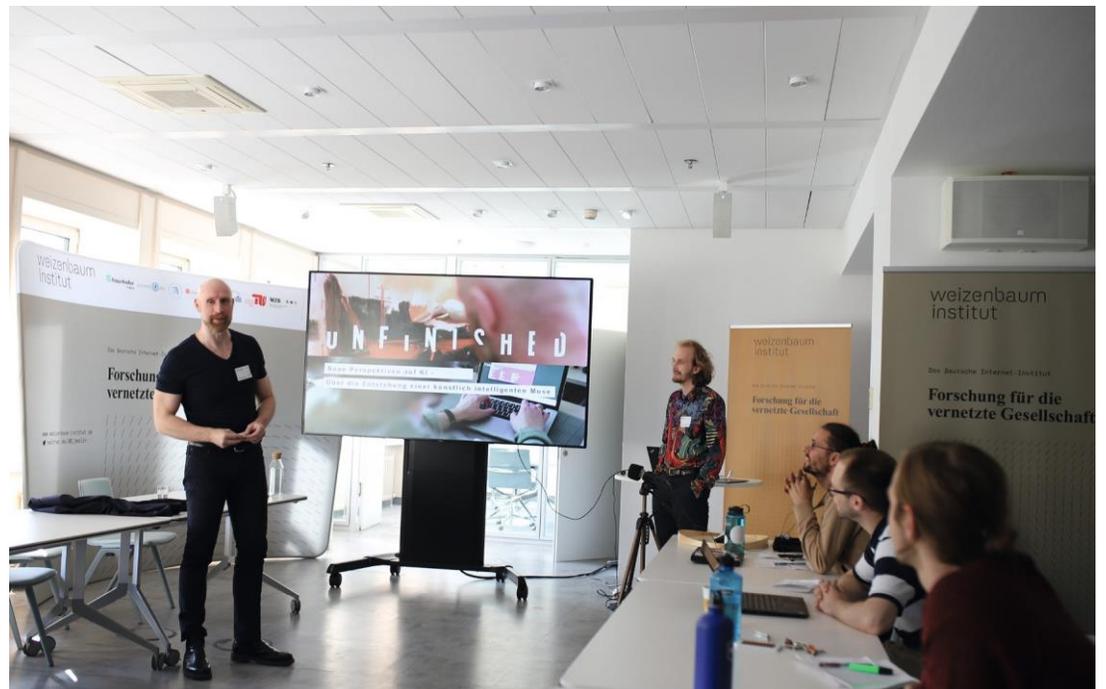
In their lecture, Roman Lipski (left) and Florian Dohmann (right) show how AI can promote human creativity.

SECURITY AND OPENNESS

This cross-sectional format, which transcends research groups and disciplines, seeks to promote discussion and joint research on topics that relate to the tension between security and openness. This breaks apart essentialist interpretations of openness and security and enables new ideas for combining both concepts to arise. The meetings in the reporting period involved the clarification of concepts and the discussion of their relationship, for example, in a system of coordinates concerning antipodes. In addition, the cross-sectional format has sought to translate fundamental questions of the ethics and political design of the relationship between technology and society into formats that transcend previous cognitive and normative boundaries and can also reach a broad public, for example, through innovative publication formats.

Past meetings in the reporting period, each with the corresponding lectures included:

> Selma Lamprecht: "Utopia Predictive Policing" (lecture, September 18, 2018)

> Niklas Rakowski: "Anwendungsbeispiel Patentrecht" (lecture, September 18, 2018)

> Group discussion "Sicherheit und Offenheit" (Research Days, November 20, 2018)

> Richard Huber: "17-jähriger Schüler aggregiert Daten von Bundestagsabgeordneten – was können wir daraus lernen?" (lecture, January 9, 2019)

> Hannes Wünsche: "Verlässlichkeit und Offenheit wissenschaftlichen Wissens" (Brown Bag Coffee Talk, January 31, 2019)

> Dr. Nina Amelung: "Infrastructuring data-publics: Implicated publics in transnational biometric database systems" (Fellow Talk, March 11, 2019)

> Prof. Dr. Frank Kargl: "Big Data and Privacy – Can we have both?" (Weizenbaum Lecture, April 25, 2019)

> Dr. Mareile Kaufmann: "Hacking as a practice of disputing online surveillance" (Fellow Talk, June 11, 2019)

> Dr. Isabel Steinhardt: "Qualitative Methods and Open Science" (Fellow Talk, July 4, 2019)

> Dr.-Ing. Martin Florian "Sicherheit durch Offenheit?" (lecture, September 10, 2019)

Under the auspices of the cross-sectional format "Security and Openness", Dr. Nina Amelung gave a lecture on data publics.

DIGITISATION AND SUSTAINABILITY

This cross-sectional format analyses the transformation towards a sustainable networked society and identifies visions, new patterns of thought and social changes. This transformation includes the sustainable digitalisation of energy, resources and work as well as the use of information and communication technologies (ICT) to achieve the UN Sustainable Development Goals of the Agenda 2030 (abbreviation: SDGs). In a first step, an epistemological visualisation of discursive processes at the interface between SDGs and ICT (e.g. various key concepts, regulations, arguments) was developed in order to create a basis for further discussions and interdisciplinary cooperation at the Weizenbaum Institute. The normative dimension is the focus of our research, based on the SDGs.

An important contribution of this cross-sectional format is the development of an interactive installation, the so-called "automation demystification discourse machine" (ADDM),which playfully explains algorithms and was presented at the Bits & Bäume Conference 2018 and as a book presentation 2019. It was developed in cooperation with research groups 1, 4, 5, 6, 18 and 20 and the network partner WBGU. ADDM aims to make abstract terms related to automation understandable in order to create a discourse

on the meaning and purpose of automation technologies and human-machine interaction. More specifically, ADDM convers topics ranging from the division of labour to the current question of whether a dynamic machine can also perform intellectual activities such as learning, which were previously entrusted to humans. ADDM was presented at the Bits & Bäume Conference along with four modules: automation, image processing, imitation games and machine learning. The aim of ADDM is to make human-machine interaction with users in analog space tangible and understandable. This also makes the connection between automation and sustainability visible. Here, sustainability means more than ecology: We focus on economic sustainability and, above all, on sustainable education. For us, this involves developing open learning materials through integrative scientific approaches, as we have done with ADDM.

This cross-sectional format is being promoted by research groups 4, 5 and 6. The development of further knowledge tools is already being planned in order to explain aspects of the cross-sectional format from a legal, economic, ethical and technological point of view, and to bring them closer to the networked society.

Research group leader Dr. Stefan Ullrich introduces the
automation demystification discourse machine (ADDM)

IV. Management, administrative office and committees

4.1 Organisational Chart

Board of Trustees

Directors

Advisory Board

Principal Investigators

Scientific Council

I	Work, innovation and value creation	II	Contract & responsibility on digital markets	III	Knowledge, education and social inequality
1	Working in highly automated digital-hybrid processes	4	Data as a Means of Payment	7	Education and Advanced Training in the Digital Society
2	Production Possibilities of the Maker Culture	5	Data-Driven Business Model Innovation	8	Inequality and Digital Sovereignty
3	Work and Cooperation in the Sharing Economy	6	Responsibility and the Internet of Things	9	Digital Technologies and Well-Being
				10	Digital Integration

Head office

Management
Consortium
coordination
Event and transfer management Press
and public relations Commercial
administration
IT Administration

IV   Democracy, Participation and the Public Sphere

12   Democracy and Digitalisation

13   Digital Citizenship

14   News, Campaigns and the Rationality of Public Discourse

15   Digitalisation & the Transnational Public Sphere

V   Governance and Norm Setting

16   Shifts in Norm Setting

17   Trust in Distributed Environments

18   Quantification and Social Regulation

VI   Technological

19   Digitalisation and Networked Security

20   Criticality of AI-based systems

4.2 Scientific management

The scientific management of the Weizenbaum Institute
consists of a seven-member Board of Directors and the
principal investigators (PIs).

F.l.t.r.: Prof. Dr. Barbara Pfetsch, Prof. Dr. Jeanette Hofmann, Prof. Dr. Dr. Thomas Schildhauer,
Prof. Dr. Niels Pinkwart, Prof. Dr. Norbert Gronau, Prof. Dr.-Ing. Ina Schieferdecker,
Prof. Dr. Axel Metzger, Prof. Dr. Hanna Krasnova, Prof. Dr. Gesche Joost,
Prof. Dr. Herbert Zech, Prof. Dr. Björn Scheuermann, Prof. Dr. Manfred Hauswirth,
Prof. Anja Feldmann, Ph.D., PD Dr. Martin Krzywdzinski, Prof. Dr. Martin Emmer and
Prof. Dr. Sascha Friesike

BOARD OF DIRECTORS

The Board of Directors of the Weizenbaum Institute for the Networked Society consists of the five W3 professorships to be filled at the participating universities and one representative each of the WZB and Fraunhofer FOKUS. The legal representation of the Weizenbaum Institute is carried out by the management of the WZB.

The task of the new seven-member scientific directorate, which has been active since April 2019, is the scientific-strategic coordination of the consortium project. Additionally, the Board of Directors is responsible for conceptually developing the Weizenbaum Institute.

In the current phase, the Board of Directors, in cooperation with the head office, is responsible for coordinating the institute's research groups and projects, as well as:

The development of concepts for the establishment and strategic further development of the institute with the participation of the PIs,

The establishment and dissolution of research groups, including the designation and removal of PIs,

The coordination of the institute's strategic communication,

The development of a concept for the scientific reporting, and

The organisational development of the institute as well as the preparation of the institute for evaluation by the BMBF.

The members of the new Board of Directors are the executive director Prof. Dr. Herbert Zech (HU Berlin), his deputy Prof. Dr. Barbara Pfetsch (FU Berlin) and his deputy Prof. Dr. Sascha Friesike (UDK Berlin), the directors Prof. Dr.-Ing. Ina Schieferdecker (Fraunhofer FOKUS) and Prof. Dr. Hanna Krasnova (University of Potsdam) as well as the directors PD Dr. Martin Krzywdzinski (WZB) and Prof. Dr. Manfred Hauswirth (TU Berlin). Portraits of the Board of Director's new members can be found in Section 1.

PRINCIPAL
INVESTIGATORS

PIs are professors and employees of the respective partner institutions and the researchers of the institute who are mainly responsible for the research groups.

The PIs ensure the coherence and further development of the research programme as well as the scientific excellence and thematic range of the institute's research. They determine the scientific-strategic orientation of their research groups and promote cooperation with other research groups. They encourage the establishment or dissolution of research groups, cross-sectional formats and projects and develop guidelines for work in the research groups. They advise the Board of Directors on the preparation of concepts for the institute's strategic further development and participate in preparing the institute for evaluation by the BMBF.

The following PIs were active at the institute during the reporting period: Prof. Dr. Martin Emmer (FU Berlin), Prof. Anja Feldmann, Ph.D. (TU Berlin), Prof. Dr.-Ing. Norbert Gronau (Uni Potsdam), Prof. Dr. Manfred Hauswirth (TU Berlin/Fraunhofer FOKUS), Prof. Dr. Jeanette Hofmann (WZB), Prof. Dr. Gesche Joost (UdK Berlin), Prof. Dr. Hanna Krasnova (Uni Potsdam), PD Dr. Martin Krzywdzinski (WZB), Prof. Dr. Axel Metzger, LL.M. (Harvard) (HU Berlin), Prof. Dr. Barbara Pfetsch (FU Berlin), Prof. Dr. Niels Pinkwart (HU Berlin), Prof. Dr. Björn Scheuermann (HU Berlin), Prof. Dr.-Ing. Ina Schieferdecker (TU Berlin/Fraunhofer FOKUS), Prof. Dr. Dr. Thomas Schildhauer (UdK Berlin), Prof. Dr.-Ing. Thomas Wiegand (Fraunhofer HHI) und Prof. Dr. Herbert Zech (HU Berlin).

4.3 Science management and administration

The Weizenbaum Institute's head office coordinates the cross-consortium activities and, together with the Board of Directors, is responsible for the management of the consortium, the programmes for training young scientists, the strengthening of interdisciplinarity and the press and public relations work. In addition, the head office coordinates events and knowledge transfer in politics, business and society.

F.l.t.r.: Roland Toth, Katharina Stefes, Maite Vöhl, Claudia Oellers, Ramona Haubold, Johanna Hampf, Patrick Kuna, Dr. Karin-Irene Eiermann, Kiyan Farmand, Tuna Zeynep Güleser, Filip Stiglmayer, Leonie Schipke, Dr. Iris Cseke, Nora Schiller and Esra Eres

OFFICE MANAGEMENT

The head office manager Dr. Karin-Irene Eiermann manages the institute in all administrative and technical matters in consultation with the executive director. She plans the resource use and manages competence areas and tasks of the head office. She acts as a communication interface with the funding agencies and, together with the Board of Directors, is responsible for strategic conception of the areas of promoting young researchers, public relations, transfer and outreach and internationalisation. She is also responsible for establishing and running the institute's headquarters and for real estate matters, in close coordination with the consortium coordinator WZB. In the period under review, the focus was on setting up an occupational health structure and planning and coordinating the furnishing of the newly rented premises on the ground floor of the institute's building. Maite Vöhl is the assistant to the management.

NETWORK COORDINATION

The consortium coordinators are Dr. Iris Cseke and Claudia Oellers. Their tasks include the development and implementation of the cross-consortium interdisciplinary cooperation formats, the coordination of committee meetings and PI strategy meetings, the shaping of programmes for young researchers and fellows at the Weizenbaum Institute and the initiation of cooperations and partnerships. In the period under review, they developed and implemented measures such as the research retreat, prepared for delegation visits and drew up internal rules and strategic documents. They supported internal and external communication at the institute by moderating and taking the minutes of meetings, such as the internal workshop on the mission statement and the guidelines for the research groups.

PRESS AND PUBLIC RELATIONS WORK

At the centre of the work of the press and public relations office, which is headed by Filip Stiglmayer, was the development and implementation of a new corporate design for the Weizenbaum Institute as well as the launch of the new website. Both projects have now been successfully completed, and an events newsletter and a press newsletter have also been introduced. Publication and open access strategies were also further developed during the reporting period. Roland Toth is in charge of implementing the Weizenbaum Institute's publication strategy. The press and public relations assistant is Katharina Stefes, who is also responsible for online content.

EVENTS AND TRANSFER

The head office is in charge of organising and carrying out transfer events in science, politics and society. This area is managed by Johanna Hampf. Major projects in this reporting period included the second Weizenbaum Conference entitled "Challenges of Digital Inequality. Digital Education | Digital Work | Digital Life", the parliamentary evening on "The Privacy Paradox: Data Protection and/or Data Management", the participation in the Berlin Science Week and the implementation of the event series Weizenbaum Lectures, Fellow Talks and Weizenbaum Meets.

BOARD OF
DIRECTORS
COORDINATION

Since June 1, 2019, Ramona Haubold, in a newly created position, has been coordinating and substantively guiding the seven-member Board of Directors of the Weizenbaum Institute in preparing its strategic decisions. Ramona Haubold acts as an interface to the head office in questions of the institute's structure, orientation and management and works closely with the officers in the administration. She is responsible for organisational and administrative matters at TU Berlin and is the contact person for financial processing and controlling.

CONTROLLING,
PURCHASING
AND REAL
ESTATE

The head office establishes the funding requirements and, in coordination with the consortium coordinator WZB, is responsible for procurement, including the equipment for the newly rented ground floor and ongoing operations. Tuna Zeynep Güleser supports these tasks as a commercial assistant in the office.

IT ADMINISTRATION

Finally, IT coordination also falls under the head office's remit. In the period under review, IT system administrators Patrick Kuna and Jan Schümann provided first-level IT support and supported the provision of IT infrastructure, from the installation of workstation computers to the installation of a telephone system.

SUPPORT FOR THE
HEAD OFFICE

Four student employees are employed in the head office. Esra Eres and Nora Schiller support the institute's public relations work in the fields of graphics, photography and social media. Leonie Schipke is involved in the conception and implementation of transfer events. Kiyan Farmand supports consortium coordination in committee work and assists the development of strategic documents.

4.4 Committees

Three committees support the work of the Weizenbaum Institute at different levels. Their mode of establishment and tasks are laid down in the institute's rules of procedure.

BOARD OF TRUSTEES

The Board of Trustees advises the Board of Directors on the strategic direction of the institute and its organisation. It consists of the presidents of the consortium partners or their deputies, two representatives of the BMBF and one representative of the State of Berlin. The chair of the Board of Trustees and the deputy chair are appointed by the BMBF.

The Board of Trustees meets once a year, in November. During the reporting period, the Board of Trustees held its meeting on November 19, 2018. Another extraordinary meeting of the Board of Trustees took place on June 17, 2019.

MEMBERS:

Ministerial Director Matthias Graf von Kielmansegg, head of Department 1: "Fundamental Issues, Strategy, Digital Change", BMBF

Undersecretary Dr. Angelika Willms-Herget, head of Subdivision 42 "Research Institutions", BMBF

Prof. Dr.-Ing. Reimund Neugebauer, president, Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e. V.

Prof. Dr. Günter M. Ziegler, president, Freie Universität Berlin

Prof. Dr.-Ing. Dr. Sabine Kunst, president, Humboldt-Universität zu Berlin

Steffen Krach, state secretary for science and research to the governing mayor of Berlin, Senate Chancellery Berlin

Prof. Dr. Christian Thomsen, president, Technische Universität Berlin

Prof. Martin Rennert, president, Berlin University of the Arts

Prof. Dr. Oliver Günther, president, University of Potsdam

Prof. Dr. h.c. Jutta Allmendinger, Ph.D., president, Berlin Social Science Center (WZB)

ADVISORY BOARD

The Advisory Board advises the Board of Directors and the head office on the development and implementation of the institute's strategic orientation, its transfer formats, its work with network partners and its external presentation. The Advisory Board is made up of representatives from science, civil society, politics, business and the media.

With the transition from the founding phase to the expansion phase from April 2019, there was a transition from the founding Advisory Board to a more scientifically oriented council. It consists of ten academic members and four representatives from civil society, politics, business and the media. The inaugural meeting of the new Advisory Board took place on July 8, 2019. The Advisory Board meets at least once a year in accordance with its rules of procedure.

MEMBERS:

Prof. Dr. Christoph Bieber, Institute for Political Science, University of Duisburg-Essen/scientific coordinator, Center for Advanced Internet Studies (CAIS)

Prof. em. Dr. Uta Brandes, design researcher, Köln

Prof. Dr. Johannes Buchmann, Department of Computer Science, head of CDC – Theoretical Computer Science - Cryptography and Computer Algebra, Technische Universität Darmstadt

Prof. Dr. Peter Buxmann, Department of Law and Economics, Chair of Information Systems / Software & Digital Business, Technische Universität Darmstadt

Prof. em. Dr. Dr. h.c. mult. Martin Grötschel, president of the Berlin-Brandenburg Academy of Sciences and Humanities, Berlin

Prof. Dr. Christiane Eilders, Chair of Communication and Media Studies, Heinrich-Heine-Universität Düsseldorf (Chair)

Saskia Esken, member of the German Bundestag, full member of the Enquete Commission "Artificial Intelligence"

Prof. Dr. Konrad Förstner, head of the programme area "Provision of Information Services" at the ZB MED - Life Sciences Information Centre, Technical University of Cologne

Prof. Dr. Sabine Pfeiffer, Chair of Sociology (Technology - Work - Society), Fried-rich-Alexander-Universität Erlangen-Nürnberg

Prof. Dr. Indra Spiecker gen. Döhmann, LL.M. (Georgetown), Chair in Public Law, Information Law, Environmental Law, Administrative Science, Goethe University of Frankfurt am Main

Prof. Dr. Stephan Weichert, course director digital journalism/head of "Digital Journalism Initiative", Hamburg Media School gGmbH (deputy chair)

Joanna Schmölz, digital strategist, Senate Chancellery Free and Hanseatic City of Hamburg

Harald Summa, managing director of eco – Verband der Internetwirtschaft e.V.

Stefan Sauer, member of the German Bundestag, deputy chairman of the Enquete Commission "Artificial Intelligence"

SCIENTIFIC COUNCIL

The Scientific Council advises the Board of Directors and the head office on all essential matters of the institute, in particular on questions of strategic and scientific priorities and the design of formats for scientific work and transfer formats. The Scientific Council is made up of one PI per consortium partner and two representatives each of the research group leaders, the scientific staff, the student assistants and the administrative and technical staff. The executive director Prof. Dr. Herbert Zech, his deputy Prof.Dr. Sascha Friesike and his deputy Prof.Dr. Barbara Pfetsch as well as the head office manager Dr. Karin-Irene Eiermann attend the meetings in an advisory capacity. During the reporting period, the Scientific Council met on October 23, 2018, January 22, 2019, April 30, 2019 and August 13, 2019.

MEMBERS:

PRINCIPAL INVESTIGATORS

Prof. Anja Feldmann, Ph.D.
(TU Berlin)

Prof. Dr. Manfred Hauswirth
(TU Berlin/Fraunhofer FOKUS)

Prof. Dr. Jeanette Hofmann
(WZB)

Prof. Dr. Hanna Kransova
(University Potsdam)

Prof. Dr. Barbara Pfetsch
(FU Berlin)

Prof. Dr. Niels Pinkwart
(HU Berlin)

Prof. Dr. Dr. Thomas Schildhauer
(UdK Berlin)

RESEARCH GROUP LEADERS

Dr. Sonja Schimmler
(Fraunhofer FOKUS)

Dr. Thorsten Thiel
(WZB)

DOCTORAL CANDIDATES

Katharina Baum
(Uni Potsdam)

Alexander Schiff
(HU Berlin)

STUDENT EMPLOYEES

Esra Eres
(WZB)

Jan Kopankiewicz
(Fraunhofer FOKUS)

ADMINISTRATIVE-TECHNICAL EMPLOYEES

Sonata Cepik
(WZB)

Annika Schütz
(FU Berlin)

V.
Memberships, positions & functions

PROF. DR. MARTIN EMMER

Professor at the Freie Universität Berlin, Department of Political and Social Sciences, Centre for Media Usage

Executive director of the Institute for Media and Communication Studies at Freie Universität Berlin (until May 2019)

Principal investigator at the Einstein Center Digital Future

Member of the Advisory Board of DEKRA Hochschule für Medien

Member of the Expert Commission for the Third Engagement Report of the Federal Government
"Future of Civil Society: Young Engagement in the digital age."

PROF. ANJA FELDMANN, PH.D.

Director at the Max Planck Institute for Informatics

Member of the Berlin-Brandenburg Academy of Sciences and Humanities, member of the interdisciplinary working group "Responsibility in the digital Age".

Member of Academia Europaea

Member of the working group "Big Data - Data Protection - Privacy" of Leopoldina - National Academy of Sciences

Member of the Committee for Communication and Information of the German Commission for UNESCO

Member of the scientific advisory board, Leibniz Centre for Research in Computer Science of the Leibniz Association

Member of the Executive Committee eco - Verband der Internetwirtschaft e. V.

Member of the Board of Trustees of the Gemeinnützige Gesellschaft zur Förderung des Forschungstransfers e. V.

Principal investigator at the Berlin Big Data Center

PROF. DR. SASCHA FRIESIKE

Professor for Designing Digital Innovation at the Berlin University of the Arts

Head of the Leadership in Digital Innovation degree programme at the University of the Arts Berlin

Affiliated professor at the KIN Center for Digital Innovation at theVrije Universiteit Amsterdam

Associate researcher at the Alexander von Humboldt Institute for Internet and Society

Delegated representative of the German Forschungsgemeinschaft in the working group Science Practice of the Allianz-Initiative Digital Information

Member of the Knowledge Exchange Open Scholarship Advisory Group

Mentor in the Fellowship Program "Free Knowledge" by Wikimedia

PROF. DR.-ING. NORBERT GRONAU

Professor at the University of Potsdam,

Chair of Business Informatics

Chairman of theWissenschaftliche Gesellschaft für Arbeits- und Betriebsorganisation e. V.

Spokesperson of the Board of the Institut für Wirtschaftsinformatik und Digitale Gesellschaft e. V.

Member of the National Academy of Science and Engineering (acatech)

Member of the Board of Trustees of the Heinz-Nixdorf Institute

PROF. DR. MANFRED HAUSWIRTH

Director of the Fraunhofer Institute for Open Communication Systems (FOKUS)

Professor at the Technische Universität Berlin, Department of Open Distributed Systems

Principal investigator at the Berlin Big Data Center

Spokesperson of the Fraunhofer Performance Center Digital Networking (until 31.12.2018)

Principal investigator at the Einstein Center Digital Future

Shareholder representative (Fraunhofer) of EIT ICT Labs Germany GmbH

Member of the Scientific Steering Committee of the Daimler Center for Automotive Information Technology Innovations

Member of the Scientific Advisory Board HUB4NGI

Member of the Scientific Advisory Board Safety-critical Human-and Data-centric Process Management in Engineering Projects (SHAPE)

Member of the scientific advisory board of CONNECT, Ireland's national research centre for Future Networks and Communications

Member of the Association for Computing Machinery

Member of the German Informatics Society

Senior Member of the Institute of Electrical and Electronics Engineers (IEEE)

Member of the IEEE Computer Society Conference Advisory Committee

Principal investigator at the Helmholtz Einstein International Berlin Research School in Data Science

Member of the Digital Economy Sector Committee of the Berlin Chamber of Industry and Commerce

PROF. DR. JEANETTE HOFMANN

Member of the Advisory Board of the Center for Interdisciplinary Risk and Innovation Studies, University of Stuttgart

Member/Advisory Committee for Digitalisation and Sustainability, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety

Chairwoman of the Expert Commission for the Third Engagement Report of the Federal Government
"The Future of Civil Society: Young Engagement in the Digital Age."

