

Invited Lecture

Topic: Exploring Applications, Ethics, and the Future of Large Language Models and General Artificial Intelligence

Dates of the event: 19 October 2023

Venue: University of Exeter (online)

Host: Sanja Vico

Lecturer: Ljubiša Bojić, Senior Research Associate, Research and Development Institute for Artificial Intelligence, Serbia and the Institute of Philosophy and Social Theory, University of Belgrade, Coordinator of Digital Society Laboratory

Abstract: This lecture explores the domain of Large Language Models (LLM), explaining their unique abilities in creativity, multimodal use, simulation, and more. It also reflects on potential misuse, their impact on smaller languages, and the often overlooked influence they might have on global social values. The discussion will be enriched with comprehensive scientific research and analyses, providing a multidimensional and detailed understanding of this sophisticated technology, the challenges it brings, and future potential applications.

Keywords: large language models, creativity, multimodal usage, simulation, small languages, social values, misuse, technological future

Topics that will be covered in the lecture:

Introduction to Large Language Models

- Definition of large language models
- Understanding their primary function and abilities
- Evolution and progress of LLM in machine learning

Creativity and Simulations in LLM

- LLM as a creative tool
- Examples of creative use in various fields
- Use of LLM in simulating conversations and situations

LLM and the advent of multimodal technologies

- Definition and role of multimodal technologies
- Integration of LLM and multimodal technologies
- Future prospects in multimodal technologies with LLM

Social Aspects of LLM: Values and Biases

- Understanding inherent biases in LLM
- Impact of these biases on global social values
- Role of LLMs in creating and spreading values
- Impact of LLM on smaller languages

Potential misuse of LLM

- Identifying potential areas of misuse
- Implications for spreading disinformation, privacy, accuracy, and ethical considerations
- Methods for control and prevention

Future Landscape of LLM

- Future technological advances in the field of LLM
- Global impact of LLM
- Strategies for responsible use and adhering to ethical standards

Conclusion and Discussion

- Key points from the lecture
- Concluding thoughts on the future of LLM
- Space for open discussion and student questions

All information presented in the lecture is the result of extensive research and is subject to academic integrity standards.