



ICEdge

1st IEEE International Conference on
Intelligent Computing and Systems at
the Edge

IISc Bangalore, India
December 18-20, 2025
<https://icedge.org>



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.

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Important Dates

May 15	Portal Opens for Manuscript 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: Security and Privacy at the Edge
Track 6: Industrial Design and Applications

Full list of Tracks is available at:

<https://icedge.org/>

The top selected papers will be invited to journal version in the IEEE Design & Test.

General Chairs:

Swarup Bhunia, University of Florida;
Arindam Basu, City University of Hong Kong

Program Chairs:

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

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Topics of Interest for Edge IoT and AIoT Systems

- Emerging Sensing Technologies for Edge IoT
- Edge Computing Architectures and Technologies
- Tiny Machine Learning (TinyML) at the Edge
- Generative AI for Edge IoT
- AI and IoT in the Metaverse
- Energy-efficient and Secure AIoT Communication
- Emerging AI Algorithms and Architectures for IoT
- Machine and Deep Learning for IoT
- AI-driven IoT Security, Privacy, and Solutions
- AI-based Industrial IoT Analytics and Visualization
- IoT-enabled AI: Smart Cities, Homes, Vehicles
- NLP and Conversational AI at the Edge
- AIoT in Robotics and Industrial Automation
- Scalability, Performance, and Power Efficiency in AIoT
- Intelligent Battery and Power Management for AIoT
- Ethics and Standards in AIoT Systems

Additional Notes to Authors

The lead author must obtain consent from all co-authors and provide their information 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. Non-compliant submissions will be rejected without review. Manuscripts must follow the IEEE template and not exceed 6 pages (excluding references). This includes maintaining the specified margins and 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 6-page limit or on one additional page. According to the IEEE Publication Services and Products Board Operations Manual, the use of AI-generated content (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 uses AI (including the use of AI for editing and grammar).

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