Member of the Expert Group of the EU Observatory on the Online Platform Economy.

Research Group Leader at the Berlin Social Science Center (WZB)

Special Professor at Freie Universität Berlin, Department of Political and Social Sciences

Honorary Professor at the Berlin University of the Arts

Research Director at the Alexander von Humboldt Institute for Internet and Society

Member of the scientific commission "Digitalized Society" of the Leopoldina - National Academy of Sciences

Spokesperson of the planning group "Digitization & Democracy" of the Leopoldina – National Academy of Sciences

Member of the working group "Big Data - Data Protection - Privacy" of Leopoldina - National Academy of Sciences

Member in the Program Advisory Council of the RCUK Centre for Copyright and New Business Models in the Creative Economy (CREATe)

Member of the International Scientific

Advisory Board of the Internet Inter disciplinary Institute (IN3)

Member of the Committee for Communication and Information of the German UNESCO Commission

Member of the Grüne Akademie of the Heinrich Böll Foundation

Member of the discussion group "Digital Responsibility", Facebook

PROF. DR. GESCHE JOOST

Professor at the Berlin University of the Arts

Member of the speaker circle of the Einstein Center Digital Future

Supervisory Board member SAP

Supervisory Board member Ottobock

Supervisory Board member ING DiBa

Member of the Board of the Studienstiftung des deutschen Volkes

Founder of Calliope gGmbH

Member of the Synod of the Evangelical Church Germany

Member of the Board of Trustees of the Telekom Foundation

Member of the Board of the German Gesellschaft für Designtheorie und -forschung e.
 V.

Research Group Leader of the German Research Center for Artificial Intelligence

Member of the Volkswagen Sustainability Advisory Board

Member of the Commission of Experts for the Third Enga-

gement report of the Federal Government "The Future of Civil Society: Young Engagement in the Digital Age."

PROF. DR. HANNA KRASNOVA

Professor at the University Potsdam, Chair for Business Informatics, especially Social Media and Data Science

Member of the Association for Information Systems

Member of the board of directors of the Institut für Wirtschaftsinformatik und Digitale Gesellschaft e. V.

PD DR. MARTIN KRZYWDZINSKI

Head of the Research Group "Globalisation, Work and Production" at the Berlin Social Science Center (WZB)

Member of the Executive Board of the Section of Sociology of Work and Industry of the German Sociological Association

Member of the Programme Committee of the Priority Program "Digitization of Work Environments" of the German Research Foundation (DFG)

Member of the Scientific Advisory Board of the "Future of Work" Program of the Massachusetts Institute of Technology

Member of the International Steering Committee of the automotive research network GERPISA

PROF. DR. AXEL METZGER

Professor at the Humboldt-Universität zu Berlin

Vice Dean for Research of the Faculty of Law of the Humboldt-Universität zu Berlin

Head of the Arbitration Board of the Deutsche Gesellschaft für Recht und Informatik (German Society for Law and Informatics)

Co-Rapporteur (co-management) of the commission "Intellectual Property and Private International Law" of the International Law Association

Founding member of the Institute for Legal Issues of Free and Open Source Software

Member of the German Association for the Protection of Intellectual Property and Professor at the Faculty of the Berlin Graduate School of Transnational Studies

Copyright Law, Expert Committee for Copyright and Publishing Law, Software Working Group

Member of the German Gesellschaft für Recht und Informatik

Member of the European Copyright Society

Member of the European Law Institute

Arbitrator at the German Institution of Arbitration (Deutsche Institution für Schiedsgerichtsbarkeit e. V.) V.

PROF. DR. BARBARA PFETSCH

Professor at the Freie Universität Berlin, Department of Politics and

Social Science

Project manager of the project B5 "Translocal Networks", Special Research Center 1265 "Re-Figuration of Spaces" of the German Research Foundation (DFG)

Member of the Europe Committee of Social Science One, Representative for Germany

Principal investigator at the Einstein Center Digital Future

Member of the Expert Commission for the Evaluation of the Research Information Services of the German Research Foundation (until December 2018)

Ombudswoman and member of the Scientific Advisory Board of the Leibniz Institute for Media Research, Hans Bredow Institute

Member of the working group "Digitalization and Democracy" of the Leopoldina - National Academy of Sciences

Member of the Selection Committee of the Ithiel de Sola Pool Award of the American Political Science Association

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Member of the executive committee of the division CSCW & Social Computing of the Gesellschaft für Informatik e. V.

Member of the working group Learning Analytics of the Gesellschaft für Informatik e. V.

Member of the Advisory Board of the KES Verbund von Arbeit und Leben e. V., Working Group Berlin

Member of the Advisory Board of the Zuse Computer Museum (ZCOM) in Hoyerswerda

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Member of the Advisory Board of the Blockchain & Society Lab of the University Amsterdam

Member of the extended executive committee of the department Communication and Distributed Systems of the Gesellschaft für Informatik e. V.

Research Director at the Alexander von Humboldt Institute for Internet and Society

Lecturer of the Studienstiftung des deutschen Volkes

Member of the Gesellschaft für Informatik

Jury member of the German IT-Security Award of the Horst Görtz Foundation

Jury member of the Dissertation Award of the Gesellschaft für Informatik e. V.

Principal investigator at the Einstein Center Digital Future

Principal investigator at the Helmholtz Einstein International Berlin Research School in Data Science

PROF. DR.-ING. INA SCHIEFERDECKER

Director of the Fraunhofer Institute for Open Communication Systems (FOKUS)

Professor at the Technische Universität Berlin, Department for Quality Engineering of Open Distributed Systems

Member of the Federal government's scientific council on global environmental change

Member of the Information and Communication Technology Network of the German Academy of Science and Engineering (acatech)

Member of the steering committee of the Science Platform Sustainability 2030

Member of the scientific working group for Regulatory Issues of the Federal Network Agency

Member of the research committee of the Münchner Kreis e.V.

Member of the Hightech Forum 2025 of the Federal Ministry of Education and Research

Member of the Commission of Lower Saxony 2030

Member of the Board of Directors of the Fraunhofer Berlin Center for Digital Transformation

Member of the steering committee of the SINTEG project WindNODE, funded by the Federal Ministry of Economics and Technology

Member of the strategic platform Information and Communication Technology of the Federal Ministry of Education and Research

Principal investigator at the Einstein Center Digital Future

Member of the Board of Directors of the Fraunhofer Academy

President of the working group Software-Qualität und Fortbildung e. V.

Member of the Board of the Technologiestiftung Berlin

Spokesperson of the Smart City Netzwerk Berlin (until February 2019)

Member of the German Testing Board

Member of the jury for the German Environmental Award

Member of the jury for the Berlin Science Prize

PROF. DR. DR. THOMAS SCHILDHAUER

Professor at the Berlin Career College at the Berlin University of the Arts,

Managing director of the Berlin Career College at the University of the Arts Berlin

Director of the Institute of Electronic Business at the Berlin University of the Arts.

Research director at the Alexander von Humboldt Institute for Internet and Society

Member of the Technology Advisory Board Berlin Partner

Member of the Advisory Board of Skubch&Company GmbH

Member of the Advisory Board of Neuem

GmbH Member of the Advisory Board of

equeo GmbH

Member of the Advisory Board of EDUMode Software GmbH

Member of the supervisory board of Bluechip Computer AG

Member of the supervisory board of cbe AG

Member of the supervisory board of Stone One AG

Principal investigator at the Einstein Center Digital Future

Member of the Advisory Board of Industry 4.0 of the German Academy of Science and Engineering (acatech)

Jury member of the Diamond Star Innovation Award of the Handelsblatt

Member of the Berlin-Brandenburg Academy of Sciences and Humanities

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Director of the Fraunhofer Heinrich Hertz Institute

Professor at the TU Berlin for Media Technology

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Fellow of the Institute of Electrical and Electronics Engineers

Chair of the ITU/WHO Focus Group on Artificial Intelligence for Health

Member of the German Academy of Science and Engineering (acatech)

Member of the jury for the Innovation Prize of the Vodafone Foundation for Research

PROF. DR. HERBERT ZECH

Board member of the German Gesellschaft für Recht und Informatik
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Co-Chairman of the Technical Committee "Recht der Daten" of the GermanVereinigung für gewerblichen Rechtsschutz und Urheberrecht e. V.

Member of the Expert Group on liability and new technologies of the EU commission

Member of the European Law Institute

Member of the Institute for Intellectual Property (INGRES)

VI.
Facts and figures

6.1 Publications

RESEARCH GROUP 1:
WORKING IN HIGHLY AUTOMATED DIGITAL HYBRID PROCESSES

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WORK AND COOPERATION IN THE SHARING ECONOMY

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RESEARCH GROUP 4: DATA AS A MEANS OF PAYMENT

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∗THE CONTRIBUTIONS OF PROF. DR. AXEL METZGER, LL.M. (HARVARD) RELATE TO RESEARCH GROUPS 4 AND 16 AND ARE LISTED UNDER RESEARCH GROUP 4.

RESEARCH GROUP 5:
DATA-DRIVEN BUSINESS MODEL INNOVATION

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RESEARCH GROUP 8:
INEQUALITY AND DIGITAL SOVEREIGNTY

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DIGITAL TECHNOLOGIES AND WELL-BEING

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Köster, A. (Associate Editor): Track: "Cyber-security, Privacy and Ethics of IS", International Conference on Information Systems (ICIS 2019), Munich, December 13-16, 2018.

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RESEARCH GROUP 10: DIGITAL INTEGRATION

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RESEARCH GROUP 11:
DIGITALISATION AND SCIENTIFIC VALUE CREATION

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RESEARCH GROUP 12: DEMOCRACY AND DIGITALISATION

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RESEARCH GROUP 13: DIGITAL CITIZENSHIP

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RESEARCH GROUP 14:
NEWS, CAMPAIGNS AND THE RATIONALITY OF PUBLIC DISCOURSE

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RESEARCH GROUP 15:
DIGITALISATION AND THE TRANSNATIONAL PUBLIC SPHERE

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*THE CONTRIBUTIONS OF PROF. DR. BARBARA PFETSCH RELATE TO RESEARCH GROUPS 14 AND 15 AND ARE LISTED UNDER RESEARCH GROUP 14.

RESEARCH GROUP 16: SHIFTS IN NORM SETTING

PEER-REVIEWED JOURNALS

Schiff, A. (2018): Anmerkung zu BGH, Urteil v. 20.02.2018, Az. VI ZR 30/17, "Ärztebewertungsportal IV". In: Zeitschrift für Datenschutz, 2018 (11), p. 532-536.

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*THE CONTRIBUTIONS OF PROF. DR. AXEL METZGER, LL.M. (HARVARD) RELATE TO RESEARCH GROUPS 4 AND 16 AND ARE LISTED UNDER RESEARCH GROUP 4.

RESEARCH GROUP 17:
TRUST IN DISTRIBUTED ENVIRONMENTS

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Naumann, R./Dietzel, S./Scheuermann, B. (2019): "Push the Barrier: Discrete Event Protocol Emulation". In: IEEE/ACM Transactions on Networking, 27 (2), p. 635–648.

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RESEARCH GROUP 18:
QUANTIFICATION AND SOCIAL REGULATION

PEER-REVIEWED JOURNALS

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∗THE CONTRIBUTIONS OF PROF. DR. JEANETTE HOFMANN RELATE TO RESEARCH GROUPS 12 AND 18 AND ARE LISTED UNDER RESEARCH GROUP 12.

RESEARCH GROUP 19:
DIGITALISATION AND NETWORKED SECURITY

PEER-REVIEWED CONFERENCE
PROCEEDINGS

Lutz, O./Kröger, J./Schneiderbauer, M./Hauswirth, M. (2019): "Surfing in Sound: Sonification of hidden web tracking". Proceedings of the International Conference on Auditory Display (June 23-27, 2019), Newcastle, UK, p. 306-309.

Tehrani, P. F./Restel, H./Jendreck, M./Pfennigschmidt, S./ Hardt, M./Meissen, U. (2018): "Toward Privacy by Design in Spatial Crowdsourcing in Emergency and Disaster Response", 2018 5th International Conference on Information and Communication Technologies for Disaster Management (ICT-DM) (Datum 2018), Sendai, Japan, p. 1-9.

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18. FORSI-Sicherheitswirtschaftstage, p. 69-72.

RESEARCH GROUP 20:
CRITICALITY OF AI-BASED SYSTEMS

PEER-REVIEWED CONFERENCE PROCEEDINGS

Kazimzade, G. (2018): "The Future of AI in Education: Addressing Bias and Inclusion", Extended Abstract Submission at OEB Learing Technologies Conference (December 5-7, 2018), Berlin, Germany.

Miceli, M. (2019): "AI's Symbolic Power: Classification in the Age of Automation", Proceedings of the ACM CHI Conference on Human Factors in Computing Systems (CHI2019) (May 4-9, 2019), Glasgow, UK, p. 1-4.

Rüdian, S./Vladowa, G./Gundlach, J./Pinkwart, N./Kazimzade, G. (2019): "Predicting Personality and Culture in Online Courses", AIED Supporting Life-long Learning Workshop (June 29, 2019), Chicago, USA.

Schüßler, M./Weiß, P. (2019): "Minimalistic Explanations: Capturing the Essence of Decisions", Extended Abstracts of the ACM CHI Conference on Human Factors in Computing Systems (CHI EA ,19)., New York, NY, USA, Paper LBW2810.

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Kazimzade G./Patzer, Y./Pinkwart, N. (2019): "Artificial Intelligence in Education meets Inclusive Educational Technology – The Technical State-of-the-Art and Possible Directions". In Knox, J., Wang, Y, Gallagher, M. (Eds.): Artificial Intelligence and Inclusive Education, Springer, Berlin, p. 61-73.

Schieferdecker, I./Ritter, T. (2018): "Advanced Software Engineering". In: R. Neugebauer (Ed.): "Digitalisierung: Schlüsseltechnologien für Wirtschaft und Gesellschaft, Springer, Berlin, Heidel-berg, p. 365-383.

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Schweizer, M./Zech, H. (Ed.) (2019): "Stämpflis Handkommentar PatG", Stämpfli Verlag, Bern, 2019.

Zech, H. (2019): "Die 'Befugnisse des Eigentümers' nach § 903 Satz 1 BGB – Rivalität als Kriterium für eine Begrenzung der Eigentums- wirkungen". In: Archiv für die civilistische Praxis (AcP), 2019 (219), p. 488–592.

Zech, H. (2019): "Künstliche Intelligenz und Haftungsfragen", In: Zeitschrift für die gesamte Privatrechtswissenschaft (ZfPW), 5. Jahrgang 2019, Heft 2, p. 198–219.

Zech, H. (2019): "Gene Sequence Data between Public Domain and Property", In: Gewerblicher Rechtsschutz und Urheberrecht, Internationaler Teil (GRUR Int.), 68. Jahrgang 2019, Heft 5, p. 453–456.

Zech, H. (2019): "Liability for Autonomous Systems: Tackling Specific Risks of Modern IT". In: Lohsse, S./Schulze, R./Staudenmayer, D. (Eds.): Liability for AI and the Internet of Things, Nomos, Baden-Baden, p. 187–200.

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WBGU (Report and policy paper) (2019): Schlacke, S./Messner, D., et al: "Unsere gemeinsame digitale Zukunft," 2019.

WBGU (Report and policy paper) (2019): Schlacke, S./Messner, D., et al: "Digitales Momentum für die UN-Nachhaltigkeitsagenda im 21. Jhd.", 2019.

WBGU (Report and policy paper) (2019): Schlacke, S./Messner, D., et al: "Eckpunkte eines Europäischen Weges in unsere gemeinsame digitale Zukunft", 2019.

WBGU (Report and policy paper) (2018): Schlacke, S./Messner, D., et al: "Digitalisierung: Worüber wir jetzt reden müssen", 2018.

Zech, H./Hofmann, F. (Annotation on court decision): "Privateigentum bedeutet Freiheit", Frankfurter Allgemeine Zeitung, Einspruch, July 15, 2019.

Zech, H./Grünberger, M./Klippel, D./Peifer, K.-N. (Ed.): Zeitschrift für Geistiges Eigentum / Intellectual Property Journal (ZGE).

6.2 Lectures

RESEARCH GROUP 1:
WORKING IN HIGHLY AUTOMATED, DIGITAL HYBRID PROCESSES

Butollo, F. (Keynote lecture): "Künstliche Intelligenz und Ethik", CEO Event der Unternehmensberatung Four Management, September 12, 2019.

Butollo, F. (Panel discussion): "Gut fürs Business, gut für alle?" Internet Governance Forum Germany, Berlin, September 11, 2019.

Butollo, F. (Lecture): "Data, Artificial Intelligence (AI) and Industrial Internet Platforms", SASE Conference New York, USA, June 27–29, 2019.

Butollo, F. (Lecture): "Organizing a Precarious Migrant Workforce. The Case of Ryanair", SASE Conference New York, USA, June 27–29, 2019.

Butollo, F. (Lecture in the framework of the BA seminar): "Industrial Upgrading and Work", "Political Economy of Development", FU Berlin, June 19, 2019.

Butollo, F. (Lecture): "Künstliche Intelligenz und ihre Gefahren", VHS Bielefeld, June 6, 2019.

Butollo, F. (Panel discussion): "Kollege Roboter- Wie künstliche Intelligenzen unsere Arbeitswelt verändern", organisiert vom Kirchlichen Dienst der Arbeitswelt und der Evangelischen Akademie, Ham- burg, April 2, 2019.

Butollo, F. (Lecture): "Data, AI and platforms", International Workshop "Digitalization, value chain governance and divisions of labour", Berlin, March 20–21, 2019.

Butollo, F. (Lecture): "Netzwerktechnologien und Produktionsnetzwerke. Überlegungen zur Restrukturierung von Wertschöpfungsketten durch KI, Plattformen und das Internet der Dinge", Forschungskolloquium Technik- und Innovationsforschung / Digitalisierung der Arbeitswelt, TU Berlin, December 12, 2018.

Butollo, F. (Lecture): "Arbeit 4.0' zwischen digitaler Dystopie und Schwarmintelligenz", Thinkfarm Kiel, October 29, 2018.

Butollo, F. (Lecture): "Smart Manufacturing und die Zukunft billiger Arbeit in China", Deutsche Botschaft in Beijing, China, October 25, 2018.

Butollo, F. (Lecture): "Globalisierung am Ende? Verschiebungen in Geografie und Machtverhältnissen in digitalisierten Produktionsnetz werken", Meeting "Kritik digitaler Arbeit. Ganzheitliche Produktionssysteme und Informationskapitalismus", Berlin, October 9, 2018.

Butollo, F. (Lecture): "Digitalisierung, vernetzte Produktion und Arbeit", AK Wirtschaft der Bundestagsfraktion Die Linke, Berlin, September 21, 2018.

Bretthauer, L./Kern, A./Koepp, R./ Meyer, C. (Lecture): "Autoritäre Formierung im digitalen Kapitalismus. Antidemokratische Konservative, Feinde einer offenen, solidarischen und gleichberechtigten Gesellschaft", Meeting of the Assoziation für kritische Gesellschaftsforschung Hamburg, November 30–December 2, 2018

Gerber, C./Koepp, R. (Lecture): "Old rule in new gowns? Conceptual framework and evidences for a digital Taylorism", International Labour Process Conference Vienna, Austria, April 24–26, 2019.

Krzywdzinski, M./Lechowski, G. (Lecture): "Governing 'digital transformation' through transnational technological standards: how collective standard-setting efforts reshape the industrial-automation sector", SASE Conference, New York, USA, June 27, 2019.

Krzywdzinski, M./Gerber, C. (Lecture): "Beyond the Iron Cage. Crowdworkers' Perception of and Interaction with Digital Reputation and Ranking Systems", SASE Conference, New York, USA, June 27, 2019.

Krzywdzinski, M. (Keynote): "Gute Arbeit: Herausforderungen für Forschung und Praxis", Meeting "Gute Arbeit in Brandenburg – Politik und Wissenschaft im Dialog", Bran-

denburger Ministerium für Arbeit, Soziales, Gesundheit, Frauen und Familie, Potsdam, May 29, 2019.

Krzywdzinski, M. (Keynote): "Digitalisierung: Verstärker bestehender Ungleichheiten bei Qualifizierungsmöglichkeiten?", 2. Berliner Runde "Bildungsarbeit nach vorne denken", IG Metall Vorstand, Berlin, May 23 2019.

Krzywdzinski, M. (Lecture & expert discussion): "Die Auswirkungen des Einsatzes von Künstlicher Intelligenz auf die Arbeitsbedingu gen", Vortrag im Fachgespräch zur Begleitung der Enquete-Kommission "Künstliche Intelligenz" des Deutschen Bundestages, Friedrich-Ebert-Stiftung/Wirtschaftsforum der SPD, Berlin, May 17, 2019.

Krzywdzinski, M. (Lecture & workshop): "Datenbasierte Entscheidungsunterstützung und die Auswirkungen auf Arbeit", Lecture at the Workshop "Künstliche Intelligenz und Entscheidungsunterstützungs-systeme in der Chemieindustrie", Stiftung Arbeit und Umwelt der IG BCE, Berlin, January 24, 2019.

Krzywdzinski, M. (Lecture): "Industrie 4.0 Technologies and Their Impact on Work", GERPISA Mini Conference "The Future of Manufacturing and Work in the Automotive Industry", Paris, Frankreich, January 11, 2019.

Krzywdzinski, M. (Lecture & workshop): "Soziologische Perspektiven auf den Wandel der Arbeitswelt", Lecture at the Workshop "Psychische Arbeitsbelastung – Gestaltungsgrundsätze", Bundesanstalt für Arbeitsschutz und Arbeitsmedizin, Berlin, December 11, 2018.

Krzywdzinski, M. (Lecture & design research colloquium): "Digitalisierung der Arbeit", UdK, Berlin, December 06 2018.

Krzywdzinski, M. (Lecture & workshop): "Sectoral and institutional conditions of innovation dynamics in Central Eastern Europe. The Polish Case", Lecture at "Trans-

forming the Transformation", Workshop of the Herder Wissenschaftsrats, Leipzig, November 29, 2018.

Krzywdzinski, M. (Lecture series): "Facharbeit unter Druck? Wandel der Industriearbeit im Kontext der Digitalisierung", Lecture as part of the lecture series "Standards guter Arbeit", University of Hamburg, November 28, 2018.

Krzywdzinski, M. (Lecture series): "Digitalisierung der Arbeitswelt. Substanzloser Hype oder radikaler Umbruch?", Lecture as part of the lecture series "Transformationen der Arbeitswelt", Technical University Berlin, November 27, 2018.

Krzywdzinski, M. (Lecture at conference):
"Roboter, Netzwerke, Plattformen – Digitalisierung in der Arbeitswelt", Lecture at the conference "Digitalisierung in der Praxis – 4. Forum Arbeitspolitik der IG BCE", Leipzig, September 18, 2018.

Vladova, G./Wotschack, P. (Lecture): "Unequal Training Participation and Training Experience at the Digital Work Place – An Interdisciplinary Study", Weizenbaum Conference 2019, Berlin, May 16–
17, 2019.

Warnhoff, K./De Paiva Lareiro, P. (Lecture): "Skill Development on the Shop Floor – Heading to a Digital Divide?", Weizenbaum Conference 2019, Berlin, May 16–17, 2019.

Wotschack, P. (Lecture): "When Do Companies Train Low Skilled Workers? The Role of Technological Change, Human Resources Practices, and Institutional Arrangements", Weizenbaum Conference 2019, Berlin, May 16–17, 2019.

Wotschack, P. (Lecture at workshop): "Handlungsfelder der Weiterbildung im digitalen Wandel". Lecture at the workshop "Digitalisierung, Organisationswandel und Qualifizierung", Berlin WZB, May 10, 2019.

OTHER

Butollo, F. (Interview) (2019): "Es wird genügend anspruchsvolle Tätigkeiten geben" In: Brand eins 20 (9), p. 96–99.

Butollo, F. (Interview): (2019): "The Future of Work", Interview for the documentary "Working Progress", Plastico Film.

Butollo, F. (Interview): (2019): "Automatisierung und Arbeit", interview for the radio magazine PULS, Bayerischer Rundfunk, January 22, 2019.

Krzywdzinski, M. (Interview): "Wie sieht die Arbeitswelt von morgen aus?" In: Bundeszentrale für politische Bildung, Dossier Bildung, November 21, 2018, URL: www.bpb.de/gesellschaft/bildung/zukunft-bildung/280783/video-interview-arbeitswelt-morgen [Accessed: September 21, 2019].

Krzywdzinski, M. (Interview): "Wir müssen allen Beschäftigten fairen Zugang zur Qualifizierung bieten.", Arbeiten 4.0, October 09, 2018, URL: https://www.arbeitenvie https://www.experimentierraeume.de/themen/wissen-qualifizierung/rnull.de/experimentierraeume/dialog.html?L=0 [Accessed: September 21, 2019].

