International Conference on
Next-Generation Networks and Deployable Artificial Intelligence
(NGNDAI-2025)

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD, PRAYAGRAJ, INDIA
18th - 20th September 2025

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About NGNDAI 2025

The International Conference on Next-Generation Networks and Deployable Artificial Intelligence (NGNDAI-2025) is a platform that brings together researchers, industry experts, and practitioners to explore cutting-edge developments in machine intelligence, communication systems, and related technologies. NGNDAI-2025 features diverse topics including artificial intelligence, machine learning, intelligent networks, robotics, and next-generation communication technologies such as 5G/6G and IoT. The conference aims to foster collaboration across academia and industry, promote innovation in intelligent systems and communication networks, and address emerging challenges in related areas. With its focus on future technologies, NGNDAI-2025 is poised to advance the state-of-the-art in intelligent systems and redefine the landscape of communication technologies.

About MNNIT Allahabad

Motilal Nehru National Institute of Technology Allahabad (MNNIT), established in 1961, is a premier institution dedicated to quality education and academic excellence. Initially one of the 17 Regional Engineering Colleges of India, it became a National Institute of Technology in 2002 and was declared an Institution of National Importance in 2007 under the NIT Act. The institute was the first in the country to introduce an undergraduate program in Computer Science & Engineering in 1976. Additionally, the institute has played a key role in promoting entrepreneurship through initiatives like the establishment of an industrial estate and has been a lead institution under projects such as the Indo-UK REC Project and TEQIP, contributing significantly to India's technical education landscape.

Technical Tacks

Track 1: Artificial Intelligence and Machine Learning

- Activity Detection/ Recognition
- Biometrics, Forensics, Content Protection
- Compressed Image/ Video Analytics
- Deep Learning for Computer Vision
- Document and Synthetic Visual Processing
- Explainable AI and Generative AI
- Face, Iris, Emotion, Sign Language and Gesture Recognition
- Medical Image Analysis
- Human Computer Interaction
- Mathematical models of AI Large Language Models

Track 4: Cognitive Computing and Brain-Inspired Systems

- Cognitive robotics
- Cognitive decision theories
- Cognitive man-machine communication
- Software simulations of the brain
- Computational neurology
- Fuzzy/rough sets/logic
- Neuro-Inspired Learning Algorithms
- Perception and Sensory Systems

Track 2: Software-Defined Smart Computer Networks

- Architectures for Software Defined Networking (SDN) in Smart Networks
- Network Function Virtualization (NFV) and its Role in Smart Networks
- Intelligent Traffic Management using SDN
- Integration of IoT with Software Defined Networks
- Security and Privacy in SDN-based Smart Networks
- Dynamic Resource Allocation in SDN-enabled Smart Networks
- Programmable Data Planes and Custom Network Protocols
- SDN in 5G/6G and Next-generation Wireless Networks
- Performance Monitoring and Analytics in SDN-driven Smart Networks
- Self-Organizing Networks using SDN and AI
- Challenges and Future Trends in SDN-based Smart Networks
- SDN-based Quality of Service (QoS) Management
- Interoperability and Standardization in Software Defined Networks

Track 3: Advances in the IoT, Fog and Edge Computing and its Applications

- IoT device networking and communication protocols
- Fog and Edge Computing Architectures
- Federated learning and distributed machine learning in the fog and on the edge
- Storage and data management platforms for fog/edge
- Energy Efficiency and Sustainability in IoT and Edge Systems
- Security and Privacy in IoT, Fog, and Edge Computing
- Blockchain and Distributed Consensus in Fog, and Edge Systems
- AI-Powered decision making in IoT applications.

Track 5: Quantum Computing and Communications

- Quantum Cryptography
- Quantum Networking
- Topological Quantum Computing
- Quantum-Classical Systems
- Quantum Machine Learning

Author Guidelines and Publication

Authors are required to submit their original research papers in the Springer format using the provided link. Papers should follow the single-page, single-column Springer format (https://typeset.io/formats/springer-conferences/default-format-for-springer-conferences/f8d71f9027f449abb4f73d0a7bf6d340) and must not exceed 12-14 pages. Submissions exceeding this limit will be rejected. Papers should be submitted through the submission link (https://cmt3.research.microsoft.com/NGNDAI2025) within the dates mentioned in the conference schedule.

The proceedings of the International Conference on Next-Generation Networks and Deployable Artificial Intelligence (NGNDAI-2025) will be submitted for consideration to Springer book series (indexed in Web of Science, SCOPUS etc.). Selected and extended versions of research papers will be considered for publication as a Special Issue in Scopus and SCI/SCIE-indexed journals of repute.

