

ICANN25



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EBRAINS

International Conference on Artificial Neural Networks ICANN 2025

Kaunas, Lithuania
9-12 September 2025

<https://e-nns.org/icann2025/>

General Chairs:

Yoshua Bengio (Université de Montréal, Canada)
Viktor Jirsa (Aix-Marseille Université, France; EBRAINS)

Program Chairs:

Walter Senn (University of Bern, Switzerland)
Allessandro Villa (University of Lausanne, Switzerland))
Igor Tetko (Helmholtz Munich, Germany)
Marcello Sanguineti (University of Genoa, Italy)

Local Organizers:

Ausra Saudargiene (Lithuanian University of Health Sciences, Kaunas, Lithuania)
Linus Petkevičius (Vilnius University, Vilnius; Artificial intelligence Association of Lithuania)

International Conference on Artificial Neural Networks ICANN 2025

Tuesday, 9 September 2025

8.00 - 9.00	Registration
9.00 - 10.30	Tutorials
	<i>Tutorial AI: Causality</i> Bernhard Schölkopf (Max Planck Institute for Intelligent Systems, Tübingen, Germany) <i>Tutorial CNS: The Virtual Brain</i> Viktor Jirsa (Aix-Marseille University, France) <i>Tutorial Dynamic Field Theory Tutorial</i> Gregor Schöner (Ruhr-Universität Bochum, Germany)
10.30 - 11.00	Coffee break
11.00 - 12.00	Tutorials
	<i>Tutorial AI: Causality</i> Bernhard Schölkopf (Max Planck Institute for Intelligent Systems, Tübingen, Germany) <i>Tutorial CNS: The Virtual Brain</i> Viktor Jirsa (Aix-Marseille University, France) <i>Tutorial Dynamic Field Theory Tutorial</i> Gregor Schöner (Ruhr-Universität Bochum, Germany)
12.00 - 13.00	Lunch
13.00 - 15.00	Tutorials
	<i>Tutorial AI: GFlownets</i> Emmanuel Bengio (Valence Labs/Recursion, Canada) <i>Tutorial CNS: Simulated Bayesian inference</i> Jakob Macke (Machine Learning in Science, University of Tübingen, Germany) <i>Tutorial Brain Visual Decoding with Generative Models</i> Weihao Xia (University of Cambridge, UK) Cengiz Öztireli (University of Cambridge, UK)
15.00 - 15.30	Coffee break
15:30 - 17.00	Tutorials
	<i>Tutorial AI: GFlownets</i> Emmanuel Bengio (Valence Labs/Recursion, Canada) <i>Tutorial CNS: Simulated Bayesian inference</i> Jakob Macke (Machine Learning in Science, University of Tübingen, Germany) <i>Tutorial Brain Visual Decoding with Generative Models</i> Weihao Xia (University of Cambridge, UK) Cengiz Öztireli (University of Cambridge, UK)
17.00 - 18.00	Opening Keynote lecture on causality Bernhard Schölkopf (Max Planck Institute for Intelligent Systems, Tübingen, Germany)
20.00-23.00	Welcoming Reception

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Wednesday, 10 September 2025

8.00 - 9.00	Registration
9.00 - 10.00	Keynote lecture: computational neuroscience and whole brain simulations Viktor Jirsa (Aix-Marseille University, France) <i>The Virtual Brain for personalized whole brain models in health and disease</i>
10.00 - 10.30	Coffee break
10.30 - 12.00	Invited talks EBRAINS morning session
10.30 - 11.15	Mihai Petrovici (NeuroTMA Lab, University of Bern, Switzerland) <i>Teacher propagation through space, time and the brain</i>
11.10 - 12:00	Mehmet Fatih Yanik (ETH Zurich, Switzerland) <i>Engineering brain activity patterns for therapeutics</i>
12.00 - 13.00	Lunch
13.00 - 14.30	Poster Session
14.30 - 16.00	Invited talks AI afternoon session
14.30 - 15.15	Jakob Macke (Machine Learning in Science, University of Tübingen, Germany) <i>Building mechanistic models of neural computations with simulation-based machine learning</i>
15.15 - 16.00	Ameya Pandurang Prabh (Tübingen AI Center, University of Tübingen, Germany) <i>Scalable strategies for AI oversight of AI - progress, pitfalls and path forward</i>
16.00 - 16.30	Coffee break
16.30 - 17.30	Public Keynote Lecture on Ethics in AI, Neuroscience, Digital Twins, and Consciousness Research Christiane Woopen (University of Bonn, Germany) <i>Neuroscience and AI for a flourishing life</i>
17.30 - 18.30	Public Panel Discussion on AI, Neuroscience, Ethics and Future Bernhard Schölkopf, Christiane Woopen, Viktor Jirsa, Emmanuel Bengio, Yoshua Bengio (remote)
20.00 - 23.00	Gala Dinner at Science Island, Kaunas, Lithuania

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Thursday, 11 September 2025

8.00 - 9.00	Registration
9.00 - 10.00	Keynote lecture: AI and generative models Emmanuel Bengio (Valence Labs/Recursion, Canada)
10.00 - 10.30	Coffee break
10.30 - 12.00	Parallel Sessions
10.30 - 12.00	Workshop <i>AI in Drug discovery</i> Igor Tetko (Helmholtz Munich, Germany)
12.00 - 13.00	Lunch
13.00 - 14.30	Parallel Sessions
13.00 - 14.30	Workshop <i>AI in Drug discovery</i> Igor Tetko (Helmholtz Munich, Germany)
14.30 - 15.00	Coffee break
15.30 - 17.00	Parallel Sessions
17.00 - 18.00	Keynote lecture Alessio Micheli (University of Pisa, Italy) A Journey through Efficient Deep Learning on Graphs
18.00 - 18.30	Best Paper Award
18.30 - 19.30	European Neural Network Society ENNS General Assembly meeting
20.00	Sport evening at Zalgirio Arena, Kaunas, Lithuania

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Friday, 12 September 2025

8.00 - 9.00	Registration
9.00 - 10.00	Keynote lecture Gintare Dziugaite (DeepMind, USA) <i>On memorization and unlearning</i>
10.00 - 10.30	Coffee break
10.30 - 12.00	Workshops <i>3rd International Workshop on Reservoir Computing</i> Domenico Tortorella (University of Pisa, Italy) <i>Special Session on Neurorobotics</i> Kristina Malinovska (Comenius University in Bratislava, Slovakia)
12.00 - 13.00	Lunch break
13.00 - 14.30	Workshops <i>3rd International Workshop on Reservoir Computing</i> Domenico Tortorella (University of Pisa, Italy) <i>Special Session on Neurorobotics</i> Kristina Malinovska (Comenius University in Bratislava, Slovakia)
15.00 - 15.30	Coffee break
15.30 - 17.30	Workshops <i>3rd International Workshop on Reservoir Computing</i> Domenico Tortorella (University of Pisa, Italy) <i>Special Session on Neurorobotics</i> Kristina Malinovska (Comenius University in Bratislava, Slovakia)
17.30 - 18.00	Closing Remarks and Farewell