Krzywdzinski, M. (Interview): "Digitalisierung kann altersgerechte Arbeitsplätze schaffen". In: Bundeszentrale für politische Bildung, Dossier Bildung, 26.09.2018, URL: https://www.bpb.de/politik/innenpolitik/demografischer-wandel/274543/martin-krzywdzinski-digitalisierung-kann-altersgerechte-arbeitsplaetze-schaffen [Accessed: September 21, 2019].

RESEARCH GROUP 2: PRODUCTION POSSIBILITIES OF
THE MAKER CULTURE

Christensen, M./Conradi, F. (Lecture): "DIY/DIT Development: New Spaces, Modes and Materials", 7th International Conference on Sustainable Development (ICSD 2019), Rome, Italy, September 04–05, 2019.

Christensen, M. (Moderation, Panel discussion): "New Philosophies: Paradigm Shifts in a Machine-Intelligent World", Conference "Future Affairs. Digital Revolution – Resetting Global Power Politics?" Auswärtiges Amt, Berlin, June 29, 2019.

Christensen, M./Conradi, F. (Organisation): Expert Roundtable "DIY/DIT Development: New Spaces, Modes and Materials", Berlin Open Lab, UdK, Berlin, June 24, 2019.

Christensen, M./Conradi, F. (Lecture): "The Dis/Order of Things", Symposium Digital Things. Neue Dinglichkeit seit dem Internet, Institut für Kunst & Kunsttheorie, University Cologne, June 21–22, 2019.

Christensen, M./Conradi, F. (Lecture): "Open So(u)rcery: DIY Counterapparatus", Politics of the Machine Conference (POM Beirut), Lebanese International University, Beirut, Lebanon, June 11–14, 2019.

Christensen, M./Conradi, F./Dietze, M. (Exhibition): "Open Studio", Opening of the Berlin Open Labs, UdK, Berlin, May 28, 2019.

Christensen, M./Conradi, F. (Workshop): "Academic Makerspaces", Global Innovation Gathering (GIG), Berlin May 10, 2019.

Christensen, M. (Panel discussion): "Speculative Actuality – Critical Making as a Tactic to Hack the Now", Panel discussion "Designing Tomorrows – Science Fiction as a Method". re:publica, Berlin, May 06, 2019.

Christensen, M./Conradi, F. (Lecture): "DIY Development: Inclusive Bottom-Up Social Digital Innovation", Weizenbaum Special Interest Group Africa, Berlin Open Lab Meeting, Berlin 29, April 2019.

Christensen, M./Conradi, F. (Lecture): "Open Labs", Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) Togo, Lomé, February 13, 2019.

Christensen, M./Conradi, F. (Workshop): "Making Makerspaces", Office of Research, Innovation and Development, University of Ghana, Accra, February 11, 2019.

Christensen, M./Conradi, F. (Lecture): "Open Labs", Office of Research, Innovation and Development, University of Ghana, Accra, February 05 2019.

Dietze, M./Kochsiek, M. (Workshop): "Hacking Body-Politics: Menstrual Cycle & Ovulation", Berlin Open Lab, UdK, Berlin, July 10, 2019.

Dietze, M. (Lecture): "Making Space: Exploring New Modes of Feminist Hacking and Making", IV International Summer School on Grounded Theory and Qualitative Methods, University of Pisa, Pisa, Italy, June 03.–07, 2019.

Joost, G. (Panel discussion): "Designing better platforms. Was nachhaltige, humanistische digitale Plattformen auszeichnet", re:publica, Berlin, May 08, 2019.

Joost, G. (Lecture): "Design-driven AI", Design Symposium, Tong-ji University, Shanghai, China, March 14, 2019.

Joost. G. (Lecture): "Digitale Souveränität", German Embassy Beijing, China, March 05, 2019.

Joost, G. (Lecture): "Digitale Gesellschaft", Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) Togo, Lomé, February 13, 2019.

Joost, G. (Lecture): "Towards an Inclusive Digital Society", Research ICT, Cape Town, South Africa, January 23, 2019.

Joost, G./Christensen, M. (Expert roundtable): "Open Source Shared Mobility" at Open Source Lab Sustainable Mobility / Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI), Berlin, November 27, 2018.

RESEARCH GROUP 3:
WORK AND COOPERATION IN THE SHARING ECONOMY

Brause, S. R. (Lecture at the Ph.D. colloquium): "Trade Union Strategies Towards Gig Economy Workers", Conference of the International Network on Digital Labour (INDL), Paris, France, June 13.-14, 2019.

Brause, S. R. (Active workshop participation): HIIG Workshop "Research meets Practice: Unevenness in Digital Economies", Humboldt Institute für Internet and Society, Berlin, May 09, 2019.

Brause, S. R. (Active participation in Ph.D. workshop): International Labour Process Conference (ILPC). Vienna, Austria, April 23-26, 2019

Feldmann, A. (Lecture/keynote): "The Internet: A Complex System at its Limits", IEEE International Symposium on Local and Metropolitan Area Networks, Paris, France , July 01, 2019.

Feldmann, A. (Panel discussion): "Key Technologies", Digitising Europe Summit, Berlin, February 19, 2019.

Feldmann, A. (Lecture/keynote): Keynote Speech, Passive and Active Measurement: 20th International Conference, PAM 2019, Puerto Varas, Chile, March 27-29, 2019.

Feldmann, A. (Lecture/keynote): "The Internet: A Complex System at its Limits", 11th International Conference on COMmunication Systems & NETworkS (COMSNETS) 2019, Bangalore, India, January 9, 2019.

Feldmann, A. (Lecture): "The Internet: Opportunities and Challenges", Distinguished Lecture Series, RWTH, Aachen, November 16, 2018.

Feldmann, A. (Lecture): MPG: Tag mit Wissenschaft, Schloss Ringberg, Ringsee, October 19, 2018.

Feldmann, A. (Panel discussion): "Big Data – Mehr als ein Hype", Reviewer meeting of the interdisciplinary project Assessing Big Data (ABIDA), BMBF, Berlin, October 18, 2018.

Feldmann, A. (Lecture/keynote): "25 Jahre TKN \ Ein Blick zurück, ein Blick nach vorn", Berlin, October 12, 2018.

Kolleck, A. (Workshop participation): Fifth iShare Symposium, Mannheim, May 25, 2019.

Stocker, V. (2019): "Network Neutrality Regulation: Facing the Challenges of Today's Internet", keynote lecture at the panel, 30th ITS European Conference in Helsinki, Finnland, June 16–19, 2019.

Stocker, V. (Organisation and moderation of a panel discussion): "Network Neutrality Regulation: Facing the Challenges of Today's Internet", 30th ITS European Conference in Helsinki, Finnland, June 16–19, 2019.

Stocker, V. (Poster presentation): "Network Neutrality Regulation: An Economist's Perspective", Max-Planck-Institut für Informatik in Saarbrücken, May 29, 2019.

RESEARCH GROUP 4: DATA AS A
MEANS OF PAYMENT

Efroni, Z./Metzger, J./Mischau, L./Schirmbeck, M. (Organisation and active participation): "Expert Workshop: Privacy Icons", Weizenbaum Institute, Berlin, February 27, 2019.

Efroni, Z. (active participation): 1. Bonner Streitgespräche zum Daten- und Datenschutzrecht, Universitätsforum, Bonn, February 21, 2019.

Efroni, Z./Metzger, J./Mischau, L./Schirmbeck, M. (Organisation and active participation): "Das 'Privacy Paradox': Datenschutz und/oder Datenwirtschaft?!", Parliamentary evening, Berlin, February 20, 2019.

Efroni, Z./Mischau, L. (Expert discussion): "VKU-Datendialog # 2", Verband kommunaler Unternehmen (VKU), Berlin, October 15, 2018.

Metzger, J./Mischau, L./Schirmbeck, M. (Weizenbaum Research Retreat): Weizenbaum Research Retreat, Bad Belzig, August 05–07, 2019.

Metzger, A. (Lecture): "Interpretation of IP Treaties in Accordance with Art. 31-33 VCLT by EPO", Workshop FG 16 IP Ordering beyond the State, Berlin, June 24–25, 2019.

Metzger, A. (Lecture): "A Market Model for Personal and Big Data: Preconditions and Challenges", Münster Colloquia on EU Law and the Digital Economy, "Data as Counter-Performance – Contract Law 2.0?", Münster, May 16–17, 2019.

Metzger, A. (Lecture): "Article 17 DSM Directive: A (tentative) cost-benefit analysis"; ECS Conference, Oslo, May 23–25, 2019

Metzger, A. (Lecture): "Vertragsstrafen im Immaterialgüter- und Wettbewerbsrecht", GRUR Nord, Hamburg, May 27, 2019

Metzger, A. (Organisation; lecture): "Paradoxien der individuellen und kollektiven Nutzung von Daten", Parlamentary Evening "Das 'Privacy Paradox': Datenschutz und/oder Datenwirtschaft?!", Berlin, February 20, 2019.

Metzger, A. (Lecture): "Cumulation of Protection and Regulatory Regimes for Innovative Plants", EI- PIN Conference, Alicante, Spain, January 24–25, 2019.

Metzger, A. (Lecture): "Voraussetzungen und Grenzen eines Marktmodells für 'Big Data'", Konferent Stiftung Datenschutz, Berlin, November 22, 2018.

Metzger, A. (Lecture): "Validity and effects of Rule 28 (2) EPC IR", GRUR Fachausschuss Schutz von Pflanzen, Munich, October 26, 2018.

Metzger, A. (Lecture): "Digitale Mobilität: Vertragsverhältnisse", Annual Conference of the Deutsche Vereinigung für gewerblichen Rechtsschutz und Urheberrecht (GRUR), Berlin, September 26–29, 2018.

Metzger, J./Mischau, L./Schirmbeck, M. (Weizenbaum Research Retreat): Weizenbaum Research Retreat, Stolzenhagen-Lunow, September 24– 26, 2018.

Mischau, L. (Lecture): "Daten als ‚Gegenleistung' und Datenrechte in der neuen Digitale-Inhalte-Richtlinie", GRUR Fachausschuss Recht der Daten, Berlin, June 14, 2019.

Mischau, L. (Lecture): "Zugangsrechte zu Daten", Josef-Kohler-Werkstatt, Humboldt University Berlin, May 29, 2019.

Mischau, L. (Lecture): "Daten als 'Gegenleistung' und Datenrechte in der neuen Digitale-Inhalte-Richtlinie", BITKOM, Forum Recht, Berlin, May 16, 2019.

Mischau, L./Nissen, M (Panel discussion): "Brauchen wir ein Daten-für-alle-Gesetz?", SPD Forum Netzpolitik, Berlin, May 15, 2019.

Schirmbeck, M. (Lecture): "Privacy Icons: A Risk-Based Approach", Vorstellung des P3C (Planetary Privacy Protection Consortium) Konsortiums im Anschluss an die Weißbuch Publikation organisiert von Privacy Tech, Paris, France, June 05, 2019.

OTHER

Efroni, Z. (Interview) (2019): "Das Ende des Internets, wie wir es kennen, droht: Was sich hinter Artikel 13 verbirgt", Interview with Business Insider DE, published March 26, 2019.

*THE CONTRIBUTIONS OF PROF. DR. AXEL METZGER, LL.M. (HARVARD) RELATE TO RESEARCH GROUPS 4 AND 16 AND ARE LISTED UNDER RESEARCH GROUP 4.

RESEARCH GROUP 5:
DATA-DRIVEN BUSINESS MODEL INNOVATION

Hilbig, R. (Lecture): "Learning
Analytics – Grundlage für datenbasierte
Geschäftsmodelle in der Bildung",
FrauenComputerZentrumBerlin e.V.
(FCZB), Berlin, September 03, 2019.

Hilbig, R. (Workshop): "DIY/DIT
Development: Bottom-Up Social-Digital
Innovation", Berlin Open Lab, Berlin,
June 24, 2019.

Hilbig, R. (Jury member): "Creative
Prototyping", designtransfer UdK,
Berlin, May 15, 2019.

Hilbig, R. (Lecture): "Data-Driven
Business Model Innovation", Weizenbaum
Institute – Delegation Cambodia,
Berlin, May 09, 2019.

Hilbig, R. (Lecture): "How to Lead and
Manage the Key Resource Human Capital",
Touching Innovation, Berlin, February
14, 2019.

Hilbig, R. (Panel discussion):
"Bio, Öko und Datenschutz: Bio hat sich
als Lebensstil etabliert. Nur eine
Imagefrage – oder wie können wir davon
lernen, um den Datenschutz
voranzubringen?", Bits & Bäume
Konferenz, Berlin, November 18, 2018.

Hilbig, R. (Lecture): "Digital Data-
Driven Business Models – Creative
Start-ups in Berlin", Science Week
Berlin – Impact Café: Nurturing SSHA-
Start-ups, Berlin, November 02, 2018.

Ullrich, S./Messerschmidt, R./ Hilbig,
R. (Lecture): "Entzauberung von IT-
Systemen", Bits & Bäume book
presentation, Berlin, July 03, 2019.

Ullrich, S./Messerschmidt, R./Hilbig,
R./Butollo, F./Serbanescu, D.
(Workshop/Game): "ADDM –
Automatisierungsdemystifizierungsdiskur
smaschine", Bits & Bäume Konferenz,
Berlin, November 18–19, 2018.

Schildhauer, S. (Lecture): "Lernen 4.0:
Wie lernen wir?", 69th Science
Slam, Berlin, March 20, 2019.

Schildhauer, T. (Lecture): "Data
Analytics: Basis für datenbasierte
Geschäftsmodelle in der Weiterbildung?
Zwischen individueller Lernund
organisationaler Lehroptimierung",
Parlamentarischer Abend, Berlin,
February 20, 2019.

OTHER

Schildhauer, T. (Interview) (2018):
"Datenbasierte
Geschäftsmodellinnovationen", In:
Trend Report
– Redaktion und Zeitung für moderne
Wirtschaft, November 5, 2018. URL:
https://trendreport.de/datenbasiert
e-geschaeftsmodellinnovationen/
[Accessed: September 22, 2019].

RESEARCH GROUP 6:
RESPONSIBILITY AND THE INTERNET OF THINGS

Gräfe, H.-C. (Lecture): "Automatisierung und Technologie – eine Chance für die Demokratie", June conference ELSA, Passau, June 23, 2019.

Gräfe, H.-C. (Lecture & workshop): "Medienrechtliche Grundlagen für Campusmedien III Lehr-Lernredaktion", Institut für Medienwissenschaften, Ruhr-Universität Bochum, Bochum, April 29, 2019.

Gräfe, H.-C. (Lecture & workshop): "Social Media Recht Schulung, 2. RUB Social Media Schulung für (dezentrale) Social-Media-Redaktionen", Ruhr University Bochum, Bochum, March 11, 2019.

Gräfe, H.-C. (Panel discussion): "Veränderung des Alltags durch Digitalisierung", 10. Frankfurter Symposium für Digitale Infrastruktur, Veranstalter Interxion, Frankfurt, November 14, 2018.

Gräfe, H.-C. (Lecture & workshop): "Medienrechtliche Grundlagen für Campusmedien III Lehr-Lernredaktion", Institut für Medienwissenschaften, Ruhr-University Bochum, Bochum, November 12, 2018.

Hamm, A. (Lecture): "Smart Bicycling: Permanent bicycle counters in Berlin", Data Ethics Workshop der Gesellschaft für Informatik: Data Governance for Digital Moblity, Weizenbaum-Institut, Berlin, June 18, 2019.

Hamm, A./Lin, Z. (Lecture): "Why Drones for Ordinary People? Digital Representations, Topic Clusters, and Techno-Nationalization of Drones on Zhihu", International Communication Assoziation (ICA) Preconference Digital Asia, Washington, D.C., USA, May 24, 2019.

Hamm, A./Gräfe, H.-C. (Lecture): "Soziale Bots, Trolle und Meinungsfreiheit: Illegitime Kommunikation im Netz", Media Convention Berlin/re:publica19, Berlin, May 7, 2019.

Hamm, A. (Lecture): "Wie können IoT-basierte Technologien zu nach haltigen Städten und Gemeinden beitragen?", ADIMAP, 10th International Symposium, "The emergence of the Smart City: Stakes, Challenges, Practices and Impact for Public Governance", LIST/LISER, Belval, Luxemburg, March 7, 2019.

Hamm, A. (Lecture): "Public IoT in Smart Cities". Tanaka Lab, Grad School of Interdiscip. Information Studies, University of Tokyo, Tokyo, Japan, November 29, 2018.

Hamm, A. (Discussant): Smart City, Smart Country Meeting, eco Verband, Berlin, November 11, 2018.

Kröger, J.L. (Lecture): "Privacy Implications of Audio Mining: The Growing Threat of Unexpected Inferences", Summer School on Privacy and Identity Management, Brugg, Switzerland, August 19–23, 2019.

Kröger, J.L. (Lecture): "Is My Phone Listening in? On the Feasibility and Detectability of Mobile Eavesdropping", Data and Applications Security and Privacy Conference XXXIII (DBSec 2019), Charleston, USA, July 14–17, 2019.

Kröger, J.L. (Lecture): "Privacy Implications of Accelerometer Data: A Review of Possible Inferences", 3rd International Conference on Cryptography, Security and Privacy (ICCSP), University of Malaya, Kuala Lumpur, Malaysia, January 19–21, 2019.

Schieferdecker, I. (Lecture): "Nachhaltige Stadtentwicklung im Digitalen", Der Demografiekongress – Leitkongress für Wirtschaft und Zivilgesellschaft im demografischen Wandel, Berlin, September 6, 2019.

Schieferdecker, I. (Lecture): "Connecting Energy Data and Services", Future Grid Systems CKI R&D Workshop of the TU Berlin/UniversityOxford, Berlin, July 2, 2019.

Schieferdecker, I. (Lecture): "Daten für die Öffentlichkeit – Daten als digitale Gemeingüter", TU Berlin – lecture series Internet und Privatheit, Berlin, June 24, 2019.

Schieferdecker, I. (Panel discussion): "Innovative Visionen für Deutschlands Arbeitskräfte", Konferenz der BSA – Business Software Alliance, Berlin, March 12, 2019.

Schieferdecker, I. (Lecture): "Urbane Daten für Zusammenarbeit im Öffentlichen Raum", Parlamentary Evening, Berlin, February 20, 2019.

Schieferdecker, I. (Lecture): "Urbaner Datenraum – Organisatorischer Rahmen und wirtschaftliche Nutzung aus kommunaler Sicht", Sitzung des VKU-Ausschuss Digitalisierung und DigiNetzWerk im Rahmen der Smart Country Convention 2018, Berlin, November 21, 2018.

Schieferdecker, I. (Panel discussion): "Data-Sovereignty – Privacy and Security in Consumer IT and Public IT",Alumni-Konferenz Online Trust, Boston, USA, September 24–25, 2018.

Schieferdecker, I. (Lecture): "Urbane Datenräume und die Rolle der Stadt", 12th Bundeskongress Nationale Stadtentwicklungspolitik, Berlin, September 17, 2018.

Ullrich, S. (Lecture series): "Nachhaltigkeit und Digitalisierung", Ringvorlesung der Uni Göttingen, Göttingen, March 20, 2019.

Ullrich, S. (Lecture): "Künstliche Intelligenz und Ethik", lecture at the Canisius-Kolleg, Berlin, March 02, 2019.

Ullrich, S. (Lecture): "Ausrechnen statt Entscheiden", Leacture at the #ÖFIT2018 – Symposium: "(Un)ergründlich. Künstliche Intelligenz als Ordnungsstifterin", Berlin, November 19, 2018, URL: https://www.youtube.com/watch?v=gQdbUkwJ0H0 [Accessed : September 21, 2019].

Ullrich, S. (Lecture): "Automatisierungs-Demystifizierungs-Diskurs-Maschine", Vortrag auf der Bits und Bäume Konferenz, Berlin, November 17, 2018, URL: https://media.ccc.de/v/bub2018-197-prasentation_automatisierungs-demystifizierungs-diskursmaschine [Accessed: September 21, 2019].

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Gräfe, H. (Interview): "Influencer im
Anzeigen-Chaos", Stud.Jur Magazin, 33
(1), p. 6f.

Gräfe, H. (Interview): "Drei Fragen an
Hans-Christian   Gräfe",
Absatzwirtschaft, 2018 (10), p. 10.

RESEARCH GROUP 7:
EDUCATION AND ADVANCED TRAINING IN THE DIGITAL SOCIETY

Brandenburger, B./Vladova, G. (Poster presentation): "The Potential of Making for Enhancement of Digital Competencies in Higher Education", FabLearn Europe Conference 2019, University Oulu, Oulu, Finland, May 28–29, 2019.

Gronau, N. (Lecture as part of the ASSD lecture series): "How Much Autonomy Is Necessary?", Berlin, May 29, 2019.

Gronau, N. (Lecture): "Perspektiven der betrieblichen Weiterbildung im Zeitalter der Digitalen Transformation", Think Tank Innerbetriebliche Weiterbildung der BDA/PWC, Frankfurt a. M., March 14, 2019.

Gronau, N. (Panel moderation): "Enabling IoT", Industry 4.0 conference, Hasso-Plattner-Institute, Potsdam, January 24, 2019.

Pinkwart, N. (Organisator and PC Chair in preparation of the conference): DeLFI 2019: Die 17. e-Learning Fachtagung Informatik (DeLFI 2019), Berlin, September 16–19, 2019.

Pinkwart, N. (Lecture): "Teaching About, with and in Spite of AI: Perspectives of AI in Teacher Education", International Workshop for AI + Teacher Education, Capital Normal University, Beijing, China, June 14, 2019.

Pinkwart, N./Gronau, N./Vladova, G. (Organisers – PC Chair and programme committee): Weizenbaum Conference 2019 "Challenges of Digital Inequality: Digital Education, Digital Work, Digital Life", Berlin, May 16–17, 2019.

Pinkwart, N./Gronau, N./Vladova, G. (Lectures): German-African Perspectives Workshop des WBI, Berlin, April 29, 2019.

Pinkwart, N. (Lecture): "Learning Analytics – Research Directions and Practical Matters", University of Wuhan, China, March 25, 2019.

Pinkwart, N. (Lecture): Symposium "Chinese-German Perspecti

ves on AI-Supported Educational Technologies", Central China Normal University, Wuhan, China, March 24 –30, 2019.

Pinkwart, N. (Lecture): "Learning Analytics in der Hochschulbildung: Chancen und Herausforderungen", Meeting "Digitalisierung im Medizinstudium – vom Konzept zur Praxis", Ulm, December 13, 2018.

Pinkwart, N. (Panelist): "11th Tagesspiegel Data Debate" zum Thema: "(Weiter)Bildung in der digitalen Gesellschaft – Wie lernen wir in Zukunft?", Berlin, December 11, 2018.

Pinkwart, N. (Lecture): "Multi-Scope and Multi-Stakeholder Perspectives on Learning Analytics", University of Wuhan, Wuhan, China, December 05, 2018.

Pinkwart, N. (Lecture): "Data Science und KI in der Bildungsforschung", Interdisziplinären Zentrum für Bildungsforschung, Berlin, November 12, 2018.

Pinkwart, N. (Panelist): Berlin Science Week "Next Frontier Debate" on the subject "Who Controls Whom? Digitization and Regulation in an Algorithmic World", Berlin, November 1, 2018.

Pinkwart, N. (Lecture): "Learning Analytics als Mittel der Selbstreflexion", OpenHPI-Forum, Potsdam, September 19, 2018.

Rüdian, S./Vladova, G./Gundlach, J./Kazimzade, G./Pinkwart, N. (Lecture): "Predicting Culture and Personality in Online Courses", SLLL@AIED2019, Chicago, USA, June 25–30, 2019.

Rüdian, S./Pinkwart, N. (Poster presentation): "Towards an Automatic Q&A Generation for Online Courses – a Pipeline Based Approach", AIED2019, Chicago, USA, June 25–30, 2019.

Rüdian, S./Liu, Z./Pinkwart, N. (Lecture): "Comparison and Prospect of Two Heaven Approaches: SVM and ANN for Identifying Stu

dents' Learning Performance", in 7th International Conference of Educational Innovation (EITT2018), Grand Millennium Auckland, Auckland, New Zealand, December 11–14, 2018.

Teichmann, M./Matthiessen, J. (Poster presentation): "You Are Too Old (Not) to Learn", Weizenbaum Conference 2019, Berlin, May 16– 17, 2019.

Teichmann, M. (Lecture): "Subject-Oriented Learning – a New Perspective for Vocational Training and Learning Factories", 9th Conference on Learning Factories 2019, Technical University Braunschweig, Braunschweig, March 26– –29, 2019.

Vladova, G./Haase, J./Rüdian, S./Pinkwart, N. (Lecture): "Educational Chatbot with Learning Avatar for Personalization", Emergent Research Forum (ERF): AMCIS – Conference of the Association for Information Systems (AIS), Cancun, Mexico, August 14, 2019.

