

Academia Europaea (AE) <https://www.ae-info.org>

AI Challenges for European Research and Academia, 4-5 Sep. 2024

Venue: Lecture Theatre 311, Huxley Bldg. 3rd Floor, ICL, 180 Queens Gate, London SW7

Sponsors: Academia Europaea & CNRS Abraham de Moivre Math. Laboratory, ICL
Co-Sponsor: Foundation for Science and Technology, UK **AE Task Force on AI:** Erol Gelenbe MAE (Chair), Guy Brasseur MAE, Schahram Dustdar MAE, Thomas Eiter (MAE), Véronique Halloin, Alessandro Lenci **Organizing Committee:** Dan Crisan, Maths. Dept., ICL, Erol Gelenbe, Inst. Theoretical & Applied Informatics, Polish Acad. Sci., Federica Pratola, Maths.Dept. ICL

For invitation and registration please email: seg@iitis.pl

Preliminary Programme

Wednesday Sep 4, 2024

10.00am Welcome

10.10am-11.30 Introduction

- Thomas Eiter MAE, FAcadSci Austria “Logic versus ML: Links to Foundations of AI”
- Zeina Zakhour, CTO Global Security Eviden/ATOS, “Interdisciplinary Perspectives on AI for Cybersecurity & Security for AI” zeina.zakhour@eviden.com
-

11.30-12.30 Brain Modeling

- Samuel Deslauriers-Gauthier, INRIA, “Modeling the Brain Connectome”
- Dan Farina, ICL “Mapping Brain and Spinal Sensorimotor Activity”
-

12.30am-1.15pm Lunch

1.15pm-3.15pm Machine Learning I

- Yonina Eldar MAE, FAcad.Sci.Israel, Weizmann Institute “Model-based Deep Learning”
- Eric Moulines FAcadSci Fr, Ecole Polytechnique “Advances in Transfer Learning”
- Louis Wehenkel MAE, Liège Univ. “Physics informed ML for bulk electric power systems”
-

3.15pm-3.30pm Coffee Break

3.30pm-6.30pm Machine Learning II

- Tolga Birdal, ICL “Topological Deep Learning: Beyond Graph Data”
- Ekin Dogus Cubuk, Google DeepMind “Scaling up computational materials discovery via deep learning”
- Marco di Renzo MAE, CNRS, Centrale Supélec “Smart Metasurfaces for Communications”
- Erol Gelenbe MAE, IITIS & KCL “Wave Equation for Quantum Neural Networks”
-

7pm Dinner for Speakers and Organizers at Ogniesko (Exhibition Road)

Thursday Sep 5, 2024

9.30am to 10.30am AI in Cybersecurity, Trust and Privacy

- Yves-Alexandre de Montjoye, ICL “Computational Privacy and AI”
- Zheng Yan, Xidan University “AI-empowered Trust and Trust-controlled AI”
-

10.30am-10.45am Coffee Break

10.45am-12.00am Research on Language Technology

- Iryna Gurevych, TU Darmstadt, “How to InterText? Modeling Text as a Living Object in Context”
- Anna Korhonen, Univ. Cambridge “Towards globally equitable language technologies”
-

12.00am - 12.45am Lunch Break

12.45am-3.00pm AI in Healthcare

- Benoît Macq FRoyAcad Be, Louvain Univ. “Coalitional Learning for Healthcare”
- Payam Barnaghi, ICL, “AI for Personalized Healthcare Alerts”
- James Cole, UCL “AI in the Analysis of Brain Ageing”
-

3.00pm-3.15pm Coffee Break

3.15pm-6.15pm AI in Engineering

- Helen Li, Duke Univ. “Efficient Machine Learning: Algorithm-Hardware Co-design”
- Alexandra Brintrup, Cambridge Univ. , “Explainable AI for Supply Chains”
- Eiman Kanjo, Nottingham Trent Univ. & ICL “Tiny ML” ekanjo@ic.ac.uk
- Emmanouil Spyarakos, KCL “Interchangeability of AI and Control Theory for Robot Control”