Important Dates

Submission Deadline: 15 Feb 2025
Notification of Acceptance: 15 March 2025
Author's Registration: 10 April 2025
NGNDAI-2025 Conference: 18-20 Sep 2025

Registration Fee

Indian Participants from Academic Institutes: INR 11,800 (Included 18% GST)
Indian Industry Participants: INR 14,160 (Included 18% GST)
Foreign Participants (Academic and Industry): USD 300 (Included 18% GST)
Student's Participants: INR 7,080 (Included 18% GST)
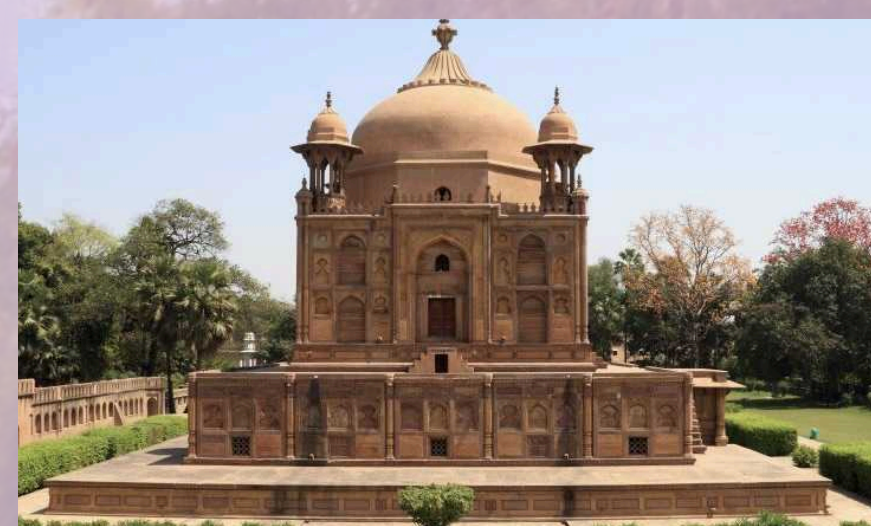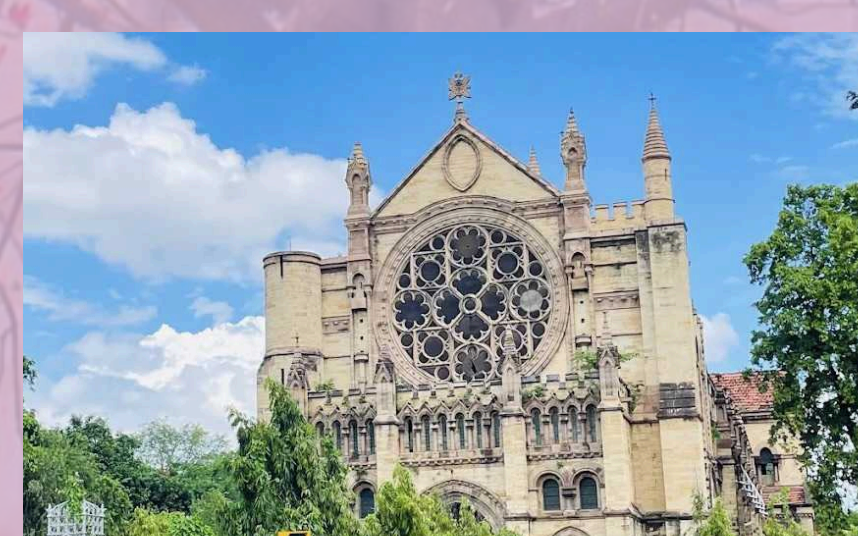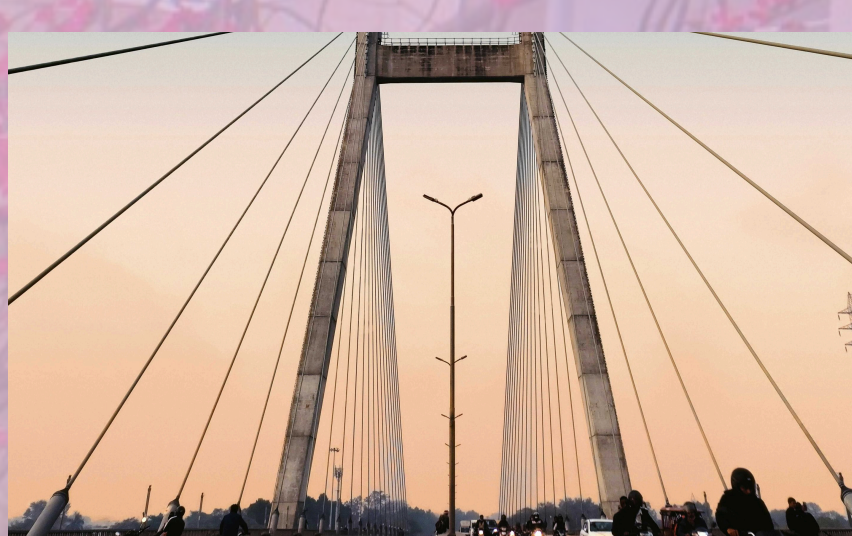
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