



INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND EMERGING TECHNOLOGIES (ICAIET) - 2025

XIM UNIVERSITY, BHUBANESWAR (INDIA)

28TH - 30TH AUGUST 2025

CALL FOR PAPERS

Publications: Accepted papers will be submitted for inclusion in IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

Conference Objectives

The INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND EMERGING TECHNOLOGIES (ICAIET 2025) is dedicated to serving as a premier platform for this purpose. Designed to bring together a diverse group of leading industry experts, academicians, researchers, and practitioners from across the globe, ICAIET 2025 fosters an environment of knowledge exchange and collaboration. The conference aims to accelerate the growth and application of AI and emerging technologies in various domains, highlighting their critical role in driving sustainable development, enhancing efficiency, and improving the quality of life. The objective are to:

- Provide a platform for experts, researchers, and practitioners to present their latest findings in AI and emerging technologies.
- Encourage interdisciplinary collaboration among academia, industry, and research institutions.
- Recognize and award outstanding contributions in the fields of AI and emerging technologies.
- Explore how AI and emerging technologies can contribute to sustainable development goals, such as climate change mitigation, renewable energy optimization, and environmental monitoring.
- Provide networking opportunities for students, faculty, and industry professionals to connect and collaborate.
- Facilitate interactions between researchers, startups, and investors to support the commercialization of innovative ideas.

About institute

XIM University Bhubaneswar, a premier institution known for its academic excellence and innovation, stands as a beacon of holistic education in India. Among its illustrious schools, the School of Computer Science and Engineering (SCSE) shines as a hub for fostering technological proficiency and research-oriented learning. SCSE offers cutting-edge programs designed to equip students with advanced knowledge in areas like artificial intelligence, data science, cybersecurity, and software engineering. With state-of-the-art infrastructure, experienced faculty, and industry collaborations, the school empowers students to excel in both academic and professional domains. SCSE also emphasizes hands-on learning through projects, internships, and participation in national and international competitions, making it a top choice for aspiring technologists and innovators.

IEEE Conference Record: 65052

Important Dates

Full Paper Submission Deadline:	1st Mar 2025
Paper Acceptance Notification:	1st Apr 2025
Camera-Ready Submission:	5th Apr 2025
Early-Bird Registration:	10th Apr 2025
Regular Registration:	25th Apr 2025
Conference Dates:	28th-30th Aug 2025
Submission Link:	Click Here
Conference Website:	Click Here

Chief Patron

- Fr. Antony R. Uvari, S.J., Vice Chancellor, XIM University, India

Patrons

- Fr. S. Antony Raj, S.J., Registrar, XIM University
- Dr. Gopal Krishna Nayak, Professor, XIM University, India

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- Dr. Ashutosh Dutta, Professor and Director, Johns Hopkins University, USA
- Dr. Rudra Mohan Tripathy, Dean, School of Computer Science and Engineering, XIM University, India

Organizing Chair

- Dr. Ashish Kumar, XIM University
- Dr. Devendra Kumar Yadav, XIM University



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CONFERENCE TRACKS

Artificial Intelligence (AI) and Applications

- Overview of foundational and cutting-edge AI techniques.
- Applications in healthcare, robotics, gaming, and more.
- Ethical considerations and fairness in AI implementations.
- Advanced AI algorithms and their practical implementations.
- Exploring reinforcement learning and its use cases.
- Challenges in deploying AI systems in real-world scenarios.
- Integration of AI in smart cities and transportation.

Machine Learning and Data Mining

- Supervised, unsupervised, and reinforcement learning techniques.
- Feature engineering and model optimization strategies.
- Exploring clustering, classification, and regression tasks.
- Data mining methodologies for pattern discovery in large datasets.
- Application of ML in business, finance, and scientific research.
- Tools and libraries for building and training ML models.
- Real-world case studies of ML deployment.

Computer Vision and Image Processing

- Techniques for image recognition, segmentation, and classification.
- Role of deep learning in computer vision advancements.
- Applications in autonomous vehicles, surveillance, and AR/VR.
- Pre-processing techniques like filtering, edge detection, and transformation.
- Challenges in object detection, tracking, and pose estimation.
- Development of real-time vision systems.
- Integrating computer vision with IoT and robotics.

Natural Language Processing (NLP)

- Advances in sentiment analysis, text summarization, and machine translation.
- The role of transformers and attention mechanisms in NLP.
- Sentiment and emotion detection in textual data.
- Applications in chatbots, virtual assistants, and speech recognition.
- Challenges in understanding and generating human-like text.
- Addressing bias and ethical concerns in NLP systems.
- Tools and datasets for NLP research and application.

IoT and Cyber-Physical Systems

- Role of IoT in smart homes, healthcare, and industrial automation.
- Design and optimization of cyber-physical systems.
- Protocols and standards in IoT connectivity and interoperability.
- Challenges in scalability and reliability of IoT networks.
- Integration of edge and fog computing with IoT systems.
- Security concerns in IoT and cyber-physical implementations.

Network Security and Privacy

- Cryptographic techniques for secure communication.
- Advanced persistent threats and mitigation strategies.
- Securing cloud and distributed computing systems.
- Privacy-preserving data sharing and storage mechanisms.
- Intrusion detection systems and their applications.
- Secure authentication and access control mechanisms.
- The role of AI and ML in enhancing cybersecurity.

Sequential, Parallel, Distributed, and Cloud Computing

- Differences between sequential, parallel, and distributed systems.
- Scalability and load balancing in distributed systems.
- Cloud architecture and service models (IaaS, PaaS, SaaS).
- Task scheduling and resource allocation in parallel systems.
- Applications of distributed computing in big data processing.
- Virtualization and containerization in cloud environments.
- Energy efficiency and optimization in computing systems.

SPECIAL TRACKS

Emerging Technologies in Education

- Role of AI in personalized and adaptive learning.
- Gamification and its impact on student engagement.
- Virtual and augmented reality in immersive learning environments.
- Challenges in integrating technology with traditional education systems.
- Applications of blockchain for credentialing and record-keeping.
- Use of data analytics to predict and improve learning outcomes.
- Development of inclusive and accessible educational technologies.

AI in Finance and Business Analytics

- Predictive analytics for financial decision-making.
- AI-based fraud detection systems in banking and e-commerce.
- Optimization of investment portfolios using ML algorithms.
- Applications in credit scoring, risk assessment, and underwriting.
- Chatbots and virtual assistants for customer service in finance.
- Enhancing supply chain management using AI insights.
- Ethical concerns and transparency in AI-driven financial systems.

AI for Sustainable Development and Societal Impact

- Role of AI in addressing climate change and resource management.
- Smart agriculture through AI-powered analytics and robotics.
- Applications in healthcare accessibility and remote diagnostics.
- Addressing inequalities through AI-driven education and job matching.
- Development of sustainable urban infrastructures with AI.
- Ethical considerations in AI-driven societal changes.
- Case studies on AI applications in humanitarian efforts.