INTERNATIONAL NEURAL NETWORK SOCIETY | IEEE Computational Intelligence Society | IEEE



IJCNN 2027

International Joint Conference on Neural Networks

14 – 18 June 2027 || CAPE TOWN, SOUTH AFRICA

NEURAL NETWORKS - THE BASIS OF CREATIVITY AND IMAGINATIONS

The IJCNN is a premier international conference in the field of neural networks, the foundations of artificial intelligence, and intelligent applications. *The theme for IJCNN 2027 is cognitive architectures for developing artificial general intelligence.* Whether you are presenting your latest research, learning from experts, or networking with peers, IJCNN 2027 promises to be a memorable experience that will inspire and propel the AI community forward. We look forward to welcoming you in the mother city of the rainbow nation - Cape Town,

CALL FOR PAPERS Prospective authors are invited to submit complete papers of no more than six (6) pages in the IEEE two-column conference proceedings format. Further information will be posted on the IJCNN 2027 website.

Topics of interest include but are not limited to:

- Agentic AI and Embodied Intelligence
- AI for X (Agriculture, Critical Infrastructure, Education, Energy, Finance, Health, Law)
- Artificial General Intelligence
- Cellular, Distributed, Federated, and Scalable Learning
- Cognitive Architectures
- Collective and Ensemble Intelligence
- Computational Neuroscience, Neural Engineering, and Brain-Machine Interfaces
- Continual and Adaptive Learning
- Efficient and Resource-Constrained Neural Networks
- Foundation Models and LLMs
- Graph and Relational Neural Networks
- Multimodal Learning
- Neural Network Applications
- Neural Network Fundamentals
- Neuromorphic and Spiking Neural Systems
- Neuro-symbolic AI
- Physics-Informed Neural Networks and Scientific ML
- Probabilistic, Causal, and Uncertainty-Aware Learning
- Quantum AI/ML
- Reinforcement Learning and Decision Making
- Representation Learning and Generative AI
- Trustworthy and Explainable AI

CALL FOR TUTORIALS IJCNN 2027 will feature pre-conference tutorials, covering fundamental and advanced topics in AI and neural networks.

CALL FOR SPECIAL SESSIONS IJCNN 2027 solicits proposals for special sessions, within the technical scope of IJCNN 2027. Cross-fertilization of disciplines and emerging areas are strongly encouraged.

CALL FOR WORKSHOPS IJCNN 2027 will host half-day workshops on emerging topics in neural networks and AI.

CALL FOR COMPETITION PROPOSALS IJCNN 2027 will include competitions to stimulate research in neural networks.

CALL FOR PANELS IJCNN 2027 will host panels on future directions of neural networks and AI.

General Chair
G Kumar Venayagamoorthy (USA)

Program Chair
Danilo Comminiello (Italy), Joey Zhou (Singapore)

Technical Program Chairs
Plamen Angelov (UK), Komla Folly (South Africa), Kai Qin (Australia), Marley Vellasco (Brazil)

Plenary and Keynote Chairs
Francesco Carlo Morabito (Italy), Jose Príncipe (USA)

Panel Session Chairs
Deliang Wang (China), Donald Wunsch (USA)

Special Sessions Chairs
Petia Georgieva (Portugal), Caroline König (Spain)

Tutorials Chairs
Thambo Nyathi (South Africa), Emanuele Principi (Italy)

Workshops Chairs
MC du Plessis (South Africa), Stefano Squartini (Italy)

Competition Chairs
Samuel Yen-Chi Chen (USA), Zita Vale (Portugal)

Industry Chairs
Abdulla Isa Al Abbasi (Bahrain), Martha Ivon Cardenas (Spain), Catherine Huang (USA), Viresh Moonasar (South Africa), Prabhu Murali (South Africa), Kanshukan Rajaratnam (South Africa), Swakshar Ray (India)

COI Chairs
Robert Kozma & Robi Polikar (USA)

AI Ethics Chairs
Keeley Crockett (UK), Nicola Fabiano (Italy)

Education Programs Chairs
Tayo Obafemi-Ajayi (USA), M. Tanveer (India)

Student Programs Chairs
Marcus Liwicki (Sweden), Zenglin Xu (China)

Award Chairs
Irwin King (China), Marios Polycarpou (Cyprus)

Publicity Chairs
Naveena Bhargavi R (India), Anna S. Bosman (South Africa), Anne Canuto (Brazil), Zeng-Guang Hou (China), Zhen Ni (USA), Alvaro David Orjuela (Colombia), Gabriella Pasi (Italy), Parimala Thulasiraman (Canada), Bing Xue (New Zealand)

Finance Chair
Danil Prokhorov (USA)

Publications Chairs
Rahma Fourati (Tunisia), Huajin Tang (China)

Local Arrangement Chairs
Senthil Krishnamurthy & Geoff Nitschke (South Africa)

Exhibitions & Registration
Kailey Diehl (USA)

IMPORTANT DATES

SUBMISSION DEADLINES

November 15, 2026
Special Sessions & Workshop Proposals

November 30, 2026
Competition & Tutorial Proposals

January 31, 2027
Regular Papers

ACCEPTANCE NOTIFICATIONS

December 15, 2026
Special Sessions and Competition, Tutorial & Workshop Proposals

March 15, 2027
Regular Papers

For any questions or concerns, please contact us at IJCNN2027@ijcnn.org.