Second IEEE International Symposium on Artificial Intelligence and Internet of Things (AIIoT-25)

December 22-24, 2025, IIEST Shibpur, India

Indian Institute of Engineering Science and Technology, Shibpur, India

(An Event under the **Scheme for Promotion of Academic and Research Collaboration (**SPARC), MoE, GOI)

Call for Papers

The Second IEEE International Symposium on Artificial Intelligence and Internet of Things (AIIoT-25) invites cutting-edge research contributions and offers a premier platform for discussing the transformative impact of AIoT on society. Authors are cordially invited to submit original research papers in the broad area of Artificial Intelligence of Things (AIoT). Topics include, but are not limited to:

Core AI and ML: AL-ML algorithms, Deep learning and neural network architectures, Transfer learning and meta-learning, Generative AI and foundation models, Explainable AI (XAI) and model interpretability, Online and incremental learning, Few-shot and zero-shot learning, AI security and Defense.

AI Hardware and Infrastructure: AI accelerators and specialized hardware, Efficient training and inference architectures, ML model compression and quantization, Hardware-aware neural architecture search (NAS), Area and power optimization for AI, Secure and VLSI-based AI implementations.

AI & ML for IoT: ML/DL algorithms tailored for IoT systems, TinyML and generative AI at the edge, NLP and conversational AI for edge devices, Predictive maintenance and anomaly detection, AI-powered analytics for Industrial IoT, Novel AI architectures for resource-constrained IoT.

Edge Computing & Architectures: Edge intelligence and distributed AI systems, Challenges in deploying AI at the edge, Edge computing technologies and architectures, Intelligent power and battery management, Performance, scalability, and energy optimization.

LLMs & Advanced AI Models: Deployment of large language models (LLMs) on mobile and edge, LLM applications in AIoT and embedded systems.

AIoT Applications: Smart cities, smart homes, and connected environments, AIoT in healthcare, wearables, and personalized medicine, Industrial automation and manufacturing, Precision agriculture using AI and IoT, AIoT in transportation, logistics, and supply chains, Robotics and robotic process automation (RPA), Environmental monitoring and sustainability.

Security, Privacy & Ethics: AI security and privacy in connected systems, Federated learning and privacy-preserving AI, Blockchain for securing IoT/edge devices, Cybersecurity frameworks for AIoT, Ethics, policy, and governance in AIoT, Standards and interoperability in intelligent systems.

Communication & Connectivity: Role of 5G/6G in enabling AIoT, Wireless sensor networks and data acquisition, Secure, low-power communication protocols for AIoT.

Cross-domain & Emerging Topics: Cross-domain integration of AI and IoT technologies, Innovations in sensors and actuators for intelligent systems, Human-machine interaction in AI-driven environments, Emerging sensing technologies for the edge.

Emerging Trends: AI hallucinations, Small Language Models (SLM), Agentic AI, Prompt optimization etc.

Submission link: ....

The AIIoT'25 Program Committee invites original, unpublished paper submissions on the above topics. It is planned to publish the peer reviewed and selected papers of conference as proceedings in IEEE Xplore digital library. The final camera-ready copy of the papers must be in IEEE conference format with a length of **maximum 6 pages**. Check Author Guidelines in IEEE Xplore for formatting the camera-ready article. Please note that all accepted papers that are registered and presented in the conference will be sent for possible inclusion in IEEE Xplore. The authors must agree to the IEEE copyright conditions and sign the IEEE copyright form as part of the online submission process. Each accepted contribution must have at least one full paid registration by the time the camera-ready paper is submitted for inclusion in the proceedings. AIIoT reserves the right to remove from proceedings papers not presented at the symposium.

Key Dates:
Submission deadline   : 31st July 2025
Notification of acceptance : 31st August 2025
Camera ready manuscript : 30th September 2025