

Bonn Melbourne Seminar in Decision Making and Computational Psychiatry

“Metacognitions in Human-AI Interaction”

Prof Ekaterina Jussupow (Department of Law and Economics, Technical University Darmstadt, Germany)

Abstract

As artificial intelligence (AI) performs increasingly complex cognitive tasks, human decision-makers must closely collaborate with AI to monitor, interpret, evaluate, and refine its results (augmented decision-making). However, although AI systems reduce cognitive demand for human decision-makers, they can cause additional metacognitive demands. In augmented decision-making, humans now must accurately monitor their own cognitive processes and, in parallel, develop a mental model of the capabilities of the AI. These metacognitive assessments help them decide whether to follow the AI suggestion or remain with their judgments. In this talk, I will discuss the role of metacognitive accuracy in human-AI collaboration, drawing from quantitative survey data as well as qualitative think-aloud protocol and interview data from a large-scale experiment on medical decision-making.

Thursday, 13th June 2024, 9am (CEST)

<https://uni-bonn.zoom.us/j/67862809703?pwd=WHM3b3lIUeFJY2x0ekxLZUhXS3UvUT09>

Meeting-ID: 678 6280 9703, Code: 193789

Contact

Prof Ulrich Ettinger, Department of Psychology, University of Bonn, Germany; ulrich.ettinger@uni-bonn.de

Prof Carsten Murawski, Department of Finance, The University of Melbourne, Australia;
carstenm@unimelb.edu.au

#BonnMelbourneDecisionSeminar