Vladova, G./Haase, J./Dragicevic, N./Maasdorp, C.: (Organisation; Vladova: lecture, panel discussion, moderation): Workshop "Overcoming the Challenges of Interdisciplinary Research within Is and Digitalization (Interactive Work- shop)", AMCIS – Conference of the Association for Information Systems (AIS), Cancun, Mexico, August 14, 2019.

Vladova, G. (Expert discussion): Expertendiskussion zur Zukunft der Bildung in Deutschland, Fields Institute, Berlin, June 07, 2019.

Vladova, G./Wotschack, P.: (Poster presentation): "Unequal Training Participation and Training Experience at the Digital Work Place – an Interdisciplinary Study", Weizenbaum Conference 2019, Berlin, May 16–17, 2019.

Vladova, G. (Presentation of research , discussion): Gespräch mit Digitalisierungsexperten und Politikern aus Kambodscha: "Die Zukunft der Arbeit – Auswirkungen der Digitalisierung und der Indus-

trie 4.0 auf die Arbeitswelt und Gesellschaft von morgen", Weizenbaum Institute, Berlin, May 09, 2019.

Vladova, G. (Presentation of research, discussion): Vernetzungsworkshop mit der UZH/ DSI, Weizenbaum Institute, Berlin, April 04, 2019.

Vladova, G. (Keynote lecture): "Bildung für die digitalen Welten – Perspektiven, Brennpunkte, Brücken", Fachtag Digitalisierung der Transferagentur Niedersachsen, Wolfsburg, March 26, 2019.

Vladova, G. (Lecture, participation in panel discussion): "KI verstehen bedeutet unsere Veränderungen als Mensch und Gesellschaft verstehen", Projekt Digital Leadership Education, Canisius-Kolleg, Berlin, March 01, 2019.

Vladova, G.: (Interviews, comments, videos): Massive Open Online Course (MOOC) "Industry 4.0: How to Revolutionize your Business", edX by the Massachusetts Institute of Technology, 1. On KM and Digitalisation (15 Minutes): https://www.youtube.com/watch?v=aAjA99xDWxw.

2. On KM and Innovation Management (8 Minutes): https://www.youtube.com/watch?v=t7komVeEcQc.

RESEARCH GROUP 8:
INEQUALITY AND DIGITAL SOVEREIGNTY

Becker, von, P. (Lecture): "China und die digitale Weltordnung. Blaupause für den digitalen Kontrollstaat?", Bits & Bäume Konferenz, TU Berlin, Berlin, November 18, 2018.

Calderón Lüning, E. (Lecture): "Lokale Netzwerke und die Diskussion um digitale Souveränität in eine (digitale) Stadt", Lecture at lecture series
"digitales Leizpig", Bündnis 90/ die Grünen KV Leipzig, Leipzig, July 4, 2019.

Calderón Lüning, E. (Poster presentation): "MAZI - A DIY networking toolkit for location-based collective awareness", 9th International Conference on C&T – Transforming Communities, Vienna, Austria, June 03–07, 2019.

Calderón Lüning, E. (Lecture): "Gemeinschaftliche Infrastrukturen (in der elektonischen Stadt)", City/Data/Explosion, Hamburg, December 11, 2018.

Calderón Lüning, E. (Lecture): "Digitale Technologien und Stadtentwicklung: Potenziale und Risiken" in Veranstaltungsreihe "Wie nachhaltig ist die Smart City?", Hochschule für angewandte Technik, Berlin, November 19, 2018.

Calderón Lüning, E. (Workshop): "Innovationsdrang / Innovationszwang – Wirkungsmessung und digitale Vernetzung in der Nachbarschaftsarbeit / Gemeinwesenarbeit", Kotti e.V., Berlin, November 9, 2018.

Duque, M./Popplow, L./Pierri P.: "Caring for or with Public Things – Mapping Possible Roles of Designing as Democratic Practice", NORDES Conference, Espoo, Finland, June 02, 2019.

Herlo, B: (Lecture): "Design for Civil Society: The Model Project Citizens Connect Neighborhoods", IASDR-Konferenz Design Revolutions, University of Manchester, UK, September 2-5, 2019.

Herlo, B. (invited panel chair): Panel "People", IASDR-Conference Design Revolutions, University of Manchester, UK, September 2, 2019.

Herlo, B. (Lecture): "Co-Designing Public and Political Deliberation", International Conference Design & Tech, Technion University, Haifa, Israel, June 18-19 2019.

Herlo, B. (Workshop management): Workshop "Participatory Design & Urban Digital Probes", IRS Spring Academy of the Leipnitz Institute for Research on Society and Space, Berlin, May 5, 2019.

Herlo, B. (Panel chair): Panel "Participatory Design and Real-World Laboratories", Symposium
"Creating Spaces of Intercultural Participation", TU Dortmund, Dortmund, March 26, 2019.

Herlo, B. (invited panel chair): Panel "System and Society", DGTF-Konferenz "Matters of Communication", Hochschule für Gestaltung Karlsruhe, Karlsruhe, November 17, 2018.

Herlo, B. (Lecture): "Design and Civil Society", DGTF-Conference
"Matters of Communication", Hochschule für Gestaltung Karlsruhe, November 16–17, 2018.

Herlo, B./Schubert, J./Bergmann, M. (Lecture): "Social Living Labs: Co-Designing Open Cities", Open Cities Forum "Exploring Challenges and Opportunities of Openness and Its Implications for Theories, Perspectives and Instruments of the Open City", Stadtwerkstatt Berlin, Berlin, November 7, 2018.

Herlo, B. (Organiser, workshop management): "Bauhaus Values Today", internationales Forschungsprojekt "BauNow", UdK, Berlin, October 2-9, 2018.

Joost, G. (Lecture): "Digital Society: The Role of Design in Transformation", International Conference Design & Tech, Technion University, Haifa, Israel, June 18-19, 2019.

Joost, G. (Expert panel)
"Towards the Third Wave of Artificial Intelligence", Gespräch mit dem finnischen Wirtschaftsminister Mika Lintilä, Helsinki, Finnland, June 12, 2019

Joost, G. (Panel discussion): "Designing better platforms. Was nachhaltige, humanistische digitale Plattformen auszeichnet.", Media Convention Berlin, Berlin, May 08, 2019.

Joost, G. (Discussion): "Wir und Ich im digitalen Wandel – Chancen und Herausforderungen in Deutschland und China", Discussion event in the German Embassy, Beijing, China, March 5, 2019.

Joost, G. (Expert roundtable): "Open Source Shared Mobility", Open Source Lab Sustainable Mobility / Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI), Berlin, November 27, 2018.

Joost, G. (Lecture): "Digitalisierung und Kirche", Evangelische Kirche in Deutschland, Berlin, November 12, 2018.

Keysar, H. (Colloquium talk): "Reclaiming the Fly Zone: Collaborative DIY Tools for Spatial Struggles in Israel-Palestine", Hochschule für Bildende Künste Braunschweig, June 11, 2019.

Unteidig, A. (Lecture): "(Make) Transformation Design (Tangible)", By Design or by Disaster Conference, Bozen, Italy, April 14, 2019.

Unteidig, A./Lüning Calderón, E. (Lecture): "Lokale Netzwerke und die Diskussion um eine smarte Stadt von Unten" ,Bits und Bäume 2018 Conference, Berlin, November 17–-18, 2018.

OTHER

Calderón Lüning, E.: Member of the Programme Advisory Committee, re:publica 2019, January–May 2019.

RESEARCH GROUP 9:
DIGITAL TECHNOLOGIES AND WELL-BEING

Baum, K. (Lecture): "Do They Really Care About Targeted Political Ads? Investigation of User Privacy Concerns and Preferences", Twenty-Seventh European Conference on Information Systems (ECIS 2019), Stockholm, Sweden, June 14, 2019.

Baum, K. (Session chair): Track "Social and Ethical Implications of Information and Communication Technology Use", European Conference on Information Systems (ECIS 2019), Stockholm, Sweden, June 14, 2019.

Baumann, A. (Session chair): Track "Social Media – Digital Work Digital Life – Interaction Effects in Social Media Contexts", European Conference on Information Systems (ECIS 2019), Stockholm, Sweden, June 13, 2019.

Baumann, A. (Session chair): Track "Information Privacy and Information Security", Internationale Tagung Wirtschaftsinformatik (WI 2019), Siegen, February 25–27, 2019.

große Deters, F. (Session chair): Track "Social Media – Digital Work Digital Life – Special Interest Groups", European Conference on Information Systems (ECIS 2019), Stockholm, Sweden, June 12, 2019.

große Deters, F./Mehl, M. R./Eid, M. (Poster presentation): "Social Responses to Facebook Status Updates: The Role of Extraversion and Social Anxiety", Annual Convention of the Society for Personality and Social Psychology (SPSP 2019), Portland, USA, February 9, 2019.

Krasnova, H. (Track chair, panel committee co-chair): "Social Media – Digital Work, Digital Life", European Conference on Information Systems (ECIS 2019), Stockholm, Sweden, May 27, 2019.

Krasnova, H. (Organisation, openingspeech, conference co-chair): Weizenbaum Conference 2019 "Challenges of Digital Inequality: Digital Education, Digital Work, Digital Life", Berlin, May 16–17, 2019.

Krasnova, H. (Track chair): Track "Information Privacy and Information Security", Internationale Tagung Wirtschaftsinformatik (WI 2019), Siegen, February 23–27, 2019.

Krasnova, H. (Lecture): "Social Media: The Dark and The Ugly", Privacy and Sustainable Computing Lab, Wirtschaftsuniversität Vienna, Austria, January 16, 2019.

Krasnova, H. (Panel discussion): "Open Science – Open Societies: Weltweit vernetzt für globale Herausforderungen", TU Berlin, Berlin, November 21, 2018.

Krause, H.-V. (Lecture): "Der Eros im Endgerät: Wandel der Liebe durch Online-Dating", Meeting "Das ‚humanum' im Zeitalter der Digitalisierung", Tutzing, September 14, 2019.

Krause, H.-V. (Lecture): "Social Networking Site Use: Understanding the Effects on Users' Well-Being and Behavior", Doctoral Consortium, European Conference on Information Systems (ECIS 2019), Stockholm, Sweden, June 08, 2019.

OTHER

Krasnova, H. (Expert interview): "Leben mit dem Smartphone", Reportage von Christoph Heymann, tagesschau24, October 27, 2018, URL: https://programm.ard.de/TV/tagesschau24/leben-mit-dem-smartphone/eid_28721963259831 [Accessed: September 22, 2019].

Krasnova, H. (Expert interview): "Wenn das Handy zum Fluch wird", Reportage, RBB, September 15, 2018.

✻THE CONTRIBUTIONS OF PROF. DR. HANNA KRASNOVA RELATE TO RESEARCH GROUPS 9 AND 10 AND ARE LISTED UNDER RESEARCH GROUP 9.

RESEARCH GROUP 10: DIGITAL INTEGRATION

AbuJarour, S. (Lecture): "Your Home Screen is Worth a Thousand Words: Investigating the Prevalence of Smartphone Apps among Refugees in Germany", 25th Americas Conference on Information Systems (AMCIS), Cancun, Mexico, August 17, 2019.

AbuJarour, S. (Panel moderator): "Turning the Dark Side of Social Media Bright! The Case of Immigration in the USA and Germany", 25th Americas Conference on Information Systems (AMCIS), Cancun, Mexico, August 16, 2019.

AbuJarour, S. (Lecture): "Societal Digital Integration: The Case of Refugees", Digital Future Summit, European School of Management and Technology Berlin, Berlin, June 21, 2019.

AbuJarour, S. (Keynote speaker): "Digital Integration and ICT Use by Refugees in Germany", Workshop "Social Contact Metaketa", WZB Berlin, Berlin, October 20, 2018.

AbuJarour, S. (Guest lecturer): Workshop "Integrations: Four Sketches on Migratory Society – A Trans-Disciplinary Workshop", Volksbühne Berlin, School of Disobedience, Berlin, October 08, 2018.

Köster, A. (Panel discussion): "Turning the Dark Side of Social Media Bright! The Case of Immigration in the USA and Germany", 25th Americas Conference on Information Systems (AMCIS), Cancun, Mexico, August 16, 2019.

Köster, A. (Session chair): Track "Social Media – Digital Work Digital Life", European Conference on Information Systems (ECIS 2019), Stockholm, Sweden, June 11– –13, 2019.

Köster, A. (Lecture), Köster, A./ Bergert, C./Gundlach, J. (Poster presentation): "Information as a Life Vest: Understanding the Role of Social Networking Sites for the Social Inclusion of Syrian Refugees", 39th International Conference on Information Systems (ICIS 2018), San Francisco, USA, December 14, 2018.

Köster, A (Panel discussion): "Digitale Ethik: Welche Werte brauchen wir in einer digitalisierten Welt?" Dialogveranstaltung "Gesellschaft 4.0 – Die digitale Zukunft gestalten", Staatskanzlei Brandenburg, Potsdam, October 18, 2018.

Köster, A. (Workshop): "Lebensweltliche und digitale Integration: Informationsplattform", Zuwanderung nach Berlin: Chancen und Herausforderungen für die wachsende Stadt, TU Berlin und HUMBOLDT-VIADRINA Governance Platform, Berlin, October 04, 2018.

Köster, A. (Panel discussion): "Data Sovereignty – Privacy and Security in Consumer IT and Public IT", Research Alumni Conference on Online Trust, TU Berlin, Boston, USA, September 25, 2018.

∗THE CONTRIBUTIONS OF PROF. DR. HANNA KRASNOVA RELATE TO RESEARCH GROUPS 9 AND 10 AND ARE LISTED UNDER RESEARCH GROUP 9.

RESEARCH GROUP 11:
DIGITALISATION AND SCIENTIFIC VALUE CREATION

Hauswirth, M. (Lecture): "Linked Data in der Medizin", Workshop "BIG DATA – Die Zukunft der personalisierten Medizin in der thorakalen Onkologie", Pneumologisch-Onkologische Arbeitsgemeinschaft der Deutschen Krebsgesellschaft, Berlin, July 3, 2019.

Hauswirth, M. (Lecture): "Lokale 5G Netze als Innovationstreiber", Mitgliederversammlung Unternehmensverbände Niedersachsen e. V., Hannover, May 29, 2019.

Hauswirth, M. (Lecture): "Fostering Local Excellence in a Global Context", Vienna Workshop on Digital Humanism, Vienna, Austria, April 4–5, 2019.

Hauswirth, M. (Lecture): "Der datafizierte Staat", Kongress "Digitaler Staat 2019", Behörden Spiegel, Berlin, April 3, 2019.

Hauswirth, M. (Lecture): "Lokale 5G Netze als Innovationstreiber", Geschäftsführer Konferenz des Bundesverbands der Deutschen Industrie e. V., Berlin, March 26, 2019.

Hauswirth, M. (Lecture): "KI entmystifiziert: Strategisches Potential jenseits des Hypes", Congress "Künstliche Intelligenz" der Landesregierung Schleswig-Holstein, Kiel, March 20, 2019.

Hauswirth, M. (Panel discussion): "Deutschland-Index der Digitalisierung 2019", Bundesministerium des Innern, Berlin, March 11, 2019.

Hauswirth, M. (Lecture): "Demonstrator Once Only 2.0", Digital-Gipfel, Bundesministerium für Wirtschaft und Energie, Nuremberg, December 3, 2018.

Hauswirth, M. (Lecture): "Digitale Vernetzung – die Grundlage der Stadt der Zukunft", 8th Brandenburger Sensornetztag, IHP GmbH of the Leibniz Institut für innovative Mikroelektronik, Frankfurt a. d. O., November 28, 2018.

Hauswirth, M. (Panel discussion): "Open Science Policy und gute wissenschaftliche Praxis", Veranstaltung Wikimedia Deutschland e.V. und Weizenbaum-Institut, Berlin, 26.11.2018, URL: https://blog.wikimedia.de/2018/10/24/open-science-policy-und-gute-wissenschaftliche-praxis/ [Accessed: September 22, 2019].

Kirstein, F. (Lecture): "Linked Data in the European Data Portal: A Comprehensive Platform for Applying DCAT-AP", Joint Conference EGOV-CeDEM-EPART 2019 (EGOV 2019), San Benedetto Del Tronto, Italy, September 2–5, 2019.

Schimmler, S. (Lecture): "Open Science & Open Data", Graduiertenkolleg "School of Nanophotonics", Graal-Müritz, May 06–08, 2019.

Schimmler, S. (Programme chair): Weizenbaum Conference 2019 "Challenges of Digital Inequality – Digital Education, Digital Work, Digital Life", Berlin, May 16–17, 2019.

Schimmler, S./Kirstein, F./Urbanek, S./Wünsche, H./Hauswirth, M. (Poster presentation): "Open Science by Design – Rethinking the Research Process", Open Science Conference 2019, Berlin, March 19–20, 2019.

Schimmler, S. (Lecture): Workshop "Offene Wissenschaft in der Praxis", Wikimedia Deutschland e.V. und Weizenbaum Institute, Berlin, November 26, 2018.

Wünsche, H. (Lecture): "Politics of Citizen Science – The continuation of democracy by other means?", 4S 2019, New Orleans, USA, September 4–7 2019.

Wünsche, H./Schimmler, S. (Poster presentation): "Citizen Science and the Dissolution of Inequalities in Scientific Knowledge Production", Weizenbaum Conference 2019, Berlin, May 16–17 2019.

*THE CONTRIBUTIONS OF PROF. DR. MANFRED HAUSWIRTH RELATE TO RESEARCH GROUPS 11 AND 19 AND ARE LISTED UNDER RESEARCH GROUP 11.

RESEARCH GROUP 12: DEMOCRACY AND
DIGITALISATION

Berg, S. (Lecture): "Vox Populi, Vox
Data? Democratic Representation in the
Civic Epistemology of Digital Public
Opinion", Conference "Scraping the
Demos: Political Epistemologies of Big
Data"; WZB, Berlin, July 8-9, 2019.

Berg, S./Vollmer, J. (Lecture):
"Digitalisierung und Demokratie &
digitale Bildung der Bürger", Pentecost
Meeting of theEvangelisches
Studierendenwerk, Schwerte, June 7-
-9, 2019.

Berg, S./König, T./Köster, A.
(Lecture): "#Metwo and the Voices of the
Sans-Part: The Ambivalent Potential of
Hashtag Assemblages", Workshop
"Transformations in the Digital Age #1:
Transformations of the Public Sphere",
Hildesheim, April 25-26, 2019.

Berg, S. (Lecture): "Zur
Kybernetisierung politischer
Repräsentation", Research Colloquium
Prof. Dr. Christian Volk, Otto-Suhr-
Institute, FU Berlin, April 1-2, 2019.

Berg, S./Staemmler, D. (Lecture):
"Die legitimierende Kraft der
Konstituierung. Alternative
Infrastrukturen als Element
demokratischer Digitalisierung". Joint
Annual Conference 2019 of the "Politik
und Kommunikation" working group of the
Deutsche Vereeniging für
Politikwissenschaft, the working group
"Kommunikation und Politik" of the
Deutschen Gesellschaft für Publizistik-
und Kommunikationswissenschaft and the
working group "Politische
Kommunikation" of the Schweizerische
Gesellschaft für Kommunikations- und
Medienwissenschaft, "Die
digitalisierte Demokratie – Politik und
Kommunikation zwischen Daten,
Netzwerken und Algorithmen", Duisburg,
February 8- 9, 2019.

Berg, S./Rakowski, N./Thiel, T.
(Lecture): "Die digitale Konstellation
– eine Positionsbestimmung", Joint
Annual Conference 2019 of the "Politik
und Kommunikation" working group of the
Deutsche Vereinigung für Politikwissen
schaft, the working group
"Kommunikation und Politik" of the
Deutschen Gesellschaft für Publizistik-
und Kommunikationswissenschaft and the
working group "Politische
Kommunikation" of the Schweizerische
Gesellschaft für Kommunikations- und
Medienwissenschaft, "Die digitalisierte
Demokratie – Politik und
Kommunikationzwischen Daten, Netzwerken
und Algorithmen", Duisburg, February,
8-9, 2019.

Berg, S./Rakowski, N. (Lecture):
"Demokratische Öffentlichkeit in der
digitalen Konstellation: rechtliche und
politische Herausforderungen", Autumn
lecture "Demokratie durch Recht", Chair
of Public Law and Legal Philosophy,
University of Mannheim, Neustadt an der
Weinstraße, November 23-25, 2018.

Berg, S. (Lecture): "Cyborgs auf der
Agora? Autonomie zwischen
Demokratietheorie und Science &
Technology Studies"; 27th Congress of
the Deutsche Vereinigung für
Politikwissenschaft, Frankfurt a. M.,
September 25-28, 2018.

Berg, S. (Discussant/panel chair):
"Grenzenlose Demokratie – und ihre
Grenzen", 27th Congress of the Deutsche
Vereinigung für Politikwissenschaft,
Frankfurt a. M., September 25-28, 2018.

Bergemann, B./Hofmann, J. (Lecture):
"Die Fiktion der informierten
Einwilligung im Datenschutz",
Parliamentary evening, Berlin, February
20, 2019.

Buermeyer, U./Cannataci, J./Hofmann,
J./Mihr, C. (Panel discussion):
"Privacy in Germany", A discussion with
UN Special Rapporteur Joe Cannataci,
Alexander von Humboldt Institute for
Internet and Society Berlin, November
09, 2018.

Hofmann J./Kniep R. (Lecture):
"Wen oder was schützt die Netzpolitik?
Eine Retrospektive", Conference
Netpolitik, Org e. V., Volksbühne
Berlin, September 13, 2019.

Hofmann, J. (Lecture): "Wissenskulturen
im Wandel: Was das Internet mit uns
macht", Workshop
"Wissen und Recht", WZB Berlin,
September 5, 2019.

Hofmann, J./Bechtel, C./Welchering, P.
(Panel discussion): "Im Kontrollfieber.
Wer beherrscht die Machträume der
Digitalisierung?",
20. Internationale Schillertage, SWR2
FORUM, Mannheim, June 28, 2019.

Hofmann, J. (Lecture): "Mediatisierte
Demokratie. Experimente im digitalen
Möglichkeitsraum", Telemedicus
Sommerkonferenz, Microsoft Atrium,
Berlin, June 22, 2019.

Hofmann, J. (Lecture): "Mediated
Democracy: A Research Perspective":
"Digitalisation and Democracy: How to
Strengthen Democracy in Brazil and
Europe for the Digital Age?", Euro-
Brasilianisches Demokratieforum Rio de
Janeiro, Brazil, May 24, 2019.

Hofmann, J. (Lecture): "Mediatisierte
Demokratie: Eine
Forschungsperspektive", Event
"Digitalisation and Democracy: How to
Strengthen Democracy in Brazil and
Europe for the Digital Age?", Euro-
Brasilianisches Demokratieforum Rio de
Janeiro, Brazil, May 22, 2019.

Hofmann, J. (Lecture): "Mediatisierte
Demokratie: Eine
Forschungsperspektive", Event
"Digitalisation and Democracy: How to
Strengthen Democracy in Brazil and
Europe for the Digital Age?", Euro-
Brasilianisches Demokratieforum
Brasilia, Brazil, May 20, 2019.

Hofmann, J. (Lecture): "Demokratie:
Eine Forschungsperspektive", Research
colloquium, Marc-Bloch-Zentrum, Berlin,
April 8, 2019.

Hofmann, J. (Lecture): "Die
mediatisierte Demokratie. Experimente
im digitalen Möglichkeitsraum", Forum
Medienzukunft, IPR Frankfurt a. M.,
April 4, 2019.

Hofmann, J. (Lecture): "Mediated Democracy – a Research Program", Symposium on Technological Transformations and Social Change, Max-Plank-Institute Cologne, Cologne, March 22, 2019.

Hofmann, J. (Lecture): "Mediated Democracy in Times of Digitalisation", SPSA Annual Conference 2019, Zürich, Switzerland, March 15, 2019.

Hofmann, J. (Lecture): "Die mediatisierte Demokratie in Zeiten der Digitalisierung", PolKomm Tagung, nrwschool Duisburg, Duisburg, February 8, 2019.

Hofmann, J. (Lecture): "Digitalisierung und Demokratie neu denken", Jahresempfang der Chrisitan-Albrechts University Kiel, Kiel, January 15, 2019.

Hofmann, J. (Lecture): "The Multiplicity of Algorithms. Mapping a Contested Term", Weizenbaum Research Days 2018, Berlin, November 20, 2018.

Hofmann, J. (Lecture): "Institutions of Public Media", Conference "Networking Global Communication in and Beyond the Age of Social Media", McGill University of Montreal, Canada, October 14, 2018.

Hofmann, J. (Lecture): "Mediated Democracy – a Research Program: Digitalisation and Democratic Change: In Search of a Bird's Eye Perspective", AoIR 2018, Association of Internet Researchers Montreal, Montreal, Canada, October 13, 2018.

Hofmann, J./Thiel, T. (Lecture): "Wartungsarbeiten am Fundament: Öffentlichkeit als Voraussetzung und Aufgabe der Demokratie", 27th Congress of the Deutsche Vereinigung für Politikwissenschaft, Frankfurt a. M., September 25, 2018.

Hofmann, J./ Thiel, T. (Lecture): "(Un)demokratische Kampagnen!? – Meinungsbildung in der vernetzten Gesellschaft", Kongress der Deutschen Vereinigung für Politikwissenschaft, Frankfurt a. M., September 25, 2018.

