Online-Conference

"Open Science and Replicability in the Age of AI and Public Skepticism toward Science"

of the MethodenKompetenzZentrum, Faculty of Behavioural and Social Sciences, Chemnitz University of Technology

Location: virtual conference, hosted by Chemnitz University of Technology

Date: 4th to 5th March 2027

Organization: MethodenKompetenzZentrum, Prof. Dr. Jochen Mayerl, Prof. Dr. Anja Strobel, Prof. Dr. Frank Asbrock

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Website: https://www.tu-chemnitz.de/hsw/mkz/OpenScienceCon.php#open_science_2027

Call for Papers

For the second time, the Faculty of Behavioural and Social Sciences at the Chemnitz University of Technology is hosting an interdisciplinary online conference on Open Science in the Behavioural and Social Sciences. The two-day conference is dedicated to the increasing importance of Open Science. The conference is intended as a forum to discuss the question: **How can open science shape a trustworthy and reproducible research culture in the age of AI, and how should science respond to the opportunities and challenges posed by artificial intelligence and growing public skepticism toward science?**

Open science and replicability have become central to debates about the credibility, transparency, and societal relevance of behavioural and social science. Preregistration, registered reports, open data and materials, transparent reporting, and improved research assessment are intended to strengthen the reliability of scientific knowledge. At the same time, the rapid development of artificial intelligence is transforming all stages of the research process, including study design, data collection, statistical analysis, scientific writing, peer review, and public communication.

These developments create both opportunities and challenges. AI-based tools may support more efficient analyses, improve documentation, facilitate replication, and increase access to scientific knowledge. However, they may also introduce new forms of opacity, bias, automation error, fabricated or unverifiable content, and uncertainty about authorship and responsibility. The use of generative AI further raises questions about research integrity, data protection, intellectual property, and the reproducibility of AI-assisted workflows.

These issues are particularly important in a context of growing public skepticism toward science. Replication failures, questionable research practices, politicised scientific debates,

and the rapid circulation of misleading information can undermine trust in scientific institutions. At the same time, open science practices can contribute to greater transparency and accountability when scientific disagreement and uncertainty are communicated responsibly.

This conference will explore how open science and replicability can contribute to trustworthy behavioural and social science in the age of AI. It will bring together researchers, practitioners, students, editors, research administrators, and other stakeholders to discuss methodological, ethical, institutional, and societal perspectives.

Possible Contributions:
We **invite contributions** addressing, among other topics, replication and reproducibility; preregistration and registered reports; open data, code, and materials; AI-assisted research; generative AI and research integrity; transparency and accountability; bias and fairness; research assessment and publication practices; public communication and trust; and the implementation of open science across different methods and research contexts.

The conference welcomes **empirical**, **theoretical**, **methodological or concrete practical ways** to implement Open Science. A particular emphasis will be placed on constructive exchange about how researchers and institutions can promote transparent, reproducible, and socially responsible science while acknowledging the limitations and unintended consequences of both open science and artificial intelligence.

We welcome submissions in form of **classic conference presentations, scientific posters** (for a virtual poster session via gather.town), or **short thesis papers for workshop discussions** (e.g., practical or technical implementation of Open Science; advantages and disadvantages of Open Science practices).

We invite scholars from across the spectrum of empirical behavioural and social sciences to submit their papers.

We look forward to receiving submissions by Friday, 15th January 2027. Please send your **abstracts** (max. 300 words) to **methodenkompetenzzentrum@hsw.tu-chemnitz.de** and indicate whether your submission is a **talk**, **poster**, **or workshop discussion**.

We look forward to your submission,

Prof. Dr. Jochen Mayerl, Prof. Dr. Anja Strobel, and Prof. Dr. Frank Asbrock

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