"EXPERTISE IN DIGITAL TRANSFORMATION"

Conference of the Research Group "Reorganization of Knowledge Practices" in cooperation with the DGS-Section "Science and Technology Studies"

May 23–24, 2024 at the Weizenbaum-Institute in Berlin

Conference information

What is expertise? Who owns it? And where does it originate from? These questions are not new but have become more pressing with the advent of digital transformation. Digitalization is becoming constantly more crucial in producing knowledge and generating expertise. Far beyond the automatization of existing standardized and coordinated procedures, numerous digital applications are increasingly generating information that directly influence social and academic knowledge production and decision-making.

Present debates, particularly those about generative AI such as ChatGPT, highlight significant tensions: At what point do digital tools cease to support knowledge creation and begin to fundamentally influence or replace traditional practices of knowledge production and human expertise? While AI has presented numerous opportunities for the generation of expertise, concerns arise over the quality and validity of the knowledge produced.

With this conference, we thus aim to explore questions of expertise in digital transformation both with regard to different areas of society and to discuss them comparatively:

- What is the impact of the use of digital applications in knowledge-based areas of work, ranging from industry to administration, but also in the judicial system or science?

- How does digitalization change expertise and also experts themselves?

- How are practices of knowledge production transformed and what do we regard as expertise?

- How do the processes outlined above shape collective perceptions of the social reality?

Conference Venue

Conference venue

The conference will take place on the premises of the Weizenbaum Institute: Hardenbergstraße 32, 10623 Berlin. The best way to reach the institute is by subway (U-Bahn) or urban railway (S-Bahn) from the train station "Zoologischer Garten". The S-Bahn lines S3, S5, S7 and S9 run from Berlin central station, "Ostbahnhof" and "Ostkreuz" to "Zoologischer Garten".

Registration

Please register for the conference by 15 May at the following link:

https://www.weizenbaum-institut.de/veranstaltungen/detailseite/expertise-in-digitaler-transformation/

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DGS SEKTION WISSENSCHAFTS- UND TECHNIKFORSCHUNG

09:00 Uhr PhD Colloqium (Seminarraum)
until 12.00am; followed by a lunch snack

13:00 **Welcome**

13.30 **Sessions**

Algorithmic expertise (Kassenraum)

Maximilian Heimstädt & Cornelius Heimstädt
Algorithmic expertise and its clients: Calibrating advice in the back office of an agricultural extension app

Daniel Schneiß, Martin Krzywdzinski & Andrea Sperling
Between control and participation: The politics of algorithmic management

Max Leckert & Stella Köchling
The Platformization of Expertise and the Ambiguous Worth of Altmetrics

Human vs. technical expertise (Seminarraum)

Cornelius Schubert & Ann Kristin Augst
Transformation medizinischer Wissenshierarchien? Ärzt:in-Patient:in-Beziehungen in Zeiten zunehmender Digitalisierung und Popularisierung

Fabian Annicker
KI-Systeme als „sozialisierte Maschinen" – Überlegung zur Aneignung von Kompetenzen und Expertise durch KI an den Beispielen Schach und medizinische Bilddiagnostik

Dominik Hofmann
Ärztliche Expertise, wissenschaftliche Evidenz, algorithmische Präzision: Ihre Konzertation in Molekularen Tumor Boards

15:00 **Coffee Break**

15:30 **Sessions**

Digital expertise in professions I (Kassenraum)

Yana Boeva
Situational Expertise as Boundary Work in the Digital Transformation of Architecture

Florian Irgmaier & Clara Iglesias Keller
The legal construction of digital harms: The role of expertise in making digitali-zation matter to the law

Expertise in organizations (Seminarraum)

René Werner
Organisationales Wissen und Künstliche Intelligenz – Zur Wechselwirkung von Wissen, Praktiken und Technologie bei der Kostenerstattung in Krankenversicherungen

Mario Ottaiano
Wissen outsourcen und neu aneignen? Aushandlungsprozesse um die organisationale Lokalisierung von Wissen und Expertise

16:30 **Coffee Break**

17.00 *Keynote*
Cristina Alaimo *(LUISS Guido Carli University, Rome)*
Data Rules: Reinventing the Market Economy
Kassenraum

18:30 *Reception*
20.00 *Diner for the presenter (self-pay) // Location tba*

09:00 **Welcome and Coffee**

09:30 **Sessions**

Digital expertise in professions II (Kassenraum)

Jan Zöllick
Artificial intelligence in melanoma diagnosis: Shifting expertise in digital transformation

Agustina Andreolotti
Transcontinental Techno-Accessibility: Collaborative Digitisation of Colonial Heritage

User expertice (Seminarraum)

Daniel Guagnin
Transparenz und Kontrolle von KI: Welche Expertise brauchen User und wer sind die User?

Johannes Hiebl
Die Darstellung offener Bildungsressourcen durch digitale Medien

10:30 **Coffee Break**

11:00 **Sessions**

Attributions of expertise (Kassenraum)

Jan-Felix Schrape
Expertise und Systemvertrauen in der digitalisierten Gesellschaft

Stefanie Büchner
Problematische Expertisen und Problemexpertisen – Problem-Lösungs-Arrangements in der digitalen Transformation

Vanessa Müller, Patrick Schenk & Gabriel Abend
The Acceptance of AIs as Moral Decision-Makers: Evidence from a Nationwide Factorial Survey in Switzerland

Professions in digital transformation (Seminarraum)

Alina Wandelt
Vom ‚dienstfertigen Gelehrten' zum ‚entre-peneurial changemaker' – Die Refiguration von Expertise in Bibliotheken in Zeiten der Digitalisierung

Phillip Roth
Digital Information Systems and the Formation of Expert Communities in HighEnergy Physics

Angela Graf & Klarissa Lueg
Technische Professionen in der digitalen Transformation – (Neu-)Aushandlungen von Expertise, Identität und Professionsgrenzen

12:30 **Lunch Break**

14:00 Book presentation (in cooperation with the research group Data, Algorithmic Systems and Ethics at the Weizenbaum Institute)
Juliane Jarke, Bianca Prietl, Simon Egbert, Yana Boeva, Hendrik Heuer, Maike Arnold
Algorithmic Regimes: Methods, Interactions, and Politics
Kassenraum

15:30 **End of the coference**

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GEFÖRDERT VOM
Bundesministerium für Bildung und Forschung