

Information technologies for countering academic fraud: An overview

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Abstract:

Academic fraud poses a significant challenge to the trustworthiness of education and research, particularly in the context of rapidly evolving digital technologies. This lecture provides an overview of information technologies used to counter academic misconduct, including plagiarism detection, contract cheating identification, and authorship verification. Special attention is given to the detection of AI-generated text, its current limitations, and the risks associated with overreliance on automated tools. The lecture argues that while technological solutions can act as important deterrents, they must be complemented by pedagogical strategies, careful assessment design, and the cultivation of a culture of academic integrity.

Bio:

Dr. Tomáš Foltýnek is an assistant professor at the Department of Machine Learning and Data Processing at the Faculty of Informatics and a member of the Ethical Committee for Research at Masaryk University, Czechia. He is President of the Board of the European Network for Academic Integrity. He is also a vice-chair of the Bureau of the Council of Europe's Pan-European Platform for Ethics, Transparency, and Integrity in Education (ETINED), and a head of the Working Committee on Ethics in Scientific and Pedagogical Work within the Council of Higher Education Institutions in Czechia. His research activities involved plagiarism detection and prevention, academic integrity policies and ethical use of artificial intelligence in education. He has led several national and international projects on academic integrity, namely plagiarism prevention. Since 2013 he has been organising conferences on this topic. He is a certified VIRT2UE research integrity trainer.