Rakowski, N. (Lecture & workshop): "Dialog in digitalen europäischen Öffentlichkeiten", Europawerkstatt 2019, Junge Europäische Föderalisten Deutschland, Hertie School of Governance, Berlin, July 06, 2019.

Rakowski, N. (Panel): "Zur Zukunft der digitalen Demokratie in Europa", "Wahlparty – Celebrate Europe", Kosmonaut & Kings, Betterplace Lab, Initiative Offene Gesellschaft, Microsoft, Berlin, May 26, 2019.

Rakowski, N. (Lecture & workshop): "Europäische Öffentlichkeit oder nur nationale Filterblasen?", Event "10 Jahre Liquid Democracy", Liquid Democracy e. V., Berlin, May 09, 2019.

Rakowski, N. (Panel): "demokrtie.io reloaded", Mozilla Foundation / Betterplace Lab, Berlin, November 15, 2018.

Rakowski, N. (Panel): "Echokammern durchbrechen", #IKPK18 "Politische Verantwortlichkeit in einer fragilen Welt", Konrad Adenauer Foundtion, Berlin, October 21, 2018.

Thiel, T./Ulbricht, L. (Lecture): "Digitalisierung, Governance und Demokratie", Forschungskolloquium Otto-Suhr Institute, FU Berlin, June 24, 2019.

Thiel, T. (Lecture): "Quiet, Please! Demokratische Optionen zur Rejustierung digitaler Öffentlichkeit", Hochschule für Politik, Colloquium Prof. Dr. Lisa Herzog, Munich, June 3, 2019.

Thiel, T. (Lecture): "Quiet, Please! Demokratische Optionen zur Rejustierung digitaler Öffentlichkeit", Meeting "Technologien der Emotionalisierung", Stuttgart, May 25,.2019.

Thiel, T. (Panel discussion): "Vertrauen oder Transparenz? Einige Thesen zur Entwicklung des Verhältnisses in der digitalen Konstellation", Netzphilosophische Gespräche, Literaturforum at the

Brecht-Haus, Berlin, April 18, 2019.

Thiel, T. (Lecture): "Demokratische Optionen zur Regulierung digitaler Öffentlichkeit", Bundesakademie für Sicherheitspolitik: Kernseminar Sicherheitspolitik, Berlin, April 3, 2019.

Thiel, T (Panel discussion): "Öffentlichkeitswandel und Demokratie", Junge Wissenschaft trifft Frank-Walter Steinmeier, WZB, Berlin, March 14, 2019.

Thiel, T./Rakowski, N. (Lecture): "Demokratische Interventionen in digitalisierte Öffentlichkeiten"; Forschungsworkshop "Trolle, Stürme, Wolken, Blasen, Zwitschern und ein neues Unbehagen. Zur digitalen Transformation von Öffentlichkeit", TU Dresden, January 17, 2019.

Thiel, T (Lecture): "Unruheherd Digitale Öffentlichkeit", Römerberggespräche, Frankfurt a. M., November 3, 2018.

Thiel, T. (Lecture): "Souveränität und Digitalpolitik - Regulierung jenseits des Nationalstaates", Workshop "Internet und Staat", NRW School of Governance, Duisburg, October 9, 2018.

Thiel, T. (Panel discussion): "(Un)demokratische Kampagnen!? – Meinungsbildung in der vernetzten Gesellschaft", panel discussion on the occasion of the first anniversary of the Weizenbaum Institute, Berlin, September 18, 2018.

*THE CONTRIBUTIONS OF PROF. DR. JEANETTE HOFMANN RELATE TO RESEARCH GROUPS 12 AND 18 AND ARE LISTED UNDER RESEARCH GROUP 12.

RESEARCH GROUP 13: DIGITAL
CITIZENSHIP

Dogruel, L./Toepfl, F./Kunst, M. (Lecture): "How Media Content Shapes Feeling Rules: The Effects of Media Messages and User Comments on How We Think We Should Feel", Annual Conference of the International Communication Association 2019, Washington, USA, May 25, 2019.

Eilders, C./Porten-Cheé, P. (Lecture). "Effects of Online User Comments on Public Opinion Perception, Personal Opinion, and Willingness to Speak Out: A Cross-Cultural Comparison between Germany and South Korea", Annual Conference of the International Communication Association 2019, Washington, USA, May 25, 2019.

Eilders, C./Porten-Cheé, P. (Lecture): "Hostile Peers in Social Media? Relating Spiral of Silence Theory and Hostile Media Perception in Opinion-Consonant Environments", Annual conference of the European Communication Research And Education, Lugano, Switzerland, November 1, 2018.

Emmer, M. (Lecture): "Data Collection Strategies for the Study of Online Public Communication: A Literature Review", International Symposium on Social Media 2019, United States International University Africa, USIU-Nairobi, Kenia, September 12, 2019.

Emmer, M. (Keynote lecture), "Understanding the 'Digital Citizen': Citizenship Norms and Political Participation", International Symposium on Social Media 2019, United States International University Africa, USIU-Nairobi, Kenia, September 11, 2019.

Emmer, M. (Lecture): "Digitalisierung gesellschaftlicher Partizipation (neue Beteiligungs- möglichkeiten älterer Menschen)", BAGSO – Bundesarbeitsgemeinschaft der Senioren-Organisationen e.V. Bonn, Berlin, June 25, 2019.

Emmer, M./Xenos, M. (Workshop): "Comparative Research on Digital Citizenship", Weizenbaum Institute, Berlin, May 15, 2019.

Emmer, M. (Lecture): "Dynamiken von Hate-Speech in digitalen Öffentlichkeiten", Conference of the Zentrum für interdisziplinäre Forschung, Bielefeld, May 13-14, 2019.

Emmer, M. (Lecture): "'Das wird man doch wohl noch sagen dürfen!' Verhalten und Erleben von Debatten in den Sozialen Medien", Symposium "Wandel der Sprache", Akademie der Konrad Adenauer Foundation, Berlin, May 6, 2019.

Emmer, M. (Workshop): "2nd NOHATE-Workshop" in cooperation with the Weizenbaum Institute, Berlin, April 05, 2019.

Emmer, M. (Panelist): Dialog zum Themenforum "Medien und Integration", Beauftragte der Bundesregierung für Migration, Flüchtlinge und Integration, Bundeskanzleramt Berlin, April 3, 2019.

Emmer, M. (Panel discussion): "Emotionen im Netz: Entfesselte Kommunikation?", 14th Bundeskongress Politische Bildung, Leipzig, March 08, 2019.

Emmer, M. (Lecture): "Hate Speech und Inzivilität." Expert talk "Wandel der Sprach- und Streitkultur", Konrad-Adenauer-Stiftung, Berlin, February 27, 2019.

Emmer, M. (Panelist): Panel: "'Das wird man doch wohl noch sagen dürfen!' Verhalten und Erleben von Debatten in den Sozialen Medien", Konrad-Adenauer-Stiftung, Berlin, February 27, 2019.

Emmer, M. (Participation): Parliamentary evening of the Weizenbaum Institute, Berlin, February 20, 2019.

Emmer, M. (Lecture): Symposium of the Weizenbaum Institute at BMBF, Berlin, January 28, 2019.

Emmer, M. (Workshop): "Bewältigung von Krisen öffentlicher Kommunikation im Themenfeld Flüchtlinge, Migration, Ausländer (NOHATE), Kick-off-Workshop "Zusammenhalt stärken in Zeiten von Krisen und Umbrüchen", DLR, Köln, December 12-13, 2018.

Emmer, M. (Lecture): "The Digital Future of the Media", 2nd Symposium on the history of global communications research in memory of Niklas Luhmann, Higher School of Economics (HSE) Moscow, Russia, December 7, 2018.

Emmer, M. (Panel discussion): "Demokratie und digitale Gesellschaft – Medienkompetenz für Jugendliche und Erwachsene – ein Mittel gegen Fake News und Desinformation?!" Deutsches Pressemuseum, Berlin, November 28, 2018.

Emmer, M. (Workshop): Partner workshop of the NOHATE project at the Weizenbaum Institute, Berlin, November 23, 2018.

Emmer, M. (Workshop): Conference Strategienetzwerk Online-Partizipation at the Weizenbaum-Institute, Berlin, November 15-16, 2018.

Emmer, M. (Workshop): DFG-Workshop "Digitale Methoden", Bremen, November 6, 2018.

Emmer, M. (Lecture): "Algorithmen in der Analyse von Medieninhalten", Fachtagung Bewegtbildung, Berlin, September 26, 2018.

Jørring, L./Valentim, A./Por- ten-Cheé, P. (Lecture): "Mapping the Field: A Literature Review on Digital Citizenship", The Internet, Politics & Policy Conference, Oxford, UK, September 20, 2018.

Kunst, M./Porten-Cheé, P./Eilders, C. (Lecture): "Do 'Good Citizens' Fight Hate Speech Online? Investigating the Impact of Citizenship Norms on User Responses to Hate Comments", Annual conference of the International Communication Association 2019, Washington, USA, May 28, 2019.

Kunst, M./Toepfl, F./Dogruel, L. (Lecture): "Do Counterpublics Benefit from Accusing the Media of Excluding Their View? Effects of the 'Suppressed Voice Rhetoric' in User Comments on the News Audience", Conference of the International Communication Association 2019,

Washington, USA, May 28, 2019.

Leißner, L./Porten-Cheé, P./ Paasch-Colberg, S. (Lecture): "Practicing Public Sphere on YOU-TUBE: Integrative, Orientative, and Participative Functions of YOUTUBE Videos on the Migration Discourse", Conference of the Political Communication Section of the European Communication Research and Education Association, Posen, Poland, September 12, 2019.

Leißner, L. (Lecture): "Digitale Heimat. Wie viel Staat braucht die digitale Gesellschaft?" Panel discussion, Campfire Festival, Düsseldorf, August 31–September 01, 2019.

Leißner, L. (Lecture): "The Role of Social Media Use in the Context of Green Lifestyle Politics", Environmental Communication Division Graduate Student Preconference auf der Annual Conference of the International Communication Association 2019, Washington, USA, May 24, 2019.

Leißner, L. (Lecture): "Nutzung Sozialer Medien im Kontext von Lifestyle Politics. Eine Untersuchung am Beispiel ökologischer Lebensstile junger Erwachsener", Annual conference of the Deutsche Gesellschaft für Publizistik- und Kommunikationswissenschaft, Westfälische Wilhelms-University Münster, Münster, May 9–11, 2019.

Paasch-Colberg, S./Strippel, C./ Aken, B. van/Emmer, M./Trebbe, J. (Lecture): "Deep-Learning-Algorithmus zur Identifikation von Hate Speech", Annual conference of the Deutsche Gesellschaft für Publizistik- und Kommunikationswissenschaft, Westfälische Wilhelms-University Münster, Münster, May 11, 2019.

Paasch-Colberg, S./Strippel, C./ Aken, B. van/Emmer, M./Trebbe, J. (Lecture): "Moderationsfaktoren: Ein Ansatz zur Analyse von Selektionsentscheidungen im Community Management", Annual conference of the Deutsche Gesellschaft für Publizistik- und Kommunikations

wissenschaft, Westfälische Wilhelms-University Münster, Münster, May 10, 2019.

Porten-Cheé, P./Kunst, M./Emmer, M. (Lecture): "Online Civic Intervention: A New Form of Political Participation under Conditions of Disruptive Online Behavior", Conference of the Political Communication Section of the European Communication Research and Education Association, Poznań, Poland, September 12, 2019.

Porten-Cheé, P. (Lecture): "Digital Citizenship", Internationale Konferenz zum Thema Digitalisierung und Demokratie der Deutschen Botschaft Brasilien, Rio de Janeiro, Brazil, August 09, 2019.

Porten-Cheé, P. (Lecture): "Soziale Medien und Wahlen", Internationale Konferenz zum Thema Digitalisierung und Demokratie der Deutschen Botschaft Brasilien, Rio de Janeiro, Brazil, 08.08.2019.

Porten-Cheé, P./Jørring, L./Valentim, A./Leißner, L./Emmer, M./ Gagrčin, E. (Lecture): "Social Media Shaping Good Citizens: Citizenship Norms and Their Consequences on Political Participation among Heavy Social Media Users". Conference "Social Media and Society", Toronto, Canada, July 20, 2019.

Porten-Cheé, P. (Lecture): "Content Popularity on Social Media Platforms: How Business Models and User Preferences Meet", Digital Future Talks, Phnom Penh, Cambodia, 12.12.2018.

Porten-Cheé, P./Kunst, M. (Lecture): "Conceptualizing Emergent Citizenship Norms as Drivers of User Interventions in Disrupted Online Discussions", Conference "The Deliberative Quality of Communication", Mannheimer Zentrum für Europäische Sozialforschung (MZES), Mannheim, November 9, 2018.

Porten-Cheé, P./Haßler, J./Jost, P. B./Maurer, M./Eilders, C. (Lecture): "A Theoretical Foundation of the Causes and Effects of Online Popularity Cues in the Re

alm of Political Communication Research", Annual conference of the European Communication Research and Education Association, Lugano, Switzerland, November 3, 2018.

Strippel, C./Emmer, M. (Lecture): "Convergent Repertoires of Watching: On the Relation of TV and Streaming Platforms Usage", Annual conference of the International Communication Association 2019, Washington, USA, May 27, 2019.

Zappe, A./Bastian, M./Leißner, L./ Henke, J./Fengler, S. (Lecture): "Perspektivwechsel. Migrationsberichterstattung in Afrika und Deutschland aus MigrantInnensicht", Annual conference of the Deutsche Gesellschaft für Publizistik- und Kommunikationswissenschaft, Westfälische Wilhelms-University Münster, May 9–11, 2019.

POSITION STATEMENTS

Emmer, M. Anhörung Bundestags-Ausschuss "Digitale Agenda", Berlin, April 10 2019.

OTHER

Emmer, M. (Interview): "Themenkarrieren im Internet", Radio Interview, RBB/radioeins, July 25, 2019.

Emmer, M. (Interview): "Rechtspopulismus im Internet", Interview with weekly paper, De Grone Amsterdammer, Netherlands, June 28, 2019.

Emmer, M. (Interview): "Neue digitale Protestbewegungen", Radio Interview, MDR Kultur, June 21, 2019.

Emmer, M. (Interview): "Digitale Öffentlichkeit und Journalismus", epd Medien, June 20, 2019.

Emmer, M. (Interview): "Wandel politischer Diskussionskultur durch soziale Medien", Ostfriesenzeitung, June 19, 2019.

Emmer, M. (Interview): "Jugend-

liche YouTube-Nutzung", Hitradio SKW, June 11, 2019.

Emmer, M. (Talkshow guest): "Medien, Macht und Manipulation", 3sat, scobel, May 23, 2019.

Emmer, M. (Interview): "Rezo-Video und politische Reaktionen", Deutschlandfunk Kultur, May 23, 2019.

Emmer, M. (Studio guest): "Hate Speech im Internet", WDR-TV, Lokalzeit OWL, May 13, 2019.

Emmer, M. (Talk show guest): Re:publica "Digitalisierung und Journalismus", RBB/radioeins, May 06, 2019.

Emmer, M. (Interview): "KI und Chatbots", Handelsjournal, February 19, 2019.

Emmer, M. (Interview): "Fake News im Internet", ZEIT Online, January 24, 2019.

Emmer, M. (Interview): "Fake News", HR1, January 16, 2019.

Emmer, M. (Interview): "Abschied von Robert Habeck aus sozialen Netzwerken", RBB/radioeins January 8, 2019.

Emmer, M. (Interview): "Propagandastrategien von Russia Today", JS-Magazin, November 14, 2018.

Emmer, M. (Interview): "Moderation von Hatespeech in Online-Foren", Online-Portal des MDR, 360G, November 14, 2018.

Emmer, M. (Interview): "Methodische Probleme von Wahlumfragen", BR Fernsehen TV, October 9, 2018.

Emmer, M. (Interview): "Medienberichterstattung über Ostdeutschland", WDR5, October 01, 2018.

RESEARCH GROUP 14:
NEWS, CAMPAIGNS AND THE RATIONALITY OF PUBLIC DISCOURSE

Bennett, L./Klinger, U./Knüpfer, C./Martini, F./Voskresenskii, V./ Zhang, X. (Lecture): "Disinformation in Dissonant Public Spheres: The Case of the Campaign against the Un Global Compact for Migration", Conference "Transformation of the Public Sphere", University Hildesheim, April 25–26, 2019.

Keller, T./Schäfer, M./Mahl, D./ Klinger, U. (Lecture): "Social Bots in Science Communication: Bot Prevalence and Activity about Ten Science-Related Issues on Twitter", ICA Annual Conference 2019, Washington, D.C., USA, May 24–28, 2019.

Keller, T. R./Klinger, U./Martini, F./Samula, P. (Lecture): "Wie Social Bots politische Diskurse auf Twitter transformieren: Ein Methoden- und Ländervergleich", SGKM Annual Conference 2019, St. Gallen, Switzerland, April 05, 2019.

Klinger, U./Koc Michalska, K. (Lecture): "Populism as Communication: A Cross-Sectional and Longitudinal Comparison of Election Campaigning on Facebook", Conference of the Political Communication Section of the European Communication Research and Education Association, Poznań, Poland, September 12–13, 2019.

Klinger, U. (Roundtable): "Stärkung digitaler Öffentlichkeit", Stiftung Neue Verantwortung, Berlin, August 20, 2019.

Klinger, U. (Lecture): "The Role of Social Media in Shaping Public Discourses", Exchange Program for Regional Integration in East Asia and Europe (EPRIE 2019), Tokyo, Japan, June 29, 2019.

Klinger, U. (Lecture): "Meinungsbildung und digitale Kommunikation", Beirat Digitale Agenda, German Bundestag, Berlin, May 16, 2019.

Klinger, U. (Lecture): "Algorithmen, Bots und Trolle: Demokratie im digitalen Stresstest", Ludwig-Maximilians-University Munich,

Kolloquium Prof. Dr. Nida-Rümelin, Munich, April 5, 2019.

Klinger, U. (Panel discussion, lecture): "Demokratische Rationalität im Zeitalter der Digitalisierung", Cafe Luitpold, Munich, April 5, 2019.

Klinger, U. (Roundtable): "Dialogue on Democracy and Disinformation", Oxford Internet Institute & Vodafone Foundation Germany, Berlin, March 21, 2019.

Klinger, U. (Lecture, Workshop Social Media): "Social Bots, strategische Desinformation und politische Kampagnen", Zentrum Informationsarbeit Bundeswehr, Strausberg, March 18, 2019.

Klinger, U. (Lecture, panel discussion): "Unter dem Radar: Digitale Kampagnendynamiken und wie wir sie beobachten können" Fachgespräch "Digitale Wahlbeeinflussung – geht uns alle an!", CDU/ CSU Bundestagsfraktion, Berlin, March 13, 2019.

Klinger, U. (Keynote): "Fake News und Social Media: Warum sich Lügen besser verbreiten als die Wahrheit – und was man dagegen tun kann", Sächsisches Landesgymnasium Sankt Afra, Meißen, February 11, 2019.

Klinger, U. (Lecture): "Strategische Desinformation", Stiftung Neue Verantwortung, Berlin, January 23, 2019.

Klinger, U. (Keynote): "Bots and Politics", Keynote for the exhibition "The Influencing Machine", neue Gesellschaft für bildende Kunst NGbK, Berlin, January 19, 2019.

Klinger, U. (Keynote): "Algorithmisch, dissonant, manipulierbar? Drei Thesen zu digitalen Öffentlichkeiten", CIVIS Medienkonferenz, Berlin, January 10, 2019.

Klinger, U. (Lecture/input for plenary session): "Algorithmen und Wahlen", Berlin-Brandenburgische Akademie der Wissenschaft, Berlin, November 30, 2018.

Klinger, U. (Panel discussion): "Desinformation, Fake News und Hate Speech im öffentlichen Diskurs und den sozialen Medien", Auswärtiges Amt, Berlin, November 14, 2018.

Klinger, U. (Keynote): "Algorithmen, Bots und Trolle: Vom Ende der Öffentlichkeit, wie wir sie kennen," Inaugural lecture at FU Berlin, October 18, 2018.

Klinger, U. (Lecture): "Öffentliche Diskurse in vernetzen Gesellschaften: Globale Perspektiven", Carl Friedrich Goerdeler-Kolleg für Good Governance, Berlin, September 27, 2018.

Maier, D./Stoltenberg, D./Waldherr, A./Pfetsch, B. (Lecture): "TweetX: An R-Shiny Web Application for Exploring Collections of Tweets", Annual conference of the Deutsche Gesellschaft für Publizistik- und Kommunikationswissenschaft, Westfälische Wilhelms-University Münster, Münster, May 9–11, 2019.

Maier, D./Stoltenberg, S./Pfetsch, B./Waldherr, A. (Lecture): "Translocal Networks of Urban Twitter Spheres: A Case Study from Berlin", First International Conference of the Collaborative Research Center "Refiguration of Spaces", Berlin, February 21, 2019.

Martini, F./Keller, T./Klinger, U./Samula P. (Lecture): "Social Bots and How to Find Them: New Actors and New Tools in Political Discourses on Twitter", Conference ofthe Political Communication Section of the European Communication Research and Education Association, Poznań, Poland, September 12–13, 2019.

Martini, F./Keller, T./Klinger, U./Samula P. (Lecture): "Social Bots and How to Find Them: Human-Machine Communication in Political Discourses on Twitter", ICA Annual Conference, Preconference Human & Machine Interaction, Washington, D.C., USA, May 24, 2019.

Martini, F./Keller, T./Klinger, U./Samula P. (Lecture): "Social Bots als Diskursteilnehmer: Eine

vergleichende Perspektive", Annual Conference of the Deutsche Gesellschaft für Publizistik- und Kommunikationswissenschaft, Münster, May 9–11, 2019.

Martini, F./Keller, T./Klinger, U./Samula P. (Lecture): "It's complicated: Methoden zur Identifizierung von Social Bots im Vergleich", Deutschen Gesellschaft für Publizistik- und Kommunikationswissenschaft, Annual Conference 2019 of the "Politische Kommunikation" group, Duisburg, February 7–9, 2019.

Pfetsch, B./Stoltenberg D./Waldherr, A./Kligler-Vilenchik, N./ de Vries-Kedem, M. (Lecture): "How Local Is the Digital Public Sphere on Twitter? A Comparison between Berlin and Jerusalem", 69th Annual Conference of the International Communication Association (ICA), Washington, D.C., USA, May 24– 28, 2019.

Pfetsch, B. (Lecture): "Politische Kultur und Politische Kommunikation in dissonanten Öffentlichkeiten – Zum Zusammenhang von Digitalisierung und Demokratie", Jahrestagung der Medienstudierenden, FU Berlin, May 17, 2019.

Pfetsch, B. (Panel discussion): "Herausforderungen der Digitalen Ungleichheit in Wirtschaft und Gesellschaft", Weizenbaum Conference 2019, Berlin, May 16–17, 2019.

Pfetsch, B. (Keynote): "Liberal Democracy in Times of Dissonance, Disconnection and Noise – Implications for Comparative Political Communication Research", International Conference Comparative Media Studies in Today's World, Saint Petersburg State University, Saint Petersburg, Russia, April 16, 2019.

Pfetsch, B. (Input): "Herausforderungen der Digitalen Demokratie", Discussion with J. v. Dijk (University of Twente), Forum Medien und Medienwandel als theoretische und empirische Herausforderung, Institut für Publizistik und Medien, Vitznau, Switzerland, March 23, 2019.

Pfetsch, B. (Lecture): "Digital Dissonance, Disconnection and Noise and What It Means for Democracy", Bellwether Lecture at the Oxford Internet Institute, Oxford, February 28, 2019.

Pfetsch, B. (Panel discussion): "Macht die digitale Debatte den politischen Diskurs kaputt?". Telekom Forum, Deutsche Telekom AG Hauptstadtrepräsentanz, Berlin, February 21, 2019.

Pfetsch, B. (Lecture): "Fake News als Politische Kommunikationsstrategie – Entstehungsbedingungen und Folgen gezielter Falschinformationen", Lecture series of the Institut für Geschichtswissenschaften of the HU Berlin, Berlin, October 22, 2018.

Waldherr, A./Stoltenberg, D./ Maier, D./Pfetsch, B. (Lecture): "Translocalization of Public Spheres in a Digitized World", 7th European Communication Conference, ECREA, Lugano, Switzerland, November 01, 2018.

Zhang, X. (Lecture): "#HomeToVote and Irish abortion referendum 2018: Contentious Politics across Borders", Annual meeting of the Political Communication Section of the European Communication Research and Education Association, Posen, Poland, September 12–13, 2019.

Xixuan Z./Franziska M. (Lecture): "Disinformationsdynamiken in dissonanten Öffentlichkeiten", Fachbereichstag Politik- und Sozialwissenschaften, FU Berlin, May 16, 2019.

OTHER

Klinger, U. (Interview): "Über die Rolle von Desinformation in Social Media", ZDFzoom, August 28, 2019.

Klinger, U. (Interview) (2019): "Die Meinungsmacht im Internet", RBB/radioeins, Wissenschafts-Sendung "Die Experten", June 22, 2019, URL: https://www.radioeins.de/programm/send ungen/die_profis/ archivierte_sendungen/beitraege/ die-meinungsmacht-im-internet.html.

