

Superintelligence is coming - how and when?

The rapid progress in artificial intelligence and large language models (LLMs) indicates that the rise of superintelligence may not be far off – potentially arriving within the next few years. Inspired by futurist Ray Kurzweil's predictions, this talk explores how AI is shaping the trajectory of a new phase in human civilization. There are going to be tectonic changes - advancements in human society. Despite the powerful capabilities of existing AI tools, society's ability to adapt remains comparatively sluggish.

The lecture will highlight key sectors experiencing major improvements due to AI integration, such as education, healthcare, and public administration, and will feature real-world implementations already in use. One such example is HomeDOCTOR, a Slovenian AI-based virtual physician, operating continuously and exhibiting reasoning capabilities comparable to an IQ of 150.

About the speaker

Dr. Matjaž Gams leads the Department of Intelligent Systems (Agent Group) at the Jožef Stefan Institute and holds teaching positions in computer science at several Slovenian universities, including the University of Ljubljana, MPS, Alma Mater Europaea, and the University of Novo Mesto. His pedagogical reach spans 14 faculties across Slovenia and Germany, with academic interests ranging from cognitive systems and AI to health technologies, business analytics, and the societal impact of superintelligence.

He has served on the editorial boards of 12 scientific journals and is the

Executive Editor of the well-established Informatica journal. For nearly a quarter of a century, he has also been actively involved in organizing the IS Conference, where the prestigious Michie-Turing Award is conferred. Additionally, he co-authored the English-Slovene computer science dictionary, published in more than 50,000 copies.

Nationally, Dr. Gams is a member of Slovenia's National Academy of Engineering and has been honored in the national Hall of Fame for computer scientists. From 2017 to 2022, he served as a science advisor in Slovenia's upper parliamentary chamber, helping shape modern science policy. He is also active at the municipal level and has held leadership roles in professional organizations, including president of the research conference and vice-president of the 40,000-member SVIZ union. He has represented Slovenia in multiple global scientific bodies, including ACM, EurAI, and IFIP.