AI-assisted Research: How and why (not) to use AI in your Research Workflow

Basic Information

Where: University of Zagreb Faculty of Organization and Informatics

When: 16 Jan 2026

Duration: 45 minutes

Who: PhD students of the PhD study programme *Information Sciences*

Abstract

The possibilities related to the use of artificial intelligence (AI) have been rapidly increasing ever since ChatGPT became publicly available in November 2022. Today, AI is transforming how we approach research more than ever before. However, using AI in research is not without its challenges. This talk will explore practical applications of AI in the research workflow, from literature discovery and synthesis, over data analysis and visualisation, to drafting and refining manuscripts. Limitations of the currently available models will be examined as well, including hallucinations, bias, and the absence of genuine reasoning. Ultimately, addressing ethical considerations and the importance of academic rigour, this talk aims to help young researchers integrate AI responsibly into their research workflow, ensuring it serves as a tool for enhancing rather than replacing critical thought.

Speaker

Bogdan Okreša Đurić (CV) is an Assistant Professor at the University of Zagreb Faculty of Organization and Informatics, a member of the Artificial Intelligence Laboratory at the Faculty, who participates in teaching the following courses in Croatian or English, at Bachelor's, Master's: Introduction to Computer Games, Computer Game Development Platforms, Introduction to Artificial Intelligence, Declarative Programming, Database Theory, Multiagent Systems, Internet Security, and some courses on postgraduate level.

His scientific interests can be found in: multiagent systems, artificial intelligence, video games, gamification, semantic and conceptual modelling.

Since the beginning of his Master's studies, he has been active in international activities and promoting international relations; he was an Erasmus student at Karl-Franzens University of Graz (AT), an Erasmus intern at Jožef Stefan Institute in Ljubljana (SI), an Erasmus+ intern at Elettra Sincrotrone in Trieste (IT), he spent some time on a research visit to Universitat Politècnica de València in Valencia (ES) during his PhD studies, he participated in an ITEC course at the Centre for Development of Advanced Computing in Noida (IN), and he was awarded a long-term research visit to the Valencian Research Institute for Artificial Intelligence, Universitat Politècnica de València in Valencia (ES).

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