*THE CONTRIBUTIONS OF PROF. DR. BARBARA PFETSCH RELATE TO RESEARCH GROUPS 14 AND 15 AND ARE LISTED UNDER RESEARCH GROUP 14.

RESEARCH GROUP 15:
DIGITALISATION AND THE TRANSNATIONAL PUBLIC SPHERE

Benert, V. (Lecture): "The Use of Affective Communication by Right Wing Political Actors during Election Campaigns: Analyzing the Twitter Communication of the Alternative Für Deutschland (AfD) during the 2018 German State Elections in Bavaria and Hesse", Annual Conference of the International Association of Media and Communi- cation Research (IAMCR), Madrid, Spain, July 10, 2019.

Heft, A./Baack, S. (Lecture): "Serving a pan-European public sphere? Practices and outcomes of the "Europe's Far Right Research Network". Future of Journalism Conference 2019, Cardiff University's School of Journalism, Media and Culture, Cardiff, September 12–13, 2019.

Heft, A./Knüpfer, C./Mayerhöffer, E./Reinhardt, S./(Lecture): "Transnational networking and (dis-)integration among right- wing digital news ecologies in Europe and the US". Meeting of the Political Communication Section of the European Communication Research and Education Association, Poznań, Poland, September 12–13, 2019.

Heft, A./Reinhardt, S./Pfetsch, B./Bennett, W. L. (Lecture): "Measuring Movement-Party Networks on the Political Right. A Study on National and Transnational Linkages Across Six Countries", Symposium "Social Movements and Parties in a Fractured Media Landscape", COSMOS, Scuola Normale Superiore, Florence, Italy, July 1–2, 2019.

Heft, A. (Lecture): "Networked Public Spheres and Transnationality", Symposium "Theorizing Publics under Authoritarian Rule", Institut für Kommunikations- und Medienwissenschaft, FU Berlin, June 20, 2019.

Heft, A. & Reinhardt, S. (Lecture): "Transnational Networking and (Dis-)Integration among Right- Wing Digital News Ecologies in Europe and the Us", Workshop of Research Group 15 "Structures, Dynamics, and Audience Engagement

in Networked Public Spheres", FU Berlin, June 18, 2019.

Heft, A. (Lecture): "Rechte alternative Online-Medien, ihre Charateristika und Vernetzungsstrukturen im Ländervergleich", Workshop of Research Group 15 "Digitale Kommunikation von Rechts", Weizenbaum Institute, Berlin, June 4, 2019.

Heft, A. (Lecture): "Transnational Journalism Networks from Below", Hostwriter Stakeholder Meet-Up, Berlin, May 29, 2019.

Heft, A./Knüpfer, C. B./Mayerhöffer, E./Reinhardt, S. (Lecture): "Transnationaler Nationalismus? Vernetzung und (Des-)Integration zwischen rechten digitalen Nachrichtenökologien in Europa und den USA", Annual Conference of the Deutsche Gesellschaft für Publizistik- und Kommunikationswissenschaft, Westfälische Wilhelms-University Münster, Münster, May 9–11, 2019.

Heft, Annett (Panel discussion): "Digitale Öffentlichkeit", Thementage des Staatstheater Braunschweig zum Thema "Zukunft", Braunschweig, April 27, 2019.

Heft, A. (Guest lecture): "Transnational Communication in a Time of Disrupted Public Spheres ", Forschungskolloquium, Institut für Kommunikations- und Medienwissenschaft, University of Bern, Bern, Switzerland, November 29, 2018.

Heft, A. & Knüpfer, C. B. (Lecture): "Right-Wing News Infrastructures in Europe and the US", Workshop of Research Group 15 "Order and Disruption in the Attention Economy", FU Berlin, November 9, 2018.

Heft, A. (Guest lecture): "Cross-Border Collaborative Journalism and the Transnationalization of Public Spheres", MA lecture "Theorien und Befunde der politischen Kommunikationsforschung", Institut für Publizistik- und Kommunikationswissenschaft, FU Berlin, November 6, 2018.

Heft, A. (Lecture): "The Panama Papers and the Scope and Boundaries of its Networked Publics. Cross-Border Journalistic Collaboration Driving Transnationally Networked Public Spheres", International Conference "Journalism across Borders. The Production and 'Produsage' of News in the Era of Transnationalization, Destabilization and Algorithmization", Ilmenau, September 26–28, 2018.

Heft, A./Mayerhöffer, E./Reinhardt, S./Knüpfer, C. B. (Lecture): "Transnational Nationalism? Comparing Right-Wing Digital News Infrastructures in Western Democracies", Internet, Policy & Politics Conference IPP 2018, University of Oxford, Oxford, UK, September 20–21, 2018.

Hoffmann, M. (Lecture): "Exploring the Facebook Networks of German Anti-Immigration Groups", Conference on Research Design in Social Movement Studies der Scuola Normale Superiore, Cortona, Italy, May 12–14,.2019.

Hoffmann, M. (Guest lecture) "Social Media Usage on the Extreme Right – Networks, Identities, and Strategies", BA-Seminar "Media Activism and Social Movements", Institut für Publizistik- und Kommunikationswisschenschaft, FU Berlin, December 10, 2018.

Knüpfer, C. B./Bennett, W. L./ Hoffmann, M. (Lecture): "Attention Dynamics Between Right-Wing Populist Parties and Their Soci- al Media Followers: Tracing Issue Directionality on Facebook During the 2019 EP Election", ECPR General Conference, Wrocław, Poznań, September 04–07, 2019.

Knüpfer, C. B. (Lecture): "Right-Wing Information Networks, Populist Parties & the Spill-over of Deviant Issues in Hybrid Media Environments", Workshop of Research Group 15 "Structures, Dynamics, and Audience Engagement in Networked Public Spheres", FU Berlin, June 18, 2019.

Knüpfer, C. B. (Lecture): "Desinformation in dissonanten Öffentlichkeiten: Kampagne von Rechts gegen den Migrationspakt", Workshop of Research Group 15"Digitale Kommunikation von Rechts", Weizenbaum Institute, Berlin, June 4, 2019.

Knüpfer, C. B. (Lecture): "Right-Wing Information Networks, Populist Parties, and the Spill-over of Deviant Issues in Hybrid Media Environments", Workshop "Bubble Society and the Death of the Public Sphere", 24th Annual International Conference on Information Technology and Journalism (IPSA), Dubrovnik, Croatia, May 27–29, 2019.

Knüpfer, C. B./Klinger, U. (Lecture): "Disinformation Dynamics in Dissonant Public Spheres: Mapping the Campaign against the UN Global Compact for Migration", International workshop "Transformations in the Digital Age – Transformation of the Public Sphere", Stiftungsuniversität Hildesheim, Hildesheim, April 25-26, 2019.

Knüpfer, C. B. (Guest lecture): "Networked Propaganda, Digitalization, and the Transnational Public Sphere", Bard College Berlin, Berlin, April 02, 2019.

Knüpfer, C. B. (Lecture): "The Role of the Media in the US and Germany in Times of Fragmentation and Consolidation", Parliamentary mentorship programme / Congress-Bundestag Youth Exchange, Nuremberg, January 10, 2019.

Knüpfer, C.B. (Guest lecture): "US-amerikanische Medien und Kommunikationskultur: Konsolidierung, Fragmentierung und der digitale Strukturwandel der Öffentlichkeit", Lecture series on US politics and society at the Bergische Universität Wuppertal, Wuppertal, December 17, 2018.

Knüpfer, C. B. (Lecture): "The Other Breitbarts: Exploring the Populist Right Wing's Digital News Environment in the Us", Annual Meeting of the Political Science

Section of the German Society for American Studies (GAAS), Passau, November 16, 2018.

Knüpfer, C. B. (Guest lecture): "Transformation of the Media System in the US", Bard College Berlin, Berlin, November 13, 2018.

Knüpfer, C. B./ Hoffmann, M./Voskresenskii, V. (Lecture): "Hijacking Me Too: Transnational Dynamics of Digital Networks on the Far-Right and the Case of the '120 Decibels' Campaign", Internet, Policy & Politics Conference 2018, Oxford, UK, September 20–21, 2018.

Voskresenskii, Vadim (poster presentation): "Networks of European Right-Wing Online Groups on Russian Social Media", ICCSS 2019, Amsterdam, Netherlands, July 17–20, 2019.

OTHER

Knüpfer, C. B. (Interview): Trump je podobný Putinovi. Nesnaží se hledat pravdu, ale udržovat společnost v nejistotě, říká německý politolog Curd Knüpfer, Hospodnarske Noviny, Daily newspaper, Czech Republic, January 21, 2019.

Knüpfer, C. B. (Interview): "US Government Shutdown", DPA Kindernachrichten, January 11, 2019.

Knüpfer, C. B. (Interview): "Haushaltsstreit in den USA", WDR, Aktuelle Stunde, January 10, 2019.

Knüpfer, C. B. (Interview): "Nationalisten und Rassisten bei US Midterms: Die rechten Geister, die Trump rief", Spiegel Online, October 31, 2018, URL: https://www.spiegel.de/politik/ausland/midterm-wahlen-neonazis-nationalisten-holocaust-leugner-unter-republikanern-a-1235796.html [Accessed: September 22, 2019].

Knüpfer, C. B. (Interview): "Unter Beobachtung: Soziale Medien im US-Wahlkampf", Cash, October 27 2018, URL: https://www.cash.ch/news/politik/twitter-instagram-facebook-und-co-unter-beobach

tung-soziale-medien-im-us-wahlkampf-1219504 [Accessed: September 22, 2019].

Knüpfer, C. B. (Interview): "Neues Buch über Trump: 'Woodward tut gerne so, als wäre er die Fliege an der Wand", SRF, September 5, 2018, URL: https://www.srf.ch/news/international/neues-buch-ueber-trump-woodward-tut-gerne-so-als-waere-er-die-fliege-an-der-wand [Accessed: September 22, 2019].

THE CONTRIBUTIONS OF PROF. DR. BARBARA PFETSCH RELATE TO RESEARCH GROUPS 14 AND 15 AND ARE LISTED UNDER RESEARCH GROUP 14.

RESEARCH GROUP 16: SHIFTS IN NORM SETTING

Schiff, A. (Lecture): "Speech Regulation on Social Media", Digital Health Promotion Executive Leadership Summit, George Washington University, Washington, D.C., USA, June 02-04, 2019.

Schiff, A. (Lecture): "The European General Data Protection Regulation", Digital Health Promotion Executive Leadership Summit, George Washington University, Washington, D.C., USA, June 2-4, 2019.

Schiff, A. (Lecture): "Freiheit & Verantwortung in der digitalen Konstellation". Annual meeting of the DFG graduate college Privatheit & Digitalisierung, University of Passau, Passau, May 9-11, 2019.

Schiff, A. (Short lecture & panel discussion) "Digitale öffentliche Räume zwischen Staat und Gesellschaft", Kick-off event Humboldt Law Clinic Internetrecht, HU Berlin, Berlin, October 18, 2018.

Schrör, S. (Lecture): "Exploring Illegal and Grey Area Markets: Strategies, Conventions and Ethical Questions", Weizenbaum Research Retreat, Bad Belzig, August 5, 2019.

*THE CONTRIBUTIONS OF PROF. DR. AXEL METZGER, LL.M. (HARVARD) RELATE TO RESEARCH GROUPS 4 AND 16 AND ARE LISTED UNDER RESEARCH GROUP 4.

RESEARCH GROUP 17:
TRUST IN DISTRIBUTED ENVIRONMENTS

Beaucamp, S./Henningsen, S. (Workshop): Workshop on the state of the development of distributed-ledger technology in Europe, EU Commission, Berlin, June 4, 2019.

Beaucamp, S./Florian, M. (Lecture, Panel discussion): "Liability of Operators of Full Nodes for Data on the Bitcoin Blockchain", Veranstaltungsreihe Blockchain Nights, HU Berlin und Weizenbaum Institute, Berlin, December 12, 2018.

Becker, M. (Lecture): "Democracy in Crisis? What Is the Problem and Does It Need Assistance?", Event "Blockchain for Social Good: Blockchain-Assisted Democracy", Impact Hub Berlin, Berlin, May 21, 2019.

Becker, M. (Lecture): "Blockchain and the Promise(s) of Decentralisation: A Sociological Investigation of the Imaginaries of Blockchain", 18th Annual STS Conference Graz: Critical Issues in Science, Technology and Society Studies, Graz, Austria, May 6, 2019.

Florian, M./Beaucamp, S./Henning- sen, S./Scheuermann, B. (Lecture): "Erasing Data from Blockchain Nodes", IEEE Security & Privacy on the Blockchain (IEEE S&B), Stockholm, Sweden, June 20, 2019.

Florian, M. (Poster presentation und short talk): "Erasing Data from UTXO-Based Blockchains", 3rd ForDigital Blockchain Workshop, Institut für Telematik, KIT, Karlsruhe, February 14, 2019.

Henningsen, S. (Moderation, Panel discussion): "Eclipsing Ethereum Peers with False Friends", Blockchain Nights, HU Berlin and Weizenbaum Institute, Berlin, August 30, 2019.

Henningsen, S./Teunis, D./Florian, M./Scheuermann, B. (Lecture): "Eclipsing Ethereum Peers with False Friends", IEEE Security & Privacy on the Blockchain (IEEE S&B), Stockholm, Sweden, June 20, 2019.

Henningsen, S./Pernice, I./Proskalovich, R. (Lecture): "Understanding Monetary Stabilization in Cryptocurrencies. Approaches, Promises, Risks", 3rd ForDigital Blockchain Workshop, Institut für Telematik, KIT, Karlsruhe, February 14, 2019.

Henningsen, S. (Lecture): "Eclipse Attack on Ethereum's Overlay Network", 3rd ForDigital Blockchain Workshop, Institut für Telematik, KIT, Karlsruhe, February 14, 2019.

Pernice, I./Henningsen, S./Proskalovich, R./Florian, M./Elendner, H./Scheuermann, B. (Lecture): "Monetary Stabilization in Crypto-currencies – Design Approaches and Open Questions", IEEE Crypto Valley Conference on Blockchain Technology, Zug, Switzerland, June 25, 2019.

Pernice, I. (Lecture): "Stablecoins: In 5 minutes from Buzz to Structure", 2nd Berlin Conference on Crypto-Currencies in a Digital Economy (CCConf 2018), Berlin, November 29, 2018.

Scheuermann, B. (Workshop): "Blockchain-Technologie", Bundesministerium der Finanzen, Berlin, March 26, 2019.

RESEARCH GROUP 18:
QUANTIFICATION AND SOCIAL REGULATION

Eyert, F. (Lecture): "Knowledge Machines. Computational Models from the Perspective of a Political Epistemology of Computational Social Science". Conference "Scraping the Demos: Political Epistemologies of Big Data", WZB, Berlin, July 8–9, 2019.

Eyert, F./Reeg, M. (Organisation and moderation): Workshop "Policy-Modellbildungen und Simulationen – die Virtualisierung experimenteller Politik", WZB-Mercator Forum Wissenschaft und Politik 2018, Berlin, December 06, 2018.

Hölzel, J./Irgmaier, F. (Lecture): "Big-Data-gestütztes Nudging: Varianten, Legitimität, Rechtsfragen", Netzpolitischer Abend der Digitalen Gesellschaft e. V., Berlin, November 06, 2018.

Irgmaier, F. (Lecture): "Maschinelle Bürokraten: Algorithmen als Fortsetzung der Organisation mit anderen Mitteln", Lecture series "Digitale Kultur – Kultur digital", Philipps University Marburg, Marburg, June 06, 2019.

Irgmaier, F./Kettner, S. E. (Organisation and moderation): Workshop "Menschenbilder und Werte digitaler Verhaltenspolitik – Bestandsaufnahme, Grundannahmen, politische Implikationen", WZB-Mercator Forum Wissenschaft und Politik 2018, Berlin, December 7, 2018.

Irgmaier, F. (Lecture): "Inauthentische Präferenzen und unvermeidlicher Einfluss: Die anthropologischen Grundlagen der Rechtfertigung von Behavioural Public Policy", Joint colloquium of the working group "Governance und Verhalten", Helmholtz-Zentrum für Umweltforschung, Leipzig, November 13, 2018.

Rehak, R. (Lecture): Short introduction "Cyberkrieg", Meeting of the state group of Bündnis90/ Die Grünen, Berlin, May 31, 2019.

Rehak, R. (Lecture): "Quellen-TKÜ und heimliche Online-Durchsuchung – Von Sicherheitslücken, grauen Märkten und globalen Kollateralschäden", Meeting of the state group Netzpolitik of Bündnis90/Die Grünen, Berlin, March 21, 2019.

Rehak, R. (Lecture): "The Blockchain – Autonomy for the IT-Elite, New Vulnerabilities for the Rest?". Event series Blockchain Nights, HU Berlin and Weizenbaum Institute, Berlin, March 13, 2019.

Rehak, R. (Lecture): "Best of Informationsfreiheit – Transparenz mit der Brechstange", 35th Chaos Communication Congress "35C3 Refreshing Memories", Leipzig, December 29, 2018.

Rehak, R. (Lecture): "Was schützt eigentlich der Datenschutz? – Warum DatenschützerInnen aufhören müssen, von individueller Privatheit zu sprechen", 35th Chaos Communication Congress "35C3 – Refreshing Memories", Leipzig, December 28, 2018.

Rehak, R. (Lecture): "Political Conditions for a Safe Smart City – Two Necessary Techno-Political Factors for Safe and Secure Networked Systems", Conference of the Open University of the Netherlands
"Making the Smart City Safe for Citizens: The Case of Smart Energy and Mobility", Heerlen, Netherlands, November 28, 2018.

Rehak, R. (Lecture): "Proof of ignorance – Wie Blockchain-Anwendungen die moderne Gesellschaft missverstehen und gefährden", Dortmunder-Alumni Tage, Alumni der Informatik Dortmund e.V. – Fachbereich Informatik der Universität Dortmund, Dortmund, November 23, 2018.

Rehak, R. (Lecture): "Cyberpeace – Nur ein ziviles Internet ist nachhaltig", Conference "Bits & Bäume", TU Berlin, Berlin, November 18, 2018.

Rehak, R. (Lecture): "Gestaltungsfreiheiten und Machtmuster sozio-technischer Systeme", Conference "FIfKon18 – Brave New World", Forum InformatikerInnen für Frieden und gesellschaftliche Ver antwortung (FIfF) e.V., Berlin, September 28, 2018.

Ulbricht, L. (Lecture): "Sicherheitsgovernance durch Algorithmen. Demokratische Implikationen und Gestaltungsmöglichkeiten", Conference of the expert dialogue on Security research "Vielfältige Sicherheiten", Berlin, June 28, 2019.

Ulbricht, L. (Lecture): "Algorithmische Governance", Colloquim of the Otto-Suhr-Institut für Politikwissenschaft, FU Berlin, Berlin, June 24, 2019.

Ulbricht, L. (Lecture): "Regulation of the Data Economy", Lecture series "Digital Innovation", TU Berlin, May 20, 2019.

Ulbricht, L. (Lecture): "Big Data aus politikwissenschaftlicher Perspektive. Erkenntnisse aus dem ABIDA-Projekt", Concluding workshop of the ABIDA project, Westfälische Wilhelms-University Münster, Münster, May 9, 2019.

Ulbricht, L. (Lecture): "IT Security in Organisations – Insights from German Higher Education and Research Institutions", Conference of the comparative political science of the Deutsche Vereinigung für Politikwissenschaft, School of Governance, Technical University Munich, March 21–23, 2019.

Ulbricht, L. (Lecture): "Algorithmen als Institution. Regulierung durch Technik und deren gesellschaftliche Implikationen", Lecture series "Information Governance", TU Berlin, February 04, 2019.

Ulbricht, L. (Lecture): "Algorithms and Predictive Policing". Workshop "Algorithms and Society", Free University of Brussels, Bruxelles, Belgium, December 10, 2018.

Ulbricht, L. (Panel discussion): "Evidence-Based Policy through Big Data?". WZB-Mercator Forum Wissenschaft und Politik, Berlin, December 06, 2018.

Ulbricht, L./Eyert, F./Irgmaier, F. (Presentation): "Regulation in the Digital Age. Developing Further the Framework of Algorithmic Regulation", Joint colloquium of the research group "Politics of Digitalisation" of the WZB and the research area "Policy & Governance" of the Alexander von Humboldt Institute for Internet and Society, Berlin, December 4, 2018.

Ulbricht, L. (Lecture): "Digitalisierung und Politikberatung – Neue Evidenzen, neue Regulierungsformen?", Mercator Roundtable "Praxis wissenschaftlicher Politikberatung", Berlin, November 14, 2018.

Ulbricht, L. (Lecture): "Auf dem Weg zur Nationalen Forschungsdateninfrastruktur (NFDI): Für, mit, ohne die Politikwissenschaft?", Panel Diskussion, Conference of the Deutsche Vereinigung für Politikwissenschaft, Frankfurt a. M., September 28, 2018.

Ulbricht, L. (Lecture): "Präemption versus Prädiktion in der Sicherheitspolitik. Konkurrenz für das klassische Paradigma wissenschaftlicher Evidenz?", Panel "(Un)Demokratische Grenzen evidenzbasierter Politik", Conference of the Deutsche Vereinigung für Politikwissenschaft, Frankfurt a. M., September 27, 2018.

Ulbricht, L. (Moderation): "A Fast Moving Technology like AI – Societal Impact and Governance Implications", panel discussion, Alexander von Humboldt Institut für Internet und Gesellschaft, Berlin, September 12, 2018.

OTHER

Irgmaier, F. (Blogpost, interview): "Big Data und Nudging: Marketing oder Manipulation?", November 22, 2018, URL: https://www. hiig.de/big-data-und-nudging-marketing-oder-manipulation/ [Accessed: September 21, 2019].

Irgmaier, F. (Interview) (2018): "Big Data und nudging: Marketing or manipulation? Interview with Florian Irgmaier". In: encore: the annual magazine on internet and society research, 5, p. 29–32.

*THE CONTRIBUTIONS OF PROF. DR. JEANETTE HOFMANN RELATE TO RESEARCH GROUPS 12 AND 18 AND ARE LISTED UNDER RESEARCH GROUP 12.

RESEARCH GROUP 19:
DIGITALISATION AND NETWORKED SECURITY

Huber, R. (Preparation, planning, implementation, moderation and documentation): 9. Meeting of Berlin-/Brandenburg data protection officers, IT managers and information security officers from universities and non-university research institutions at Fraunhofer FOKUS, Berlin, June 04, 2019.

Huber, R. (Preparation, Planning, Implementation, Moderation und Documentation): "Stereotype, Vokabular und Erfahrungen", Event "Woosh, die Show", Hochschule für Technik und Wirtschaft Berlin, Berlin, June 7, 2019.

Huber, R. (Lecture): "Digitalisierung und vernetzte Sicherheit", Event "IT-Sicherheit in Forschung Lehre und Weiterbildung", Hochschule für Technik und Wirtschaft Berlin, April 09, 2019.

Huber, R.: (Moderation and lecture): "Aktueller Fall der Datenaggregation durch einen 17-jährigen Schüler – warum die Öffentlichkeit überreagiert", Event of the Bundesverband Professioneller Mobilfunk e.V., Annual Meeting at Fraunhofer FOKUS, Berlin, January 16, 2019.

Huber, R. (Preparation, Planning, Implementation, Moderation and Documentation): 8th Meeting of the Berlin-Brandenburg dataprotection officers, IT managers and information security officers from universities and non-university research institutions at Fraunhofer FOKUS, Berlin, December 17, 2018.

Huber, R. (Moderation event slots, participation in podium discussion, start-up-presentation, exhibition stand, lecture):
"IT-Sicherheit erlebbar machen in einem Cybersicherheitslabor", Strategy summit IT & Information Security, Project Networks, Berlin, November 27-28, 2018, URL:
https://www.project-networks.comevents/it-information-security-3/ [Accessed: September 22, 2019].

Lamprecht, S. (Lecture): "Mobile Kommunikationstechnologien – ein steiniges Gelände für die Technikfolgenabschätzung?", 8. international conference of the network Technikfolgenabschätzung, Karlsruhe, November 7–8, 2018.

Lamprecht, S. (Lecture): "Predictive Policing für alle. Ein neues Sicherheitsinstrument aus unterschiedlichen theoretischen Perspektiven", Annual Conference of the Gesellschaft für Wissenschafts- und Technikforschung e. V., Berlin, November 16, 2018.

Lutz, O. (Lecture): "Surfing in Sound: Sonification of Hidden Web Tracking", International Conference on Auditory Display (ICAD), Newcastle-upon-Tyne, UK, June 25, 2019.

Lutz, O (Expert roundtable): Invited expert in the field of Human-Computer-Interaction, Council of Experts: The Shape of Things to Come, Replica and Weizenbaum Institute, Berlin, June 19, 2019.

Lutz, O (Lecture): "Online-Privatsphäre und Web Tracker Sonification", Lange Nacht der Wissenschaften, Hochschule für Technik und Wirtschaft, Berlin, June 15, 2019.

Lutz, O (Lecture): "Web Tracker Sonification", SecHuman Summer School, SecHuman Forschungskolleg NRW, Ruhr-University Bochum, Bochum, June 5, 2019.

