Integrating ChatGPT into Your Research Workflow

Workshop by Prof. Dr. Michael Kipp

WHEN/WHERE
24th of January 2025
(9 am –5 pm)
Venue: Room "Patscherkofel"
Fritz-Pregl-Str. 3, 8th floor
6020 Innsbruck

REGISTRATION
Email: sc-forschung@i-med.ac.at
Free of charge
Workshop in English
Limited to 15 participants!

Artificial Intelligence is rapidly becoming a key tool in many aspects of life and work. Researchers can benefit from AI tools, specifically Large Language Models (LLMs) like ChatGPT, by facilitating tasks that have previously been deemed typical human-level tasks like writing coherent text. While some may think that this endangers the role of the human researcher it can be not only very productive but also liberating to de-couple the actual intellectual research achievements (key ideas, empirical work, interpretation & argumentation, embedding in the research field) from more superficial tasks like text production, summarization or even first analyses. This workshop gives participants a basic understanding of the underlying technology (including limitation, pitfalls and ethical aspects), points out possible ways of integrating LLMs into your workflow and engages all participating researchers in practical activities to develop not only own ideas and strategies but most of all to come to a mindset where tools like ChatGPT are seen as assistants and sparring partners for more productive research.

OBJECTIVES

➢ Fundamental underlying principles of AI and LLMs: How it all works, potentials and limitation, and what it means for users (aimed at non-technical people)

➢ Key elements of designing effective prompts and current "prompt engineering" techniques like chain-of-thought and tree-of-thoughts

➢ Thoughts on ethical and data protection issues related to LLM-supported research

➢ Hands-on sessions with ChatGPT to develop ideas and strategies for your own research workflow and exchange these with the group

➢ A brief look at a selected range of AI tools, both general-purpose and research-related

➢ Looking into the future of AI and LLM developments

Michael Kipp is professor for computer science at the Augsburg Technical University of Applied Sciences, Germany. He teaches the programming fundamental, human-computer interaction (HCI) and artificial intelligence (AI), specifically neural networks and deep learning. He is also the director of the Center for Didactics and Media which supports university staff and lecturers to advance their teaching skills. His academic research includes the fields of HCI and AI. He has co-authored 80+ peer-reviewed research publications, three have been awarded with a best paper award. Before his position at Augsburg, he was senior researcher at the German Research Center for Artificial Intelligence (DFKI), Saarbrücken, and head of a junior research group at the Cluster of Excellence in Multimodal Computing and Interaction at Saarland University.