



The 29th International Conference on Neural Information Processing (ICONIP 2022)
New Delhi, India, November 22 - 26, 2022 <http://iconip2022.apnns.org/>

The International Conference on Neural Information Processing (ICONIP) is an annual conference that brings together researchers from different countries in the fields of pattern recognition, neuroscience, intelligent control, information security and brain-machine interface to exchange ideas and discuss possible collaborations. ICONIP is the annual flagship conference organized by the Asia Pacific Neural Network Society (APNNS). The 29th ICONIP 2022 is jointly organized by Indian Institute of Technology Indore, India and Indian Institute of Information Technology Allahabad, Prayagraj, India to provide a leading international forum for researchers, scientists, and industry professionals who are working in neuroscience, neural networks, deep learning, and related fields to share their new ideas, progresses and achievements.

ICONIP 2022 will be held in New Delhi, India during **November 22-26, 2022** (in hybrid mode).

Organizing Committee

Honorary Chairs

- Jonathan H. Chan, KMUTT, Thailand
- P. N. Suganthan, NTU Singapore

General Chairs

- M. Tanveer, IIT Indore, India
- Sonali Agarwal, IIIT Allahabad, India
- Seiichi Ozawa, Kobe University, Japan

Program Chairs

- Asif Ekbal, IIT Patna, India
- Adam Jatowt, University of Innsbruck, Austria

Technical Chairs

- Shandar Ahmad, JNU, New Delhi, India
- Derong Liu, University of Chicago, USA

Special Sessions Chairs

- Kai Qin, Swinburne University of Technology, Australia
- Kaizhu Huang, XJTLU, China
- Amit K Singh, NIT Patna, India

Tutorial Chairs

- Swagatam Das, ISI Kolkata, India
- Partha Pratim Roy, IIT Roorkee, India
- Hussein Abbass University of New South Wales, Australia

Finance Chairs

- Shekhar Verma, IIIT Allahabad, India
- Hayaru Shouno, University of Electro-Communications, Japan

Publicity Chairs

- Jerry Chun-Wei Lin, HVL, Norway
- Chandan Gautam, A*STAR, Singapore

Regional Liaison Committee

- Sansanee Auephanwiriyaikul, CMU, Thailand
- Nia Kurnianingsih, Polines, Indonesia
- Md Rafiqul Islam, UTS, Australia
- Bharat Richhariya, IISc Bangalore, India
- Sanjay Kumar Sonbhadra, ITER, SOA, India
- Mufti Mahmud, Nottingham Trent University, UK
- Francesco Piccialli, University of Naples Federico II, Italy

Local Arrangements Chairs

- Pallavi Somvanshi JNU, New Delhi
- Yogendra Meena, University of Delhi, India
- M. Javed, IIIT Allahabad, India
- Vinay Kumar Gupta, IIT Indore, India

Sponsorship Chairs

- Asoke K Talukder, NIT Surathkal, India
- Vrijendra Singh, IIIT Allahabad, India

Website Chairs

- M. Arshad, IIT Indore, India
- Navjot Singh, IIIT Allahabad, India

Topics of Interest

ICONIP 2022 will deliver keynote speeches, invited talks, full paper presentations, posters, tutorials, workshops, social events, etc. Topics include but are not limited to:

A. Theory and Algorithms

- Causality and explainable AI
- Computational intelligence
- Control and decision theory
- Constraint and uncertainty theory
- Machine learning
- Neurodynamics
- Neural network models
- Optimization
- Pattern recognition
- Time series analysis

B. Computational and Cognitive Neurosciences

- Affective and cognitive learning
- Biometric systems/interfaces
- Brain-machine interface
- Computational psychiatry
- Decision making and control
- Neuroeconomics
- Neural data analysis
- Reasoning and consciousness
- Sensory perception
- Social cognition

C. Human Centred Computing

- Bioinformatics
- Biomedical information
- Healthcare
- Human activity recognition
- Human-centred design
- Human-computer interaction
- Neuromorphic hardware
- Recommender systems
- Social networks
- Sports and rehabilitation

D. Applications

- Big data analysis
- Computational finance
- Image processing and computer vision
- Data mining
- Information security
- Information retrieval
- Multimedia information processing
- Natural language processing
- Robotics and control
- Web search and mining

Important Dates

- Submission Deadline: **11:59 PM (AoE), June 15, 2022**
- Notification Date: **11:59 PM (AoE), August 15, 2022**
- Camera-Ready Deadline: **11:59 PM (AoE), August 31, 2022**

Instructions for Authors

Papers should be written in English and follow the Springer LNCS format. The submission of a paper implies that the paper is original and has not been submitted under review or is not copyright-protected elsewhere and will be presented by an author if accepted. Peer reviews are single blind and refereed by experts in the field based on the criteria of originality, significance, quality, and clarity. Like previous years, the Proceedings are proposed to be published in the Springer series of Lecture Notes in Computer Science (LNCS) and Communications in Computer and Information Science (CCIS). We are also negotiating with various journals to publish some selected papers in a special issue of an SCI indexed journal. Final papers after acceptance will normally be 10 pages with a maximum of 12 pages in length. The page count includes everything, including references and appendices. Please follow Springer's proceedings LaTeX templates provided in [Overleaf](#). Online Submission through EasyChair

<https://easychair.org/conferences/?conf=iconip2022>
Contact us at iconip.2022@gmail.com for any query.