



# ICEdge

## 2025 1<sup>ST</sup> INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING AND SYSTEMS AT THE EDGE

**December 18-20, IISc Bangalore Campus, Bengaluru, India**

### Objective and Description:

The tremendous progress in Artificial Intelligence (AI) and Internet of Things (IoT) technologies has opened up fresh possibilities for innovation and enhanced system-level efficiency across diverse vertical spaces in the technologies involved. The confluence of intelligence, pervasiveness, and energy efficiency, fueled by artificial intelligence of things (AIoT), is paving the way for a new era of intelligent systems capable of real-time sensing, processing, energy-efficient secure communication and actuation, eventually resulting in improved system-level decision-making and resource optimization at the Edge. This Conference on Intelligent Computing and Systems at the Edge seeks to unite researchers, practitioners, and industry experts to exchange their most recent discoveries, experiences, and insights in the exciting domain of AIoT and System Development at the Edge.

### Important Dates

**April 30, 2025:** Portal Opens for Draft Submissions

**July 15:** Submission Portal Closes

**August 30:** Author Notifications

**September 20:** Camera Ready Versions Due

### Tracks

**Track 1:** Devices and Circuits for Edge Applications

**Track 2:** Systems and Architectures at the Edge

**Track 3:** EDA Tools, Systems and Software for Edge AI

**Track 4:** Emerging Technologies and Applications at the Edge

**Track 5:** Industrial Design and Applications Track

Full list of Tracks is available at: <https://icedge.iita.ac.in/>



**General Chairs:** Swarup Bhunia, U. of Florida; Preeti Ranjan Panda, IIT Delhi, Arindam Basu, City U. of Hong Kong

**Program Chairs:** Debayan Das, IISc Bangalore; Baibhab Chatterjee, U. of Florida; Akhilesh Jaiswal, U. of Wisconsin-Madison



# ICEdge

## 2025 1<sup>ST</sup> INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING AND SYSTEMS AT THE EDGE

### Topics of Interest:

The topics of interest for the conference include, but are not limited to:

- Emerging Sensing Technologies for Edge IoT
- Computing Architectures and Technologies at the Edge
- Tiny Machine Learning for the Edge
- Generative AI for Edge IoT
- AI and IoT for the Metaverse
- Energy-efficient and Secure Communication Techniques for AIoT Systems
- Emerging AI algorithms and architectures for IoT systems
- Machine learning and deep learning for IoT systems
- AI-driven IoT security and privacy concerns and solutions
- AI-based Industrial IoT data analytics/visualization
- IoT-enabled AI applications, involving smart cities, smart homes, smart cars etc.
- Natural language processing and conversational AI for the Edge
- AIoT applications in robotics and industrial automation
- Scalability, performance, and energy efficiency in AIoT systems at the Edge
- Intelligent Battery and Power Management for AIoT systems
- Ethical considerations and need for Standards in AIoT Systems

**Additional Notes to Authors:** The lead author must obtain consent from all co-authors and must ensure that their information is provided correctly. Submissions must be anonymous for a double-blind review. Authors' names, affiliations or any other identifying information must not appear in the manuscript. References to the authors' prior work must be cited in the third person. Phrases such as "omitted for blind review" are not allowed in the reference section. PDF metadata must not include any author information. Submissions that fail to meet these blind-review requirements will be automatically rejected without review. The manuscript must not exceed 4 pages (excluding references) and must follow the IEEE style template without significant modification. This includes maintaining the specified margins, line spacing, and using a double-column format in 9- or 10-point font. Submissions must be in PDF format, readable, and adhere to the template requirements. References may be included within the 4-page limit or on one additional page. According to the IEEE Publication Services and Products Board Operations Manual, the use of content generated by AI (including but not limited to text, figures, images, and code) shall be disclosed in the acknowledgments section. The AI system used needs to be identified, as well as the specific section of the article that use AI (including the use of AI for editing and grammar).