Digitalization and AI for and in Education and Educational Research (DAI-EaR'24)

Workshop at Informatik Festival 2024, Wiesbaden, 24th-26th September 2024

Aims & Scope

In the pursuit of regaining digital sovereignty, a critical political and societal goal in our contemporary landscape marked by pandemics, geopolitical tensions, and virtual security risks, the nexus of computing education and digital literacy emerges as central. This integrated call for workshops addresses the transformative power of computational methods, including AI, not only in education, but also in society and labor markets. Expanding on skills and qualifications for the design of digitalized futures, this call seeks interdisciplinary insights into computer science, computational studies in the social sciences, economics, and humanities, and the profound impact of computational methods on digital sovereignty, societal structures, and the evolving demands of labor markets.

Call for Papers

This workshop aims to comprehensively explore the intersection of computer science, computational methods, education research, sociological research, their respective methods and societal implications, with a special focus on digitalization and AI for and in education and educational research. It delves into interdisciplinary perspectives on the design of digitalized futures, examining aspects such as general education, labor markets, qualifications, vocational education and training, and adult education. In addition, the workshop encourages submissions that critically reflect on the application of digital methods in these research areas. The overarching goal is to understand how computational methods, especially AI, can be sensibly applied in the development of digital and sustainable societies and economies. Emphasis is placed on both quantitative and qualitative research, including data science methods and AI approaches applicable to recommender systems, digitized learning, and effective linking of digital resources.

Topics of interest include, but are not limited to:

- Quantitative and qualitative research
- Data science methods to analyse (vocational) education and labour market data
- Digital methods and systems in education (e-learning, adult education, general, VET and academic education, etc.)
- AI approaches for recommender systems and digitalized learning
- Linking of digital resources, a discussion of data sets, their quality and reliability, combining quantitative and qualitative data, anonymization and data protection
- We also welcome submissions focusing on a critical reflection of digital methods in labour market research, education and other research areas.

Submission

The hybrid workshop will consist of paper and poster presentations. Selected papers will be published in „GI-Edition: Lecture Notes in Informatics" (LNI). Submissions (5-12 pages for full paper, 2 pages plus references for poster presentation) must be written in English and follow the guidelines published at https://informatik2024.gi.de/ and https://gi.de/service/pulikationen/lni.

If you are unsure whether your contribution fits the workshop theme, you can submit a short abstract (max 250 words) outlining your idea and approach in advance to receive our brief feedback. You can submit a full paper without a prior abstract and a positive feedback does not automatically mean that your full paper will be accepted. All full paper and poster submissions will be subject to our review process.

Please submit your contributions by email to dai-ear@bibb.de

Important Dates

31.03.2024 – [Optional] Submission Deadline for abstracts (max 250 words)
15.05.2024 – Submission Deadline for full papers/posters
15.06.2024 – Cancellation/Acceptance note with reviewer feedback
07.07.2024 – Deadline Proceedings/Full Paper Submission after revision

Workshop Organiser

- Dr. Jens Dörpinghaus, BIBB & University of Koblenz, jens.doerpinghaus@bibb.de
- Dr. Michael Tiemann, BIBB & University of Bonn, tiemann@bibb.de
- Stefan Udelhofen, BIBB, stefan.udelhofen@bibb.de

Program Committee

- Kristine Hein, BIBB
- Kai Krüger, BIBB
- Marco Seegers, BIBB
- Mortimer Schlieker, BIBB
- Stefan Winnige, BIBB

More information will be posted later.