LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

AI@LMU Newsletter

NEWS AND EVENTS FROM THE VARIOUS GROUPS RESEARCHING AI AND ITS APPLICATIONS AT LMU MUNICH

FEBRUARY 2025

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Latest updates

New Events

AI-HUB@LMU Grand Opening

The Grand Opening of the AI-HUB@LMU was a resounding success, drawing over 700 participants to the Große Aula of Ludwig-Maximilians-Universität München. The event featured distinguished speakers, including among many others Bavarian State-Minister for Digital Affairs Dr. Fabian Mehring, who highlighted Bavaria's digital future, and Vice President for Internationalization and Diversity Prof. Dr. Francesca Biagini, who emphasized the initiative's cross-faculty collaboration. Additional insights were shared by Prof. Dr. Dr. Fabian Theis, Chairman of the Bavarian AI Council, and Prof. Dr. Armin Nassehi, Chairman of the Board of University Representatives, and representatives from each of 18 LMU faculties sharing insights into their AI research. The AI-HUB@LMU, rooted in the Hightech Agenda Bavaria, aims to foster interdisciplinary AI research, education, and innovation across all parts of LMU.

Read more here

Helping companies implement the EU's AI Act

To support businesses in meeting the requirements of the EU's new AI Act, researchers from LMU, TUM, and UTN are developing automated verification tools as part of the Bavarian AI Act Accelerator. Led scientifically by Prof. Dr. Gitta Kutyniok and funded by the Bavarian Ministry for Digital Affairs, the project—implemented by the appliedAI Institute for Europe—aims to simplify compliance, particularly for SMEs and start-ups, through research-driven solutions for risk assessment, documentation, and regulatory adherence.

Read more here

Data scarcity and AI solutions: Social research in new ways

LMU researchers including sociologist Prof. Dr. Katrin Auspurg, statistician Prof. Dr. Frauke Kreuter, and political scientist Prof. Dr. Alexander Wuttke are tackling the growing scarcity and bias in traditional social science data by exploring new digital and AI-based methods. Their work examines how technologies like large language models, digital footprints, and data donations can enhance data quality, enrich research findings, and help address real-world challenges such as democracy trends, health behaviors, and gaps in social policy.

Read more here

Artificial intelligence improves personalized cancer treatment

Univ.-Prof. Dr. med. Frederick Klauschen, Director of LMU's Institute of Pathology, along with researchers from the University of Duisburg-Essen and TU Berlin, developed an AI model that merges extensive clinical, lab, imaging, and genetic tumor data from over 15,000 patients across 38 solid tumors. The system uses explainable AI to pinpoint and weight 350 relevant parameters for predicting outcomes, and was successfully validated in 3,000 lung cancer cases—paving the way for more data-driven, personalized cancer therapies.

Read more here

UPCOMING EVENTS

Munich AI Lecture with Jean-Luc Starck

On February 18, 2025, Prof. Dr. Jean-Luc Starck (Director of Research, CEA-Saclay) will deliver a lecture at the Senatssaal at LMU as part of the Munich AI Lecture series. Beginning at 17:00, he will discuss deep learning solutions to inverse problems in astrophysics, highlighting how AI is transforming techniques such as image reconstruction and gravitational lensing analysis. His talk will explore the transition from traditional sparsity-driven methods to deep learning approaches, addressing both their potential and the challenges they present. The event is supported by MCML and BAIOSPHERE open to all with no registration required.

Read more here

German Data Science Days

Data science plays a major role in science, industry, and business, and close collaboration between all parties involved is necessary. The German Data Science Days (GDSD) on February 27-28 will bring together data scientists from various fields to create a forum for users and experts. The aim of the event is to identify and discuss new methods and fields of application and, moreover, to elevate the professional profile of data scientists. The German Data Science Days are organized by the elite master programme Data Science at LMU München in cooperation with the German Data Science Society (GDS) e.V.

Read more and register here

Global Health Perspectives: The Role of Artificial Intelligence in Health Systems Strengthening to Achieve One Health

The Center for International Health (CIH^{LMU}) is hosting a full-day symposium bringing together experts, researchers, practitioners, and policymakers to explore the role of artificial intelligence in strengthening health systems within a One Health framework. Through keynote addresses and a plenary discussion, participants will examine AI's applications in disease surveillance, healthcare access, diagnostics, and resource allocation, particularly in low-resource settings. Ethical and regulatory considerations will also be a key focus. The free event aims to enhance global collaboration on AI-driven health solutions and will take place in a hybrid format, both online and in person.

Read more and register here

AI in Teaching: Two Online Seminars by PROFiL

Two upcoming online seminars by PROFiL will explore AI applications in higher education. On March 26, 2025, at 9:30 AM, ChatGPT in Teaching will focus on how AI can support course planning and instruction. On April 3, 2025, at 9:30 AM, AI Image-Generating Tools in Teaching will introduce AI-generated imagery and its potential for educational use. Both sessions will address practical applications as well as legal considerations and are designed to help educators integrate AI effectively into their teaching. The seminars will be held in German.

Send us your news

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