

Interdisciplinary Perspectives on Neuroenhancement: Current Developments and Impact on the Individual and Society

Conference Date: December 10-12, 2024


Location: Bielefeld University, Center for Interdisciplinary Research, ZiF), Bielefeld, Germany → [LINK WITH TRAVEL INFORMATION](#)

Funding: Fritz Thyssen Foundation
Center for Interdisciplinary Research, ZiF

Organizers:

- Dr. Sebastian Sattler (Faculty of Sociology, Bielefeld University, GER)
- Prof. Dr. Saskia Nagel (Department for Society, Technology, and Human Factors, RWTH Aachen University, GER)
- Dr. Dimitris Repantis (Department of Psychiatry and Neurosciences, Charité Berlin, GER)
- Prof. Dr. Guido Mehlkop (Faculty of Economics, Law and Social Sciences; Institute for Planetary Health Behaviour, University of Erfurt, GER)

Day 1

13:00-14:00	Optional lunch at the ZiF (Costs are covered by the conference.)
14:00-14:30	Opening of the conference by the organizers
14:30-15:30	1st Keynote speech (session chair: Guido Mehlkop) Caterina Cinel: <i>"Neurotechnologies for Cognitive Augmentation"</i>  LINK FOR LIVE VIEW OF THE SPEECH
15:30-16:00	Break
16:00-17:40	1st Session (session chair: Suzanne Wood) <ul style="list-style-type: none"> • Brandon J. King, Gemma J. M. Read, Jason Thompson & Paul M. Salmon: <i>"A Systems Human Factors and Ergonomics Perspective on Advanced Invasive Brain-Computer Interface Risks and Mitigation Strategies"</i> • Steven Peppers & Veljko Dubljevic: <i>"Stimulant Medications, Their Potential for Cognitive Enhancement, and the Ethical Implications for Human Autonomy"</i> • Eric Racine: <i>"Cognitive enhancement: Reframing ethical questions from the perspective of the theory of deliberative wisdom"</i> • Ian S. Peebles: <i>"Race, well-being, and (enhancements of) cognition"</i>
17:40-18:00	Break
18:00-19:40	2nd Session (session chair: Fabian Hasselhorn) <ul style="list-style-type: none"> • Cynthia Forlini: <i>"Examining the bottleneck of empirical data in the ethics of cognitive enhancement"</i> • Rachel Teodorini, Nicky Rycroft & James Smith-Spark: <i>"Perceived cognitive performance in off-prescription users of modafinil and methylphenidate: an online survey"</i> • Felix A. Ebel, Sebastian Sattler & Eric Racine: <i>"Investigating the relation between illicit substance use, free will attributions, and moral judgments"</i> • Floris van Veen, Sebastian Sattler: <i>"The effects of neutralization tendencies on risk perceptions regarding the use of prescription drugs to enhance cognitive performance"</i>
19:45	Dinner at ZiF (Costs are covered by the conference)

