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沖縄科学技術大学院大学

VISITING PROGRAM

TSVP TALK

Reducing AI Agnostophobia

2026
FRI.

May 29

15:00–16:00

HYBRID L5D23, ZOOM



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Artificial Intelligence (AI) transforms everything from autonomous vehicles to scientific research. Yet, its rapid adoption has triggered "AI agnostophobia", a fear of the unknown exacerbated by unpredicted AI failures, such as autonomous vehicles colliding with overturned trucks and AI assistants exhibiting severe demographic biases. To reduce AI agnostophobia, we talk demystifies the bedrock of modern AI: Foundation Models (FMs) trained on billions of internet data. By analyzing such data, we expose the underlying data imbalances that inherently drive model bias; we present simple post-hoc techniques that can mitigate this bias.

Nevertheless, can we safely rely on AI to analyze our data in highly specialized fields like biology and ecology? To address this question, we introduce AutoExpert, a practical research framework designed to automate domain-data annotation with expert-crafted guidelines. By presenting AI-based approaches and key insights, we delineate both the limitations and the promises of expert-AI collaboration, illustrating how this synergy can accelerate interdisciplinary research.

University of Macau

Shu Kong

Shu Kong is in the faculty of Computer Science at the University of Macau, with prior academic appointments at Carnegie Mellon University and Texas A&M University. He holds a Ph.D. from UC Irvine. His research spans computer vision, applied machine learning, and interdisciplinary science. He actively promotes the field of Open-World Vision, on which his work earned Best Paper / Marr Prize nomination at ICCV 2021. His previous interdisciplinary breakthroughs include an automated high-throughput pollen analysis system, which was highlighted by the U.S. National Academy of Sciences (NAS) and the National Science Foundation (NSF) as "opening a new era of fossil pollen research."



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