Lutz, O (Lecture): "Online-Privatsphäre und Web Tracker Sonification", Event "IT-Sicherheit in Forschung Lehre und Weiterbildung", Hochschule für Technik und Wirtschaft Berlin, Berlin, April 9, 2019.

Tehrani, P. F. (Poster presentation): "Semantic-Centric Networks for Disaster Management", International Conference on Networked Systems 2019 (NetSys), Garching b. Munich, October 15, 2018.

OTHER

Huber, R.: Participation in third expert meeting of the BMBF and VDE/VDI in the topic cycle "Seaand oceans", BMBF, Berlin, May 14, 2019.

Huber, R.: Participation in second expert meeting of the BMBF and VDE/VDI in the topic cycle "Sea and oceans", BMBF, Berlin, February 1, 2019.

Huber, R.: Reviewer for the preparation of the Weizenbaum Conference 2019 "Challenges of Digital Inequality: Digital Education, Digital Work, Digital Life", Berlin, May 16–17, 2019.

*THE CONTRIBUTIONS OF PROF. DR. MANFRED HAUSWIRTH RELATE TO RESEARCH GROUPS 11 AND 19 AND ARE LISTED UNDER RESEARCH GROUP 11.

RESEARCH GROUP 20:
CRITICALITY OF AI-BASED SYSTEMS

Druga, S. (Lecture): "Growing up with AI – Challenges and Opportunities for AI Education", App Camps and Körber-Stiftung, "Digital Summits für Lehrkräfte", Hamburg, February 15, 2019.

Druga, S. (Panel discussion): "Making the Future", KörberForum, Körber-Stiftung, Hamburg, February 14, 2019.

Kazimzade, G. (Lecture): "Bias and Discrimination in AI", Summer School in IVADO, MILA, Quebec Artificial Intelligence Institute, Montreal, Canada, June 3–6, 2019.

Kazimzade, G. (Lecture): "Bias and Discrimination in AI", Women in Machine Learning Meetup, Berlin, May 28, 2019.

Kazimzade, G. (Lecture): "Racial and Gender Bias in AI", AI Innovation Camp, Kompetenzzentrums Kultur- und Kreativwirtschaft des Bundes, Berlin, March 30, 2019.

Kazimzade, G. (Lecture): "Racial and Gender Bias in AI", TEDxHUBerlin, Berlin, December 01, 2018.

Kazimzade, G. (Lecture): "Racial and Gender Bias in AI", OEB Learning Technologies Europe GmbH, Berlin, December 05–06, 2018.

Kazimzade, G. (Lecture): "Racial and Gender Bias in AI", Data Products Meetup, Outfittery GmbH, Berlin, November 14, 2018.

Miceli, M. (Lecture): "Classifications as Power Technologies", Data Science Meetup, Ubiqum Code Academy, Berlin, May 27, 2019.

Miceli, M. (Workshop): "AI's Symbolic Power: Classification in the Age of Automation – Human-Centered Study of Data Science", Work Practices Workshop at CHI2019, Glasgow, UK, May 5, 2019.

Schieferdecker, I. (Lecture): "Nachhaltigkeit im digitalen Zeitalter", Symposium on the great challenges in environment, climate, society and sustainability on the occasion of the 80th birthday of

Ernst Ulrich von Weizsäcker, Berlin, June 25, 2019.

Schieferdecker, I. (Tutorial): "Fundamentals of IoT Testing", 14th Intern. Summer School on Software Engineering (ISSSE 2019), Salerno, Italy, June 17–21, 2019.

Schieferdecker, I. (Lecture): "Impulsvortrag zu Digitalisierung in und für Berlin", 2nd meeting of the Zukunft Berlin Forum, Berlin, June 13, 2019.

Schieferdecker, I. (Lecture): Presentation of the WBGU main report "Unsere gemeinsame digitale Zukunft", Meeting of the Arbeitsstab für digitale Transformation in Wirtschaft und Gesellschaft, Auswärtiges Amt, Berlin, June 12, 2019.

Schieferdecker, I. (Lecture): Presentation and Discussion WBGU main report "Unsere Gemeinsame Digitale Zukunft", Umweltbundesamt, Dessau-Roßlau, May 29, 2019.

Schieferdecker, I. K. (Lecture): "Software-Engineering und Personenzertifizierung", 28th Cyber Security Day, Allianz für Cyber-Sicherheit in cooperation with the Gesellschaft für Informatik e.V. and the Fraunhofer Academy, Munich, May 28, 2019.

Schieferdecker, I. K. (Lecture): "Can Software Be Accountable? If Not, Who/What Can Be Accountable?" Workshop "Can Software Be Responsible ?! ", University Tübingen, Tübingen, May 22, 2019.

Schieferdecker, I. (Lecture): Presentation WBGU main report "Unsere gemeinsame digitale Zukunft", Bundespressekonferenz e. V., Berlin, April 11, 2019, URL: https://netzpolitik.org/2019/umweltgutachten-digitalisierung-ist-heute-brandbeschleuniger-fuer-ressourcen-raubbau-und-ungleichheit/ [Accessed: September 22, 2019].

Schieferdecker, I. (Lecture): "Fit for Digitalisation – We Network All", European Women's Management Development, Region Berlin-Brandenburg, Berlin, March 21, 2019.

Schieferdecker, I. (Lecture): "Software-Verlässlichkeit – entscheidender Erfolgsfaktor für Industrie 4.0 und Künstliche Intelligenz", Conference about Software Reliability of the Münchner Kreis, Berlin, March 13, 2019.

Schieferdecker, I. (Lecture): "How to Transfer Research Results to Industry without Loss in Effectivity?" Wirtschaftsrat of the CDU, Berlin, January 30, 2019.

Schieferdecker, I. (Lecture): "Weniger verbrauchen, mehr schaffen – Potenziale der Industrie 4.0 für Umwelt und Gesellschaft von morgen", Plattform Industrie 4.0, Berlin, January 17, 2019.

Schieferdecker, I. (Lecture): "Unsere gemeinsame digitale Zukunft" – Status of the WBGU main report, expert discussion GIZ – Tech-Trends für Energie und Stadtentwicklung, Berlin, November 12, 2018.

Schüßler, M./Weiß, P. (Poster presentation): "Minimalistic Explanations: Capturing the Essence of Decisions", Conference on Human Factors in Computing (CHI 2019), Glasgow, UK, May 04–09, 2019.

Schüßler, M. (Lecture): "What's the Value of Explainable AI for End-Users?", Seminar Series at City University, Centre for Human-Computer Interaction Design, London, UK. May 1, 2019.

Schüßler, M. (Workshop): "Where is the Human? Bridging the Gap Between AI and HCI", Conference on Human Factors in Computing (CHI 2019), Glasgow, UK, May 4, 2019.

Serbanescu, D. (Jury session): "#KI50: Künstliche Intelligenz – gestern, heute, morgen", Science year 2019, Gesellschaft für Informatik, Berlin, May 7, 2019.

Serbanescu, D. (Panel discussion): "AI – Art – I", re;publica19, Berlin, May 6, 2019.

Serbanescu, D. (Lecture): "Testing Embedded Real-Time Systems with TTCN-3 – Retrospective", International Conference on Software Testing (ICST2019), Xian, China, April 26, 2019.

Serbanescu, D. (Lecture): "Explainathon – Introduction", AI Innovation Camp, Kompetenzzentrum Kultur- und Kreativwirtschaft des Bundes, Berlin, March 29, 2019.

Serbanescu, D. (Lecture): "Quality Factors for AI-based Systems", Conference on software reliability of the Münchner Kreis, Berlin, March 13, 2019.

Serbanescu, D. (Short lecture panel discussion) "Silver Farms: Art and AI – Shamans of the Digital Renaissance, (Un-)ergründlich – Künstliche Intelligenz als Ordnungsstifterin", State Festival Foundation gGmbH, Berlin October 18, 2018.

Serbanescu, D. (Panel discussion): "Data-Sovereignty – Privacy and Security in Consumer IT and Public IT", Alumni Conference Online Trust, Boston, USA, September 24–25, 2018.

Weber-Guskar, E. (Lecture): "Time, Good Life and Threats through Digitization", Conference "Desynchronized Me. Literary, Psychological, Philosophical and Theological Perspectives on Psychopathology from 1890-1950", Karlsruhe Institute for Technology, Karlsruhe, September 13, 2019.

Weber-Guskar, E. (Lecture): "Critique of the Critique: Moralism in Online Comments", Wittgenstein Symposium, Kirchberg, Austria, August 5, 2019.

Weber-Guskar, E. (Panel discussion): "Long Night of AI and Creativity", Literaturhaus Stuttgart, Stuttgart, July 3, 2019.

Weber-Guskar, E. (Lecture): "Ethics, Emotions and AI – What Are Appropriate Emotions Towards Robots?", Institut für Philosophie, University of Oldenburg, Oldenburg, July 1, 2019.

OTHER

Druga, S. (Interview): "Der große Umbruch Teil 2.0" Documentary by Tilman Wolf und Ranga Yogeshwar, WDR TV, May 7, 2019,
9 p.m.

CROSS-CONSORTIUM LECTURES

Friesike, S. (Lecture): "Digitalisierung ist die Antwort. Was war nochmal die Frage?", Future forum Schreiner 2019, Munich, July 12, 2019.

Friesike, S. (Lecture): "Digital Innovation: What Could Possibly Go Wrong?", Future of Leadership Salon, Düsseldorf, July 4, 2019.

Friesike, S. (Lecture): "Designing Digital Transformation: A Field Report from Germany", Kompetenz-Zentrum für Nonprofit Organisationen und Social Entrepreneurship, Wirtschaftsuniversität Vienna, Berlin, May 20, 2019.

Friesike, S. (Lecture): "Digitalisierung gestalten: Eine Momentaufnahme", zam Steiermark: "Digitalisierung: Die Chance für Frauen am Arbeitsmarkt", Graz, Austria, May 16, 2019.

Friesike, S. (Lecture): "Designing Digital Innovation: A Field Report from Germany", Miltenyi Biotec GmbH, Bergisch Gladbach, May 9, 2019.

Friesike, S. (Lecture): "Skeptische Neugier: Erlebnisbericht Digitalisierung", Spring reception of Allen & Overy LLP, Düsseldorf, May 8, 2019.

Friesike, S. (Lecture): "Innovation und Digitalisierung: Original statt Kopie", Digitalforum – Conference for digitalisationVelden, Austria, 04.04.2019.

Friesike, S. (Lecture): "Digitalisierung in Arbeit und Beruf", Industrie- und Handelskammer Flensburg, Flensburg, March 04, 2019.

Friesike, S. (Lecture): "Digitalisierung. Annahmen und Herausforderungen", eQualifications BMBF, Bonn, February 26, 2019.

Friesike, S. (Lecture): "Neues Denken, neues Handeln, neue Wege gehen", BusinessForum Main-Tauber, Niederstetten, February 21, 2019.

Friesike, S. (Lecture): "Digitalisierung: gestalten: Eine Momentaufnahme", Hanser Verlag, Munich, February 14, 2019.

Friesike, S. (Lecture): "Skeptical Curiosity: My Field Report 'Digitaltransformation'", Deutsche Pfandbrief AG, Munich, February 1, 2019.

Schieferdecker, I. (Panel discussion) (2019): "Wer steuert wen? – Die Stellung der Verbraucher*innen im Zeitalter der Algorithmen", Veranstaltung der Senatsverwaltung für Justiz, Verbraucherschutz und Antidiskriminierung, Berlin, February 28, 2019.

Schieferdecker, I. (Panel discussion) (2019): "Wie werden wir in Zukunft leben", Event series"Wissenschaft, natürlich!", WZB and Museum of Natural History, Berlin, January 25, 2019.

Schieferdecker, I. K./Göpel, M. (Lecture): "Digitalisation at the Service of Sustainability – Towards Our Common Digital Future", Lunchtime Conference "Digitalisation and Environment Policy", EU Commission, Brussels Belgium, February 18, 2019.

Schieferdecker, I. (Panel discussion): "Wie innovationsfit ist Deutschland?", Innovation congress of the Fraunhofer-Gesellschaft e. V., Naumann-Stiftung, Arbeitsgemeinschaft industrieller Forschungsvereinigungen "Otto von Guericke" e.V. and Verband der Chemischen Industrie e. V., Berlin, December 5, 2018.

Schieferdecker, I. (Panel discussion): "Intelligent vernetzte Städte und Regionen als gesamtgesellschaftliche Aufgabe", Digital Summit 2018, Nuremberg, December 3, 2018.

Schieferdecker, I. (Panel discussion): "Wie kann Sicherheit in einer vernetzten Welt erreicht werden?", Eco Congress 2018, Cologne, November 28,.2018.

Schieferdecker, I. (Panel discussion): "Themenkomplex Digitale Ethik – Unterdrücken uns Algorithmen?" Berlin Science Week 2018, Berlin, November 6, 2018.

Schieferdecker, I. (Panel discussion) (2018): "Chancen und Herausforderungen der Digitalisierung", NRW-Dialogforum 2018, Düsseldorf, October 29–30, 2018.

Schieferdecker, I. (Panel discussion): "Big Data – Mehr als ein Hype", Reviewer Meeting of the BMBF in the project ABIDA – Assessing Big Data, Berlin, October 18, 2018.

Schieferdecker, I. (Panel discussion): "Turning Digitalization into a Lever for Sustainability: Where Is the European Vision?", 26. EEAC Annual Conference, Berlin, October 11, 2018.

Zech, H. (Lecture): "Digitale Netzwerke als technikrechtliches Problem", Lecture series of the cross-sectional area "Autonome Systeme und Selbstbestimmung" (ASSD), Berlin, June 20, 2019.

Zech, H. (Lecture): "Zivilrechtliche Perspektive", Panel: "Mobile Health Apps: Wem gehören (Gesundheits-) Daten?" Conference on E-Health, Apps and Data, University Basel, Basel, Switzerland, June 06, 2019.

Zech, H.: (Lecture): Workshop Rechtswissenschaft und (angewandte) Universitätsübergreifendes Graduiertenkolleg "Recht der Informationsgesellschaft", doctoral seminar, University Trier, Trier, May 24–25, 2019.

Zech, H. (Lecture): "Besitz an Daten?", Institut für Geistiges Eigentum, Datenschutz und Informationstechnologie, Ruhr-University Bochum, Bochum, April 25, 2019.

Zech, H. (Inaugural lecture): "Recht und Technik: Die Aufgaben des Rechts im Bereich der Informationstechnologie", Tag der Informatik 2019, Institut für Informatik, HU Berlin, Berlin, May 2 2019.

Zech, H. (Lecture): "Schutzbedarf im Lichte traditioneller Rechtfertigungstheorien?", Schweizer Forum für Kommunikationsrecht, 18th Urheberrechtstagung: "Künstliche Intelligenz – Herausforderung für das (Urheber-) Recht?", Zurich, Switzerland, April 16, 2019.

6.3 Prizes and awards

Bajpai, V./Brunström, A./Feldmann, A./Kellerer, W./Pras, A./ Schulzrinne, H./Smaragdakis, G./ Wählisch, M./Wehrle, K.: The paper "The Dagstuhl Beginners Guide to Reproducibility for Experimental Networking Research" hasbeen awarded the label "best of CCR" paper and was presented at ACM SIG-COMM 2019 as part of the main programme, Beijing, China, August 21, 2019.

Baumann, A. Best Associate Editor Award of the European Conference on Information Systems 2019, Stockholm, Sweden, June 8–14, 2019.

Feldmann, A.: Vodafone Innovation Award 2018 of the Vodafone Foundation for their excellent and innovative work in the field of development and optimisation of the architecture of the internet, Dusseldorf, January 29, 2019.

Feldmann, A.: Friedrich Wilhelm Joseph von Schelling Award2018 of the Bayerische Akademie der Wissenschaften for her outstanding achievements in the field of of information technology in particular in relation to internet protocols and the architecture of the internet, Munich, December 08, 2018.

Großmann, J./Serbanescu, D./Schieferdecker, I.: Most Influential Paper award at ICST 2019 for their paper from 2009 entitled "Testing Embedded Real Time Systems with TTCN-3", Xian, China, April 23, 2019.

Henningsen, S./Teunis D.: Bug-Bounty of the Ethereum project for discovering the eclipse vulnerability (see other publications), Berlin, June 4, 2019.

Kazimzade, G. Scholarship for PyTorch Challenge by Facebook AI Team, Berlin, November 9, 2018.

Kazimzade, G. TADHACK Global Hackathon Winner, Berlin, October 15, 2018.

Kazimzade, G. Travel Grant Winner for Google I/O, Mountain View, Canada, October 3, 2018.

Krasnova, H.: Top 10% in the BWL Author Ranking and "Under 40 Ranking" (WirtschaftsWoche BWL Ranking, 2019).

Pfetsch, B.: NEWA Award for Excellent Research in Communication Theory, St. Petersburg State University, Saint Petersburg, Russia, April 18, 2019

Schaetz, N.: Top Paper Award of the Global Communication and Social Change Division of the International Communication Association for Words Transcend Borders? Proper Distance and Global News Coverage of the Migration Crisis of June 2018 by Alexa Robertson and Nadja Schaetz, Washington, D.C., USA, May 27, 2019.

Streibelt, F./Lichtblau, F./Beverly, F./Feldmann, A./Pelsser, C./Smaragdakis, G./Bush, R.: 2019 IETF/IRTF Applied Networking Research Prize (ANRP) for "BGP Communities: Even More Worms in the Routing Can", ACM Internet Measurement Conference 2018 (IMC '18), Boston, USA, Oktober 2018.

Thimmaraju, K./Shastry, B./Fiebig, T./Hetzelt, F./Seifert, J.-P./Feldmann, A./Schmid, S. Best Paper Award for "Taking Control of SDN-Based Cloud Systems via the Data Plane", ACM Symposium on SDN Research (SOSR) 2018, Los Angeles, USA, March 28–29, 2018

6.4 Teaching

FREIE UNIVERSITÄT BERLIN

Emmer, M. (Winter Semester 2018/2019): Seminar – Digitalisierung und gesellschaftliche Partizipation.

Emmer, M. (Winter Semester 2018/2019):
BA colloquium – Mediennutzung + Medienanalyse/Forschungsmethoden.

Emmer, M. (Winter Semester 2018/2019): Project-oriented teaching of scientific problem analysis – MA Publizistik- und Kommunikationswissenschaft and MA Medien und Politische Kommunikation.

Emmer, M. (Winter Semester 2018/2019): Lecture – Mediennutzung und Medienwirkung.

Emmer, M. (Winter Semester 2018/2019): MA colloquium – Mediennutzung.

Emmer, M. (Winter Semester 2018/2019): Doctoral colloquium

Hofmann, J./Eyert, F. (SuSe 2019): MA core seminar – Theorien des Digitalen: Gesellschaft, Wirtschaft, Politik (1).

Hofmann, J./Berg, S. (Winter Semester 2018/2019): MA seminar – Demokratie und Digitalisierung.

Klinger, U. (Summer Semester 2019): MA seminar – Europawahl 2019 – Kampagnen in digitalen Öffentlichkeiten.

Klinger, U. (Summer Semester 2019): MA seminar – Schlüsselkonzepte digitaler Öffentlichkeiten, Teil II.

Klinger, U. (Winter Semester 2018/2019): BA seminar – Gender und digitale Kommunikation.

Klinger, U. (Winter Semester 2018/2019): MA seminar – Schlüsselkonzepte digitaler Öffentlichkeiten, Teil I.

Krzywdzinski, M. (Winter Semester 2018/2019): MA seminar – Theorien über den Wandel der Arbeitswelt. Von der ersten bis zur vierten industriellen Revolution und der Debatte über Digitalisierung der Arbeit.

Pfetsch, B. (Summer Semester 2019): MA colloquium – Empirische Kommunikationsforschung.

Pfetsch, B. (Summer Semester 2019): BA colloquium – Empirische Kommunikationsforschung.

Pfetsch, B. (Winter Seminar 2018/19): MA colloquium – Empirische Kommunikationsforschung.

Pfetsch, B. (Winter Seminar 2018/19): MA lecture – Theorien und Befunde der empirischen Kommunikationsforschung.

Pfetsch, B. (Winter Seminar 2018/19): BA seminar – Einführung in die empirische Kommunikationsforschung.

Pfetsch, B. (Winter Seminar 2018/19): BA lecture – Einführung in die empirische Kommunikationsforschung.

HUMBOLDT-UNIVERSITÄT ZU BERLIN

Efroni, Z. (Summer Seminar 2019): Lehrveranstaltung HLCI, Recht der Datenökonomie.

Florian, M./Beaucamp, S./Becker, M./Henningsen, S./Pernice, I.G.A. (Summer Semester 2019): Seminar for Informatics master's – Verteilte Systeme und die Gesellschaft.

Metzger, A. (Summer Semester 2019): Lecture
– Juristische Methodenlehre.

Metzger, A. (Summer Semester 2019): Lecture
– Internationales Immaterialgüterrecht.

Metzger, A. (Summer Semester 2019): Seminar
– Praxisseminar zu Pflanzenzüchtung und rechtlichen Fragen der Biotechnologie.

Metzger, A. (Summer Semester 2019 & Winter Semester 2018/19): Substantive supervision – Humboldt Law Clinic Internetrecht.

Metzger, A. (Winter Semester 2018/2019): Lecture – Private International Law.

Metzger, A. (Winter Semester 2018/2019): Seminar – Law and Technology in China and Germany: A Comparative Law Seminar.

Metzger, A. (Winter Seminar 2018/19): Lecture – Patentrecht.

Pinkwart, N. (Summer Semester 2019): Lecture – Soziale Medien und Kooperationssysteme.

Pinkwart, N. (Summer Semester 2019): Lecture – Einführung in die Didaktik der Informatik.

Pinkwart, N. (Summer Semester 2019): Seminar – Fortgeschrittene Themen der Didaktik der Informatik.

Pinkwart, N. (Winter Semester 2018/2019): Lecture – Mensch-Computer-Interaktion.

Pinkwart, N. (Summer Semester 2019): Semester project – Playfully fostering socioemotional behaviour in children with autism.

Scheuermann, B. (Summer Semester 2019): Lecture – Digitale Systeme.

Scheuermann, B. (Summer Semester 2019): Lecture – Peer-to-Peer-Systeme.

Scheuermann, B. (Summer Semester 2019): Experimental games – peer reviews.

UNIVERSITY OF THE ARTS BERLIN

Hilbig, R. (February 2019): Einführung Strategisches Management
– Strategy I, Master's programme – Leadership in Digitaler Kommunikation (further education).

Herlo, B. (Winter Semester 2018/2019): BA methodology course – Digitale Kompetenz als Kulturtechnik.

Joost, G. (Summer Semester 2019): Colloquium – Designmethoden, Kultur der Digitalisierung.

Joost, G. (Winter Semester 2018/2019): BA Theorie und Methoden – Design Research Kolloquium.

Joost, G. (Summer Semester 2019): BA Theorie und Methoden – Design Research Kolloquium.

Joost, G. (Winter Semester 2018/2019): Colloquium – Designmethoden, Kultur der Digitalisierung.

Renz, A. (February 2019): Introduction to entrepreneurship – Entrepreneurship I, LDK-Studiengang, further education.

Schildhauer, T. (SuSe 2018, WiSe 2018/2019): Master's colloquium – Leadership in Digitaler Kommunikation

TECHNISCHE UNIVERSITÄT BERLIN

Hauswirth, M. (Summer Semester 2019): Lecture and seminar – Grundlagen Digitaler Vernetzung.

Hauswirth, M. (Summer Semester 2019): Programmer internship – Moderne verteilte Anwendungen.

Hauswirth, M./Radusch, I./Becker, D. (Summer Semester 2019): Project – DCAITI: Project – Vernetztes und automatisiertes Fahren.

Hauswirth, M./Radusch, I./Protzmann, R. (Summer Semester 2019): Project – DCAITI: Simulation – Vernetztes und automatisiertes Fahren.

Hauswirth, M./Radusch, I./Becker, D. (Summer Semester 2019): Project – DCAITI: Advanced project – Vernetztes und automatisiertes Fahren.

Hauswirth, M./Steglich, S. (Summer Semester 2019): Project – Advanced Web Technologies.

Hauswirth, M. (Winter Semester 2018/2019): Lecture and exercise – Einführung in die Programmierung.

Hauswirth, M./Steglich, S. (Winter Semester 2018/2019): Project – Advanced Web Technologies.

Hauswirth, M./Radusch, I./Becker, O. (Winter Semester 2018/2019): Seminar – Autonome Fahrzeuge.

Hauswirth, M./Radusch, I./Becker, D. (Winter Semester 2018/2019): Project – DCAITI Projekt.

Hauswirth, M./Radusch, I./Protzmann, R. (Winter Semester 2018/2019): Project – Simulation of Vehicle-2-X Communication.

Schieferdecker, I., Vassiliou-Gioles, T. (Summer Semester 2019): Projekt – PJ SQE: Software Quality Engineering.

Schieferdecker, I., Vassiliou-Gioles, T. (Summer Semester 2019): Lecture – Grundlagen des Softwaretestens.

Schieferdecker, I., Vassiliou-Gioles, T. (Winter Semester 2018/2019): Project – Das AMOS-Projekt: Agile Methoden (Scrum und XP) und Open-Source-Softwareentwicklung anhand eines konkreten Entwicklungsprojekts.

