ICANN24

33rd International Conference on Artificial Neural Networks

Second Call for Papers

The International Conference on Artificial Neural Networks (ICANN) is the annual flagship conference of the European Neural Network Society (ENNS) https://e-nns.org. In 2024, the ICANN will take place in Lugano, Switzerland.

Conference Dates: September 17 to September 20, 2024
Conference Venue: Campus of the University of Southern Switzerland and the University of Applied Sciences and Arts of Southern Switzerland, Via la Santa 1, 6962 Lugano-Viganello, Switzerland.
Conference Webpage: https://icann2024.org

The ICANN 2024 features three conference tracks, namely *AI and Machine Learning, Bio-Inspired Computing,* and the *Applications* Track, making it a unique forum to bring together researchers across a wide range of disciplines related to Artificial Intelligence and Neural Networks.

We invite prospective authors to submit **original and innovative papers** in the following areas:

AI and Machine Learning Theory and Foundations of Neural Networks Novel Neural Network Architectures Topics in Neural Networks Large Language Models Explainable AI Graph Methods, Graph Neural Networks, and Clustering Reinforcement Learning Topics in Artificial Intelligence and Machine Learning **Bio-Inspired Computing** Brain-Inspired Computing Cognitive and Theoretical/Computational Neuroscience	**Applications** Human-Computer Interaction Biosignal Processing, Medicine and Physiology Speech and Language Processing Computer Vision Robotics Climate and Environment General Applications of Machine Learning
Workshops AI in Drug Discovery Deep Learning for Neuro-heuristic Brain Analysis Reservoir Computing Explainable AI in Human-Robot Interaction **Special Sessions** Spiking Neural Networks and Neuromorphic Computing Accuracy, Stability, and Robustness in Deep Neural Networks Antifragile dynamical systems: beyond robustness, resilience, and adaptiveness Neurorobotics	

For further details and updates, as well as for the final list of workshops and special sessions, refer to the current version of the list at: https://e-nns.org/icann2024/conference-programme/conference-topics.

The ICANN 2024 will be an in-person conference. We expect that at least one co-author of each paper will be physically present in Lugano to give his or her presentation. We will also enforce a no-show rule, in order to encourage an optimal quality of the scientific discussion here in Lugano.

Papers must be written in the English language and must conform to the format defined in the Author's Kit, available on the conference webpage at https://e-nns.org/icann2024/submission. Both short papers (6-11 pages) and full papers (12-15 pages) can be submitted. Papers shorter than 6 pages will not be accepted to the main

conference, please check special submission rules for the conference workshops on the webpage of the respective workshop if you plan to submit there.

Papers will undergo rigorous peer review; the Program Committee will make the final decision which papers will be included in the conference program. For papers with conflicting reviews, or which are on the borderline between acceptance and rejection, a short rebuttal phase is foreseen.

Full papers will usually be assigned to oral sessions (15 minutes presentation + 5 minutes questions), short papers may be assigned to oral or poster sessions, depending on the quantity of submissions; this assignment does in no way incur a judgment on paper quality. Note that presentation rules for workshops and special sessions may differ. All accepted papers will be published in the Springer LNCS series.

Conference committee and Keynote Speakers

Keynote Speakers Jürgen Schmidhuber, IDSIA USI-SUPSI, Switzerland, and KAUST AI Initiative, Saudi Arabia Tanja Schultz, University of Bremen, Germany Walter Senn, University of Bern, Switzerland Henry Markram, École polytechnique fédérale de Lausanne, Switzerland	**General Chairs** Jürgen Schmidhuber, IDSIA USI-SUPSI, Switzerland, and KAUST AI Initiative, Saudi Arabia Igor Tetko, HMGU Munich, Germany **Program Chairs** Michael Wand, IDSIA USI-SUPSI, Switzerland Kristína Malinovská, Comenius University, Bratislava, Slovakia **Honorary Chair** Stefan Wermter, University of Hamburg, Germany

Full list of the organization committee: https://e-nns.org/icann2024/organization/organising-committee/

Important Dates

Opening of submission portal: Feb 15 2024
Deadline for full paper submission: March 15 2024
Notification of Acceptance or Rebuttal: May 15 2024
Deadline for rebuttal: May 31 2024
Final notification of Acceptance or Rejection after Rebuttal: June 10 2024
Camera-ready paper upload and author registration: June 30 2024

Contact

In case you have any questions, please contact program-committee@icann2024.org.