

## Call for Papers

# Special Session on Spiking Neural Networks and Neuromorphic Computing

at the 33rd International Conference on Artificial Neural Networks ICANN 2024

Sep. 19-20, Lugano, Switzerland

The logo for ICANN 2024, featuring the letters 'I', 'C', 'A', 'N', 'N', '2', '4' in a stylized, bold font, each letter inside a dark blue square with a white border. The background of the entire page is a light blue, abstract neural network diagram with glowing nodes and connections.

The special session invites contributions on recent advances in spiking neural networks. Spiking neural networks have gained substantial attention recently as a candidate for low latency and low power AI substrate, with implementations being explored in neuromorphic hardware. This special session aims to bring together practitioners interested in efficient learning algorithms, data representations, and applications.

## SPECIAL SESSION TOPICS

Methodological as well as applied contributions are solicited, including topics like (non-exhaustive list):

- Spiking Neural Network Models
- Spike Response Models
- Temporal Codes
- Learning Algorithms for SNNs
- Neuromorphic Computing

## SUBMISSION INSTRUCTIONS

Contributions (full papers: 12 – 15 pages, short papers: 6 – 11 pages) have to be submitted through the regular ICANN submission system at

<https://e-nns.org/icann2024/submission/>

Select category **Special Session: Spiking Neural Networks and Neuromorphic Computing**. Accepted papers to the special session will appear in the proceedings of the ICANN 2024 conference.

## IMPORTANT DATES

- Paper submission deadline: **March 25, 2024 (postponed)**
- Notification of acceptance/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: June 30, 2024
- Conference dates: September 17-20, 2024

## PROGRAM COMMITTEE

Federico Corradi (TU Eindhoven, Netherlands), Manon Dampfhofer (CEA-List, France), Effrosyni Doutsis (FORTH, Greece), Gerrit Ecke (Mercedes-Benz, Germany), Charlotte Frenkel (TU Delft, Netherlands), Aditya Gilra (CWI Amsterdam, Netherlands), Nikola Kirilov Kasabov (AUT, New Zealand & BAS, Bulgaria), Saeed Reza Kheradpisheh (Shahid Beheshti University, Iran), Pablo Lanillos (Radboud University, Netherlands), Robert Legenstein (TU Graz, Austria), Douglas McLelland (BrainChip, France), Dylan Muir (SynSense, Switzerland), Angeliki Pantazi (IBM, Switzerland), Laurent Perrinet (Aix-Marseille University, France), Yulia Sandamirskaya (ZHAW Zurich, Switzerland), Osvaldo Simeone (King's College London, UK)

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