First International Conference on Emerging Paradigms in Computing and Informatics (ICEPCI-2027)

20-21 Feb 2027

At Techno Main Salt Lake, Kolkata, West Bengal

Call for Papers

The **First International Conference on Emerging Paradigms in Computing and Informatics (ICEPCI-2027)** invites researchers, academicians, industry professionals, and students to submit original research papers. The conference aims to provide a vibrant platform for sharing innovative ideas, recent developments, and practical solutions in the rapidly evolving fields of computing and informatics.

ICEPCI-2027 encourages interdisciplinary research that advances theoretical foundations, emerging technologies, and real-world applications in computing and informatics. Authors are invited to submit original, unpublished manuscripts presenting significant research contributions.

Host: The conference will be hosted at **Techno Main Salt Lake** and organized by the department of **CSE (AI & ML)** and the department of **CSE (Data Science)**.

Accepted papers must be presented during the conference, fostering collaboration and knowledge exchange among researchers and professionals from both academia and industry.

Researchers and practitioners are warmly invited to contribute and be a part of **ICEPCI-2027**.

Conference Theme

Theme for this year: Influence of Artificial Intelligence in Computing and Communication

Conference Tracks

Track 1:

Intelligent Computing, Artificial Intelligence, and Data-Driven Informatics

Focus: Intelligent algorithms, computational intelligence, analytics, and interdisciplinary applications.

Artificial Intelligence and Expert Systems
Machine Learning and Deep Learning
Generative AI and Large Language Models
Explainable, Trustworthy, and Responsible Artificial Intelligence
Agentic AI and Autonomous Intelligent Systems
Data Science, Big Data, and Advanced Analytics
Data Mining, Web Mining, and Knowledge Discovery
Information Retrieval and Intelligent Search Systems
Image Processing, Computer Vision, and Pattern Recognition
Natural Language Processing and Speech Intelligence
Bioinformatics and Computational Biology
Healthcare Informatics and Intelligent Healthcare Systems
AI-Driven Medical Image Processing and Diagnosis
Predictive Analytics and Computational Healthcare
Intelligent Decision Support and Recommendation Systems
Computational Musicology
Computational Modelling, Simulation, and Optimization
Federated Learning and Distributed Intelligence
Information Systems
AI Applications in Industry, Education, and Sustainable Development

Track 2:

Cybersecurity, Privacy, and Quantum-Resilient Computing

Focus: Secure digital infrastructures, privacy-preserving intelligence, cryptographic innovation, and emerging cyber threats.

Information Security and Cybersecurity
Network Security and Secure Communication
Artificial Intelligence for Cybersecurity
Machine Learning for Threat Intelligence and Anomaly Detection
Malware Analysis, Detection, and Prevention
Intrusion Detection and Prevention Systems
Digital Forensics and Cybercrime Investigation
Privacy, Trust, and Identity Management
Authentication Protocols
RSA Algorithm
Cloud, Edge, and Distributed Systems Security
Internet of Things Security and Critical Infrastructure Protection
Blockchain Technologies and Decentralized Security
Cryptography and Modern Cryptographic Protocols
Post-Quantum Cryptography and Quantum-Resistant Security
Quantum Cryptography and Quantum Key Distribution
Privacy-Preserving Data Mining and Secure Data Analytics
Federated Learning, Secure AI, and Adversarial Machine Learning
Secure Multi-Party Computation and Homomorphic Encryption
Zero-Trust Architectures and Access Control
Responsible AI Security, Model Robustness, and Data Protection
Security and Privacy in Emerging Digital Ecosystems
Securing Digital Infrastructure
5G and 6G Network Security

Track 3:

Advanced Networking, Distributed Computing, and Quantum Communication

Focus: Next-generation communication infrastructures, connected intelligence, distributed architectures, and quantum-enabled networks.

Computer Networks and Advanced Network Architectures
Communication Networks and Wireless Communication
5G-Advanced, 6G, and Future Communication Technologies
Cloud, Fog, and Edge Computing
Distributed Computing and High-Performance Computing
Internet of Things (IoT) and Industrial Internet of Things (IIoT)
Internet of Medical Things (IoMT)
Internet of Everything and Smart Connected Systems
Quantum Computing Architectures and Applications
Quantum Communication and Quantum Networks
Quantum Error Correction
Software-Defined Networking and Network Function Virtualization
Network Function Automation and Intelligent Network Management
AI-Driven Networking and Autonomous Networks
Network Analytics, Traffic Prediction, and Performance Optimization
Social Network Analysis and Computational Social Systems
Mobile Computing and Ubiquitous Computing
Vehicular Networks and Intelligent Transportation Systems
Wireless Sensor Networks and Smart Environments
Digital Twins and Cyber-Physical Systems
Blockchain-Enabled Distributed Networks
Information Centric Networks
Energy-Efficient, Resilient, and Sustainable Communication Systems
Internet Protocols

Important Dates

Conference Announcement & Website Available: 18 April 2026

Call for Paper Release: 15 May 2026

Paper Submission Starts: 15 May 2026

Paper Submission Closes: 15 December 2026

Review Results Available: 15 January 2027

Registration Window: 16 January-7 February 2027

Conference Dates: 20–21 February 2027