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Research & Awards

Step-by-step AI explanations improve diagnostic accuracy in radiology

A research team led by Prof. Dr. Stefan Feuerriegel (Artificial Intelligence in Management, LMU) investigated how different forms of AI explanations affect diagnostic accuracy in radiology. In a randomized experiment, radiologists reviewed real patient scans, either without AI support or with different outputs from a multimodal language model. The study shows that step-by-step explanations helped physicians achieve the highest diagnostic accuracy, underscoring that AI systems can support medical decision-making most effectively when their recommendations are verifiable and can be critically assessed by clinical experts.

Read more here.

AI analyzes whole mouse bodies down to cell level

An international research team led by Prof. Dr. Ali Ertürk (Systems Biology and Technology Transfer, LMU) has developed MouseMapper, an AI-powered method for analyzing whole mouse bodies down to the single cell level. The system combines tissue clearing, light sheet microscopy, and deep learning to automatically map neural pathways, immune cells, and 31 different organs and tissues. Prof. Dr. Ertürk's team used MouseMapper to identify previously unknown nerve damage linked to obesity and pursue the long-term goal of building digital cell atlases that could function as virtual twins for studying disease and testing therapies.

Read the full article here

LMU spin-off protects digital remembrance from deepfakes

LMU students Pablo Toussaint, Florimon Poisson, and Rosa Bauer founded the Global Authentic Memory Initiative (GAMI) to help archives, documentation centers, and memorial sites protect digitized historical records against AI generated falsification and delegitimization. The nonprofit uses cryptographic fingerprints, blockchain based proof of existence, and institutional attribution to make the authenticity of digital files publicly verifiable without requiring archives to share the original material. The project addresses a growing risk for Holocaust remembrance, where deepfakes and AI fabricated imagery can undermine trust in historical evidence.

Learn more here.

Emmy Noether funding for explainable AI in medical imaging

Prof. Dr. Johannes C. Paetzold has received an Emmy Noether Grant from the German Research Foundation (DFG) to establish a research group on explainable artificial intelligence at LMU. The six year grant totals 2.1 million euros and supports work on Vision Language Models that can better understand structures and relationships in images while making their decisions more intelligible to humans. The project combines geometry, topology, and graph theory with current AI architectures to strengthen robustness, transparency, and interpretability. A central focus lies on medical applications, including the early detection of eye and vascular diseases as well as cancer.

Read the full announcement here.

In the News

Prof. Dr. Björn Ommer on Bavaria’s regional AI foundation model

In a recent BR article Prof. Dr. Björn Ommer (Computer Vision and Learning Group & Chief AI Officer, LMU) was featured in coverage of the Bavarian AI Foundation Model Initiative. The Free State is investing more than 50 million euros in high performance Nvidia GPUs to support the development of a regional AI foundation model. In this context, Prof. Dr. Ommer emphasized that many current AI systems depend heavily on expensive hardware and that future progress will require more efficient approaches. The initiative aims to broaden access to AI technologies beyond large technology companies, enabling startups, smaller organizations, and public institutions to benefit from powerful AI systems.

Read the full article here.

Prof. Dr. Björn Eskofier on interdisciplinary health AI

Prof. Dr. Björn Eskofier (AI-supported Therapy Decisions, LMU) participated in the panel “How Research Scientists Build Health AI” at the Digital Health Innovation Forum hosted by the Hasso Plattner Institute in Potsdam. The discussion focused on why AI in medicine often remains difficult to implement despite strong technical progress and growing health data. Prof. Dr. Eskofier pointed out that algorithms are rarely the main bottleneck. Instead, impactful health AI requires close collaboration between technology, clinical practice, regulation and patient care from the beginning, so that research can move into real clinical use.

Read the feature here.

European doctoral network researches AI in the workplace

EMANAIRE, a new Marie Skłodowska-Curie doctoral network on AI-augmented futures of work, will be contributed to by Prof. Dr. Anne-Sophie Mayer (Digital Work, LMU Munich School of Management). The Horizon Europe funded network investigates how generative AI and AI agents are transforming work practices, organizations, management, internal communication, skills, and careers. A central focus is human agency: who makes decisions when AI becomes part of everyday work, how responsibility is assigned, and how AI tools are distributed within organizations. At LMU, Prof. Dr. Mayer will contribute expertise in qualitative research, supervise doctoral students, and connect the network with existing work on AI companions.

Learn more here.

Bundesministerium für Wirtschaft und Energie

Prof. Dr. Björn Ommer contributes to federal AI and competition commission

Prof. Dr. Björn Ommer (Computer Vision and Learning Group & Chief AI Officer, LMU) contributed to the federal expert commission “Competition and Artificial Intelligence”, established by the German Federal Ministry for Economic Affairs and Energy (BMWE). The commission has presented guiding principles and recommendations for strengthening AI, competition, and competitiveness in Germany and Europe. Its proposals focus on building basic AI infrastructure, strengthening competition, reducing bureaucracy, creating easier access to AI resources, and supporting innovation more effectively. The recommendations address a central AI policy question: how Europe can promote technological sovereignty without deepening dependence on a small number of dominant technology companies.

Read the full report here.

Events

MCML
Munich Center for Machine Learning

MCML Munich AI Day 2026 (23.06.)

The Munich Center for Machine Learning (MCML) will host the MCML Munich AI Day 2026 on 23 June at Muffathalle in Munich. The summit brings together AI researchers from Germany and abroad, as well as representatives from policy, industry, and the media, to discuss current questions around AI. The program includes keynote talks on fine-grained image analysis, AI for the sciences, Earth observation, and future healthcare.

Learn more and register here.

Talk: A liberating framework for learning treatment effects (06.07.)

Prof. Ronghui Lily Xu (University of California, San Diego) works on causal inference, machine learning in biomedical big data, and statistical methods for health research. In her talk at LMU's Institute for Artificial Intelligence in Management, she will discuss how AI and statistics can help estimate the effects of treatments when medical data is incomplete or difficult to interpret. The talk presents a framework for analyzing time-to-event data, such as survival without cognitive impairment, even when some observations are missing or only partly available.

Full details here.

Summer School on Imprecise Probabilities (27.07.-31.07.)

The Summer School on Imprecise Probabilities 2026 will take place in Munich from 27 to 31 July. It is organized by the Chair of Artificial Intelligence and Machine Learning and AG Augustin (Department of Statistics). This year's programme covers foundations, philosophy, decision making, statistics, and machine learning, highlighting methods for reasoning under uncertainty and their relevance for reliable AI.

See the details here.

Workshop: Assessing AI in term papers (07.08.)

The University Library (UB) is offering an online workshop for lecturers on how grading processes can be adapted when students use AI in term papers. The session focuses on practical questions that many teachers now face: how supervision can be structured, which criteria make AI use assessable, and how term papers can be graded fairly under these conditions. Participants will work on ways to define meaningful evaluation standards for their own teaching formats. The German language workshop is the second part of the series “KI in Hausarbeiten bewerten”, but participation is also possible without having attended the first session.

Learn more here.

Send us your news

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