Schieferdecker, I., Vassiliou-Gioles, T. (Winter Semester 2018/2019): Lecture – MDSE – Modellgetriebene Software-Entwicklung.

UNIVERSITY OF POTSDAM

Baumann, A./Gladkaya, M./Köster, A. (Winter Semester 2018/2019): MA seminar – Social Media Research Project.

Baumann, A./Gladkaya, M./Köster, A. (Winter Semester 2018/2019): MA seminar – Social Media & Business Analytics.

Gronau, N./Matthiessen, J./Vladova, G. (Summer Semester 2019): MA lecture and exercise – Betriebliches Wissensmanagement.

große Deters, F. (Summer Semester 2019): MA seminar – Methods of Psychology in Information Systems.

Heuts, A. (Winter Semester 2018/2019): Exercise – Einführung in die Programmierung in Java.

Köster, A./Baumann, A./Gladkaya, M. (Winter Semester 2018/2019): Seminar, Master's – Social Media Research Project.

Köster, A./Baumann, A./Gladkaya, M. (Winter Semester 2018/2019): Seminar, Master's – Media & Business Analytics.

Krasnova, H./Baum, K./Baumann, A./Bergert, C./Köster, A. (Summer Semester 2019): MA seminar – Social Media and Digital Privacy.

Teichmann, M. (Summer Semester 2019): Studierendenprojekt – Analyse und Konzeption.

Teichmann, M./Matthiessen, J. (Summer Semester 2019): MA seminar – Aktuelle Themen der Wirtschaftinformatik.

Teichmann, M. (Winter Semester 2018/2019): BA exercise – Geschäftsprozessmanagement.

Ulbricht, L./Hipp, L./Konrad, M. (Winter Seminar 2018/19): MA seminar and Tutorial – Studying Social Stratification with Big Data.

Vladova, G. (Winter Semester 2018/2019): MA seminar – Seminar Wissensvermittlung und Weiterbildung im digitalen Wandel.

FRAUNHOFER FOKUS

Fotouhi Tehrani, P. (Summer Semester 2019): M.Sc. Lecture – Datei- und Datenbanksysteme.

Fotouhi Tehrani, P. (Summer Semester 2019): B.Sc. Seminar – Internet-Kommunikation.

Fotouhi Tehrani, P. (Winter Semester 2018/2019): B.Sc. Lecture – Mobile Anwendungen.

Huber, R. (Summer Semester 2019): Lecture – Digitalisierung, Jäger und Gejagte und Barrieren in unserem Denken, GDV-Vorlesung.

Lutz, O. (Winter Semester 2018/2019): Interdisciplinary project work – Mensch-Maschine Systeme.

OTHER

Gräfe, H.-C. (Summer Semester 2019): Exercise in private commercial law, Lehrstuhl für Wirtschafts-, Unternehmens- und Technikrecht.

Gräfe, H.-C. (WiSe 2018/2019): Lecture – Einführung ins deutsche

Law and legal studies for foreign students, Faculty of Law Ruhr-University Bochum.

Herlo, B. (Winter Semester 2018/2019): Int. MA elective – Redesigning Exhibitions, Hochschule Anhalt, Dessau.

Porten-Cheé, P. (December 5, 2018): Guestlecture on cluster analysis, Hochschule Hannover.

Porten-Cheé, P. (December 11, 2018): Guest lecture "With or without the others: Political communication in times of disrupted public spheres", Royal University of Phnom Penh, Cambodia

Rehak, R. (Winter Seminar 2018/19): MA seminar – Medieninformatik und Gesellschaft, Hochschule Harz.

Ulbricht, L. (Summer Semester 2019): BA course
– Internationale Sicherheit im Spannungsfeld zwischen Freiheit und Sicherheit. Cyberkrieg, Cyberterrorismus und Predictive Policing, Hochschule für Wirtschaft und Recht Berlin.

Unteidig, A. (Summer Semester 2019): MA seminar – Designforschung. Hochschule für Bildende Künste Braunschweig.

Unteidig, A. (Summer Semester 2019): MA seminar – Wege zum Master. Hochschule für Bildende Künste Braunschweig.

Unteidig, A. (Summer Semester 2019): BA seminar – Grundlagen der Designtheorie und -geschichte. Hochschule für Bildende Künste Braunschweig.

Unteidig, A. (Summer Semester 2019): MA conceptual project – Un/Making Heimat. Hochschule für Bildende Künste Braunschweig.

Unteidig, A. (Summer Semester 2019): MA seminar – Vermitteln & Präsentieren. Hochschule für Bildende Künste Braunschweig.

Unteidig, A. (Winter Semester 2018/2019): MA seminar – Einführung in das Transformation Design. Hochschule für Bildende Künste Braunschweig.

unteidig, A. (Winter Semester 2018/2019): MA seminar – Einführung in das (design-) wissenschaftliche Arbeiten. Hochschule für Bildende Künste Braunschweig.

idig, A. (Winter Semester 2018/2019): MA seminar – Wege zum Master. Hochschule für Bildende Künste Braunschweig.

Unteidig, A. (Winter Semester 2018/2019): MA seminar – Designtheorie. Hochschule für Bildende Künste Braunschweig.

Unteidig, A. (Winter Semester 2018/2019): MA project – Digitopia. Hochschule für Bildende Künste Braunschweig.

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6.5 Fellows

THE FOLLOWING RESEARCH FELLOWS WERE GUESTS AT THE INSTITUTE DURING THE REPORTING PERIOD:

DR. JASON ALLEN

LLM Centre for British Studies,
Humboldt-Universität zu Berlin,
Research Group 17

PROF. MATHIEU D'AQUIN,
PH.D.

National University of Ireland
Galway (Ireland), Research
Group 11

DR. VINCENT AUGUST

Humboldt-Universität zu Berlin,
Research Group 12

DR. STEFAN BAACK

Alexander von Humboldt Institute
for Internet and Society Research
Group 18

DR. BETTINA BACHER

Universität Freiburg
(Switzerland) Research Group 4

PROF. W. LANCE BENNETT,
PH.D.

University of Washington (USA)
Research Group 15

PROF. PABLO J. BOCZKOWSKI,
PH.D.

Northwestern University (USA)
Research Group 13 und 18

DR. BALÁZS BODÓ

Universiteit van Amsterdam
(Netherlands) Research Group
17

DR. ALJOSCHA BURCHARDT

Deutsches Forschungszentrum für
Künstliche Intelligenz Research
Group 18

PROF. DAN L. BURK

University of California (USA)
Research Group 16

ANNI CARLSSON

Uppsala universitet (Sweden)
Research Group 16

PROF. CHRISTY MK CHEUNG,
PH.D.

Hong Kong Baptist University
(China)
Research Group 10

DR. MARIO DANIELS

Northwestern University (USA)
Research Group 8

ANDRÉS DOMINGUEZ

University of Edinburgh (UK)
Research Group 6

NIKOLINA DRAGICEVIC

Hong Kong Polytechnic University
(China)
Research Group 7

STEFANIA DRUGA

New York University, Rhode Island
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PROF. HERMANN ELENDNER,
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University College London (UK)
Research Group 17

PROF. NIVA ELKIN-KOREN,
PH.D.

University of Haifa (Israel)
Research Group 4

DR. ADAM FISH

Lancaster University (UK)
Research Group 6

DR. ZORAIDA FRÍAS

Universidad Politécnica de Madrid
(Spain)
Research Group 3

PROF. SANDRA
GONZÁLEZ-BAILÓN, PH.D.

University of Pennsylvania (USA)
Research Group 15

DR. JAAP-HENK HOEPMANN

Rijksuniversiteit Groningen
(Netherlands) Research Group
16 and 17

AGNES JÄNSCH

Artist and psychologist, Research Group
18

PROF. DR. FRANK KARGL

Universität Ulm Research
Group 17

DR. MAREILE KAUFMANN

Universitetet i Oslo (Norway) Research
Group 12 und 18

DR. HAGIT KEYSAR

Ben-Gurion University of the Negev
(Israel)
Research Group 8

DR. NETA KLIGLER-VILENCHIK

Hebrew University of Jerusalem
(Israel)
Research Group 13

MARIE LUISE KOCHSIEK

Heart of Code e. V. Research
Group 2

PROF. DANIEL KREISS, PH.D.

University of North Carolina (USA)
Research Group 18

KATIKA KÜHNREICH

Political scientist and
Sinologist, Research Group
18

DR. DAVID LANIUS

Karlsruher Institut für
Technologie Sinologist

PROF. DR. ANDERS LARSSON

Høyskolen Kristiania (Norway)
Research Group 14

ANDERS LIEN

Nord universitet (Norway)
Research Group 13

PROF. DR. MELINDA LOHMANN

Universität St. Gallen
(Switzerland) Research Group 6

DR. CHRISTIAAN MAASDORP

Universiteit Stellenbosch
(South Africa) Research
Group 7

PROF. DR. CHRISTIAN MATT

Universität Bern (Switzerland)
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STEFAN MEISSNER

Norges Handelshøyskole (Norway)
Research Group 9

DR. NORMA MÖLLERS

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ANNA-VERENA NOSTHOFF

Albert-Ludwigs-Universität
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EVA-MARIA NYCKEL

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PROF. DR. FABRICIO POLIDO

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– UFMG (Brazil)
Research Group 16

ROMAN PROSKALOVICH

Belarusian State University
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CHRISTOPH RAETZSCH

Aarhus University (Denmark)
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PROF. DR. MARTEN RISIUS

University of Queensland
(Australia) Research Group
9

DR. JULIA RONE

European University Institute
(Italy)
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TROELS RUNGE

IT-Universitetet i København
(Denmark)
Research Group 14

DR. RENA SCHWARTING

Berlin Social Science Center
(WZB) Research Group 18

CARSTEN SCHWEMMER

Otto-Friedrich-Universität Bamberg
Research Group 15

JOHANNES SONNENHOLZNER

Ruprecht-Karls-Universität
Heidelberg Research Group 1

DR. ISABEL STEINHARDT

Universität Kassel Research
Group 11

PROF. JAKOB SVENSSON, PH.D.

Uppsala universitet (Sweden) Research
Group 14

PROF. CHEE-WEE TAN, PH.D.

Copenhagen Business School
(Denmark) Research Group 9
and 10

PROF. MONIDEEPA TARAFDAR;
PH.D.

Lancaster University (UK)
Research Group 9 and 10

PROF. DR. OFIR TUREL, PH.D.

California State University (USA)
Research Group 10

FREYJA VAN DEN BOOM, LLM

Bournemouth University (UK)
Research Group 4 and 6

MAURICE VERGEER, PH.D.

Radboud Universiteit (Netherlands)
Research Group 14

MATT VIDAL, PH.D.

Loughborough University (UK)
Research Group 1

PROF. ARIADNE VROMEN, PH.D.

University of Sydney (Australia) Research Group
13

PD DR. EVA WEBER-GUSKAR

Georg-August-Universität Göttingen Research
Group 12 and 20

DR. ALEXANDER WEISS

Georg-August-Universität Göttingen Research
Group 12

DR. HELENA WENNINGER

Lancaster University (UK)
Research Group 9 and 10

DR. STEFANIE WUSCHITZ

Akademie der bildenden Künste Vienna
(Austria)
Research Group 2

PROF. MICHAEL A. XENOS,
PH.D.

University of Wisconsin-Madison
(USA)
Research Group 13

DR. WENGUANG YU

Renmin University of China (China) Research
Group 16

DR. NAFIYE YÜCEDAĞ

İstanbul Üniversitesi (Turkey) Research
Group 4

PROF. EM. JOHN ZYSMAN

University of California,
Berkeley (USA) Research
Group 5

6.6 Events

WEIZENBAUM MEETS

October 1, 2018	DR. ANDREAS WEIGEND FOUNDING MEMBER OF THE DIGITAL COUNCIL OF THE GERMAN CHANCELLOR	**PEOPLE FOR THE DATA**
October 24, 2018	BLAYNE HAGGART PH.D. BROCK UNIVERSITY (CANADA)	**FROM KNOWLEDGE FEUDALISM TO DIGITAL ECONOMIC NATIONALISM**
October 29, 2018	PROF. ANDREW CLEMENT UNIVERSITY OF TORONTO (CANADA)	**SMART CITY POLITICS – THE PROMISE AND PERILS OF GOOGLE'S TORONTO QUAYSIDE PROJECT**
November 8, 2018	CHRIS WELLS GEORGETOWN UNIVERSITY (USA)	**THE POLITICS OF ATTENTION: UNDERSTANDING THE CURRENCY OF THE HYBRID MEDIA SYSTEM**
December 10, 2018	JULIA RONE UNIVERSITY OF CAMBRIDGE (GREAT BRITAIN)	**THE SOURCES, TOPICS, AND NEWS SHARING PAT TERNS OF RADICAL RIGHT "ALTERNATIVE" MEDIA**
December 10, 2018	TROELS RUNGE IT UNIVERSITY OF COPENHAGEN	**TURNS, TWISTS, AND A NEW SET OF CHAINS: SO CIAL MEDIA AND POLITICS IN DENMARK**
December 12, 2018	DR. ALEXANDER WEISS HELMUT-SCHMIDT-UNIVERSITY / UNIVERSITÄT DER BUNDESWEHR HAMBURG	**DIGITALIZATION AND COMPARATIVE DEMOCRATIC THEORY: CHINESE AND INDIAN PERCEPTIONS OF THE DIGITAL CHALLENGE FOR DEMOCRACY**
December 13, 2018	PROF. DR. HANS-JÖRG KREOWSKI UNIVERSITY BREMEN	**WIE AUTONOM SIND SOGENANNTE AUTONOME WAF FENSYSTEME – EINE BEGRIFFSKRITIK**
February 12, 2019	PROF. DR. THOMAS BURRI UNIVERSITY ST. GALLEN (SWITZERLAND)	**THE ETHICAL GESTALT OF AUTONOMOUS SECURITY SYSTEMS**
February 21, 2019	PROF. HIDEYUKI TANAKA UNIVERSITY OF TOKYO (JAPAN)	**SDGS' INITIATIVE OF THE UNIVERSITY OF TOKYO**
February 28, 2019	TIM COLE INTERNET AUTHOR	**WILD WILD WEB – WAS UNS DIE GESCHICHTE DES WILDEN WESTENS ÜBER DIE ZUKUNFT DER DIGITALEN GESELLSCHAFT LEHRT**
March 11, 2019	DR. NINA AMELUNG UNIVERSITY OF MINHO (PORTUGAL)	**IMPLICATED PUBLICS IN TRANSNATIONAL BIOME TRIC DATABASE SYSTEMS**
March 26, 2019	MICHAEL KREIL DATA JOURNALIST	**GESELLSCHAFT AUS EINER DIGITALEN PERSPEKTIVE**
April 1, 2019	ANDREW SULLIVAN INTERNET SOCIETY	**BUILDING A STRONGER IGF - LESSONS FROM THE INTERNET WAY**

April 2, 2019	DR. MATTHIAS C. KETTEMANN, LL.M. (HARVARD) LEIBNIZ-INSTITUT FÜR MEDIENFORSCHUNG HANS-BREDOW-INSTITUTE	**DIE NORMATIVE ORDNUNG DES INTERNETS**
April 10, 2019	PROF. DR. WOLFGANG COY HUMBOLDT-UNIVERSITÄT ZU BERLIN (GERMANY)	**EIN GEFÜHL VOLLUMFÄNGLICHER SPRACHLOSIGKEIT – BUZZWORDS SOLLEN UNS IM NEULAND ORIENTIEREN**
April 30, 2019	PROF. DR. ANTÓNIO MONIZ AND DR. BETTINA-JOHANNA KRINGS KIT INSTITUT FÜR TECHNIKFOLGENABSCHÄTZUNG UND SYSTEMANALYSE	**SOCIAL CONDITIONS OF HUMAN-MACHINE INTERACTION: DECISION, CONTROL, QUALIFICATION**
May 20, 2019	DR. COLIN BENNETT UNIVERSITY OF VICTORIA (CANADA)	**THE ENCODED VOTER – DATA-DRIVEN ELECTIONS IN WESTERN DEMOCRACIES**
May 22, 2019	NATASHA TUSIKOV YORK UNIVERSITY (CANADA)	**CHOKEPOINTS: INTERNET PLATFORMS AS GLOBAL REGULATORS**
May 28, 2019	DR. PAT TREUSCH TECHNISCHE UNIVERSITÄT BERLIN	**ROBOTER-STRICKEN. EINE FEMINISTISCH-PERFORMATIVE INTERVENTION IN AUTOMATISIERUNGSPRAKTIKEN DER "ZUSAMMENARBEIT 4.0"**
June 11, 2019	DR. KLAUS ERLACH FRAUNHOFER INSTITUT FÜR PRODUKTIONSTECHNIK UND AUTOMATISIERUNG	**DIE INDUSTRIALISIERUNG DES PRIVATLEBENS. DIGITALISIERUNG UND EFFIZIENTE LEBENSFÜHRUNG**
June 18, 2019	LINCOLN DAHLBERG UNABHÄNGIGER WISSENSCHAFTLER	**FACEBOOK'S QUALITY INITIATIVES AND THE IDEOLOGICAL STAGING OF THE PUBLIC SPHERE**
July 2, 2019	JENS POHLMANN, PH.D. GEORGETOWN UNIVERSITY (USA)	**THE IT-BLOG SPHERE AND ITS IMPACT ON DIGITAL POLICY**
July 15, 2019	DR. YUN SUN SCIENTIST	**DATA ACTIVISM AND ENVIRONMENTAL CIVIC TECH IN CHINA**
July 17, 2019	ROMAN LIPSKI (ARTIST) AND FLORIAN DOHMANN (FOUNDERS BIRDS ON MARS GMBH)	**UNFINISHED – DIE KÜNSTLICH INTELLIGENTE MUSE**
August 19, 2019	PROF. CHRISTIAN GROTHOFF, PH.D. BERNER FACHHOCHSCHULE (SWITZERLAND)	**ELECTRONIC PAYMENT SYSTEMS AND EUROPEAN VALUES**
September 11, 2019	PROF. DR. GÜNTER KNIEPS ALBERT-LUDWIGS-UNIVERSITÄT FREIBURG I. BR.	**INTERNET OF THINGS AND THE ECONOMICS OF OPERATOR PLATFORMS FOR SMART NETWORKS**

WEIZENBAUM LECTURES

October 24, 2018	PROF. ARIADNE VROMEN, PH.D. UNIVERSITY OF SYDNEY (AUSTRALIA)	**CITIZEN POLITICS, DIGITAL PARTICIPATION AND STORYTELLING**
October 30, 2018	PROF. DR. FABRICIO POLIDO UFMG - UNIVERSIDADE FEDERAL DE MINAS GERAIS (BRAZIL)	**INTERNET AND DATA BETWEEN JURISDICTION AND INTERNATIONAL COOPERATION: LEGAL EXPERIMENTS IN BRAZIL AND BEYOND**
November 6, 2018	PROF. W. LANCE BENNETT, PH.D. UNIVERSITY OF WASHINGTON (USA)	**LOOKING LEFT AND RIGHT IN THE DIGITAL AGE – THREE CHALLENGES FOR DEMOCRACY**
February 14, 2019	PROF. DR. CHEE-WE TAN COPENHAGEN BUSINESS SCHOOL (DENMARK)	**BUSINESS ON CHAIN – A CASE STUDY OF FIVE BLOCKCHAIN-INSPIRED BUSINESS MODELS**
April 25, 2019	PROF. DR. FRANK KARGL UNIVERSITY ULM	**BIG DATA AND PRIVACY – CAN WE HAVE BOTH?**
May 9, 2019	PROF. MONIDEEPA TARAFDAR; PH.D. UNIVERSITY LANCASTER (GREAT BRITAIN)	**A PPRAISAL OF EMAIL USE AS A SOURCE OF WORKPLACE STRESS: A PERSON-ENVIRONMENT FIT APPROACH**
June 6, 2019	PROF. MICHAEL A. XENOS, PH.D. UNIVERSITY OF WISCONSIN-MADISON (USA)	**CHALLENGES OF FOSTERING HEALTHY POLITICAL ENGAGEMENT IN AN AGE OF SOCIAL MEDIA**
July 3, 2019	PROF. DR. PABLO BOCZKOWSKI NORTHWESTERN UNIVERSITY (USA)	**DEVALUING THE NEWS – HOW PEOPLE LEARN ABOUT CURRENT AFFAIRS IN A WORLD OF INFORMATION PLENTY**
July 11, 2019	SANDRA GONZÁLEZ-BAILÓN, PH.D. UNIVERSITY OF PENNSYLVANIA (USA)	**COMMUNICATION AND THE HIDDEN ARCHITECTURE OF COLLECTIVE BEHAVIOR**
August 16, 2019	PROF. MATHIEU D'AQUIN, PH.D. NATIONAL UNIVERSITY OF IRELAND GALWAY (IRLAND)	**IS KNOWLEDGE ENGINEERING STILL RELEVANT?**
August 28, 2019	PROF. NIVA ELKIN-KOREN UNIVERSITY OF HAIFA (ISRAEL)	**CONTESTING ALGORITHMS**

FELLOW TALKS

September 27, 2018	NIKOLINA DRAGICEVIC HONG KONG POLYTECHNIC UNIVERSITY (CHINA)	**CO-CREATION WITH BENEFICIARIES IN HONG KONG SOCIO-CULTURAL CONTEXT: A REPORT FROM TWO CASE STUDIES**
November 22, 2018	DR. ALJOSCHA BURCHARDT DEUTSCHES FORSCHUNGSZENTRUM FÜR KÜNSTLICHE INTELLIGENZ	**QUALITÄTSMETRIKEN KÜNSTLICHER INTELLIGENZ AM BEISPIEL MASCHINELLER ÜBERSETZUNG**
December 5, 2018	DR. PHOEBE V. MOORE UNIVERSITY OF LEICESTER (UK)	**SEARCHING FOR (ARTIFICIAL) INTELLIGENCE IN THE HISTORY OF WORK DESIGN**
December 17, 2018	DR. STEFAN BAACK MOZILLA	**IMAGINING DEMOCRACY THROUGH DATA: CIVIC TECH AS A PIONEER OF DATA ACTIVISM**
December 17, 2018	STEFANIA DRUGA FOUNDER OF AFRIMAKERS AND HACKIDEMIA	**READ, WRITE AND TINKER WITH AI**
January 9, 2019	FREYJA VAN DEN BOOM, LLM BOURNEMOUTH UNIVERSITY (UK)	**LEGAL AND ETHICAL ASPECTS OF BIG DATA AND VEHICLE-TO-EVERYTHING COMMUNICATIONS**
January 15, 2019	KATIKA KÜHNREICH INDEPENDENT SCIENTIST	**CHINESE SOCIAL CREDIT SYSTEMS AS EXAMPLES OF DIGITAL RATINGS**
January 23, 2019	PROF. DR. CHRISTIAN MATT UNIVERSITY OF BERN (SWITZERLAND)	**UNDERSTANDING INDIVIDUALS' PERCEPTIONS AND PROCESSING OF DIAGNOSTIC DEVICE ERRORS OF PERSONAL HEALTH IT**
January 28, 2019	PROF. JAKOB SVENSSON, PH.D. MALMÖ UNIVERSITY (SWEDEN)	**A QUALITATIVE STUDY OF THE TRANSITION TOWARDS AUTOMATION AND ALGORITHM-ASSISTANCE IN A LEADING SCANDINAVIAN DAILY**
March 22, 2019	ROMAN PROSKALOVICH BELARUSIAN STATE UNIVERSITY (BELARUSIA)	**STABLE CRYPTOCURRENCIES? STATE OF THE ART, RISKS, POTENTIAL**
March 27, 2019	DR. HAGIT KEYSAR SCIENTIST	**THE DIY TESTIMONY — NEGOTIATING THE PUBLIC FIELD OF AERIAL VISION**
April 24, 2019	TINA ASKANIUS MALMÖ UNIVERSITY (SWEDEN)	**ON FROGS, HOLOCAUST LOLS AND EXECUTION MEMES: EXPLORING THE HUMOR-HATE NEXUS AT THE INTERSECTION OF NEO-NAZI AND ALT-RIGHT MOVEMENTS IN SWEDEN**
April 24, 2019	CARSTEN SCHWEMMER UNIVERSITY OF BAMBERG	**POTENTIALS AND BIASES OF IMAGE RECOGNITION SERVICES FOR SOCIAL SCIENCE RESEARCH**

May 21, 2019	DR. CHRISTIAAN MAASDORP STELLENBOSCH UNIVERSITY (SOUTH AFRICA)	**DIGITALISATION AND TEMPORAL FOCUS**
May 29, 2019.	PROF. CHRISTY MK CHEUNG, PH.D. HONG KONG BAPTIST UNIVERSITY (CHINA)	**SOCIETAL IMPACTS OF ICT USE: UNDERSTANDING BYSTANDERS' RESPONSES TO ONLINE HARASSMENT**
May 23, 19	PROF. OFIR TUREL, PH.D. CALIFORNIA STATE UNIVERSITY (USA)	**CONSEQUENCES OF ABSTINENCE/DEPRIVATION FROM SOCIAL MEDIA USE – THREE STUDIES**
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