Přírodovědecká
Univerzita Karlova

Chemie

Sustainable Electrochemical Systems Lab (SESL),
The Department of Physical and Macromolecular Chemistry, Faculty of Science
Charles University

Artificial intelligence is fundamentally reshaping the nature and role of information infrastructure

PRESENTERS

Dr Nizar Hoblos



Head of Major in AI and Business Analytics at Macquarie Business School, bringing over 25 years of experience at the intersection of technology, business, and innovation. His work examines how digital technologies reshape work, organisations and professional roles, connecting Information Systems research with industry experience.

Dr Lin Yue



Course Director of the Master of Business Analytics and Lecturer in the department of Actuarial Studies and Business Analytics at Macquarie Business School. Her research focuses on digital enablement, digital innovation and business analytics.

SEMINAR OVERVIEW

Artificial intelligence is extending the role of information infrastructure beyond organisational efficiency to societal transformation and scientific advancement. AI-enabled infrastructure is an evolving sociotechnical ecosystem that connects data, intelligent technologies, human expertise and institutional practices to support new forms of knowledge creation, collaboration and value generation.

Drawing on Information Systems research and design science perspectives, this seminar explores how AI capabilities become embedded in existing infrastructures, how people and AI interact to generate collective intelligence, and how these interactions reshape established practices, institutional arrangements and processes of knowledge production.

Illustrative cases highlight the potential of AI-enabled infrastructure to support digital innovation, empower underserved communities, accelerate scientific discovery, and enable inclusive and sustainable development. The discussion also considers the challenges of governance, trust, adaptability and responsible AI integration.

KEY THEMES **Sociotechnical systems · Collective intelligence · Scientific discovery · Responsible AI**

DATE and TIME
10th December 2026
14:30–15:30 CET

LOCATION
KFMCh – CH10 (3rd floor)
Hlavova 8, 128 43 Praha 2

Hosted by Dr Rui Gao (Group leader of Sustainable Electrochemical Systems Lab)