Day 2

09:00-10:00	2nd Keynote speech (session chair: Dimitris Repantis) Stefan Lorenz Sorgner: “Who Owns the Digital Data Generated by BCIs?”  LINK FOR LIVE VIEW OF THE SPEECH
10:00-10:30	Break
10:30-12:10	3rd Session (session chair: Floris van Veen) <ul style="list-style-type: none"> David M. Lyreskog, Brian D. Earp, Haiou Zhu, Hazem Zohny, Julian Savulescu & Ilina Singh: “‘Collective Minds’ as Cognitive Enhancement – Conceptual and Ethical Considerations” Sanyogita (Sanya) Ram: “Use of cognitive enhancers in academic settings” Fabian Hasselhorn: “Moral Conflict and Self-Control: Predicting Illicit Prescription Drug Use with Situational Action Theory” Margit Anne Petersen, Suzanne Wood, Guido Mehlkop, Fiona Seiffert & Sebastian Sattler: “Prevalence and demographic indicators of psychedelic use in Germany”
12:10-13:10	Lunch break at the ZiF (Costs are covered by the conference.)
13:10-14:00	1st Science walk and talk to prepare a joint paper
14:00-14:30	Break
14:30-15:30	3rd Keynote (session chair: Saskia Nagel) Anna Wexler: “Navigating the Future of Cognitive Enhancement Technologies”  LINK FOR LIVE VIEW OF THE SPEECH
15:30-15:45	Break
15:45-17:25	4th Session (session chair: Katerina Sideri) <ul style="list-style-type: none"> Leonie C. Steckermeier, Christian Schneickert, Jan Delhey & Sebastian Sattler: “The Effect of Status Seeking on Cognitive Enhancement and the Moderating Role of Status Anxiety and Competitive Working Climate” Mareike Reimann, Myriam Baum, Nina Hänel & Sebastian Sattler: “Applying the Job Demands-Resources Model to Understand the Non-Medical Use of Prescription Drugs for Performance Enhancement” Guido Mehlkop, Constanze Rossmann, Sebastian Sattler & Fiona Seiffert: “The Influence of Online Information on the Assessment of Pharmaceutical Cognitive Enhancement: A Study on Base-rate Information, User Comments, Likes, and Pre-existing Attitudes” Franziska Pradel & Sebastian Sattler: “Investigating the Effect of Different Types of Online Information about Cognitive Enhancement in Online Searches on Information Behavior and Regulatory Preferences”
17:25-17:40	Break
17:40-18:15	2nd Science walk and talk to prepare a joint paper
19:30	Dinner at Bernstein (Costs are <i>partially</i> covered by the conference.) ➔ LINK TO LOCATION

Day 3

09:00-10:00	4th Keynote speech (session chair: Sebastian Sattler) Ty Schepis: <i>“Understanding the Prevalence and Outcomes of Real-World Cognitive Enhancement”</i>  LINK FOR LIVE VIEW OF THE SPEECH
10:00-10:20	Break
10:20-11:50	Short talks followed by a poster session (session chair: Cynthia Forlini) <ul style="list-style-type: none">• Floris van Veen, Fabian Hasselhorn, Guido Mehlkop, Uwe Fuhr, Lobna El Tabei & Sebastian Sattler: <i>“Prevalence of Legal, Prescription, and Illegal Drugs Aiming at Cognitive Enhancement Across Sociodemographic Groups in Germany”</i>• Niklas A. Döbler & Claus-Christian Carbon: <i>“Why the mind? - Understanding why cognitive enhancement is so tempting”</i>• Łukasz Kamiński: <i>“The AI-neuro convergence for super soldiers: promises and challenges of closed-loop brain-computer interfaces”</i>• Yoann Della Croce: <i>“Outline of a Theory of Neurocitizenship and its Relevance for the Ethics of Cognitive Enhancement”</i>• Sadia Shakeel & Wajiha Iffat: <i>“Ethical considerations of using smart drugs: Exploring the skepticism of Healthcare professionals in Pakistan”</i>• Katerina Sideri: <i>“Electric medicine and the meaning of therapy: Socio-technical imaginaries of AI-driven brain augmentation”</i>• Alexander Neuhaus, Sebastian Sattler, Guido Mehlkop, Peter Reiner & Anna Wexler: <i>“Exploring the Disparities in Knowledge about Neurotechnology in Germany”</i>• Nicole Lühring: <i>“Disembodied bodies? On the social-transformative capability of neuroheadset technology”</i>
11:50-12:05	Break
12:05-12:35	Discuss and document take-aways from the science walks for preparing the joint paper
12:35-13:00	Discussion and closing: Summary, best paper award, and outlook
13:00-14:00	Optional lunch at the ZiF (Costs are covered by the conference.)

We are looking forward to your abstracts and to an informative conference!

The ENHANCE-team

The conference is supported by:



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