

**1st International conference on Advancements in Computational Intelligence
and Machine Learning)
ICACIML-2026
26th – 27th March, 2026**

Organized by

Department of Computer Science & Engineering (CSE)

Department of Artificial Intelligence & Data Science (AI&DS)

Center of Excellence in Blockchain

CALL FOR PAPERS

Special Session on

**Cross-Domain Intelligent Computing Using Artificial Intelligence and
Blockchain**

Session Chair(s):

Dr. Amrutanshu Panigrahi, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, amrutanshupanigrahi@soa.ac.in , +91-7070784109

Dr. Abhilash Pati, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, abhilashpati@soa.ac.in, +91 9090743957

Dr. Bibhuprasad Sahu, Symbiosis Institute of Technology, Hyderabad Campus, Symbiosis International University, Pune, India, prasadnikhil176@gmail.com, +91 9861602690

Theme of Session:

Cross-Domain Intelligent Computing Using Artificial Intelligence and Blockchain focuses on the development of intelligent computing frameworks applicable to various application domains without domain-specific limitations. Artificial Intelligence equips machines with the ability to learn from complex datasets, reason, and adapt, while Blockchain introduces decentralization, transparency, immutability, and trust into computing. At a high level, a brief characterization of how the integration of the technologies enables intelligent systems that are secure, reliable, and scalable, may be used in heterogeneous and distributed environments.

Research related to AI-based models and algorithms built on blockchain-based infrastructures for data integrity, secure collaboration, model accountability, and decentralized decision-making. Discussion focuses on generalized architectures, methodologies, and evaluation strategies that are useful in various application domains, including healthcare, the financial sector, agriculture, smart cities, industrial automation, and cyber-physical systems.



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The track brings together the latest theoretical advances, systems-level designs and practical implementations to demonstrate how cross-domain intelligent computing can be achieved by intelligent synergy of AI and Blockchain.

Topics of Interest:

We invite original (un-published) research contributions based on the above-mentioned theme including following topics **but not limited to**:

- Artificial Intelligence Models for Cross-Domain Intelligent Computing
- Machine Learning and Deep Learning Techniques under the AI Paradigm
- Blockchain Architectures for Intelligent and Decentralized Systems
- AI and Blockchain for Secure and Trustworthy Computing
- Privacy-Preserving and Ethical Artificial Intelligence
- Explainable and Trust-Centric Intelligent Systems
- Federated and Distributed Learning Using Blockchain
- Intelligent Data Analytics with Blockchain-Based Data Integrity
- AI and Blockchain for Edge, Cloud, and Distributed Computing
- AI, NLP, and Blockchain for Cybersecurity Applications
- AI- and Blockchain-Based Security for IoT and Cyber-Physical Systems

Paper Submission Process:

Please submit your paper (in word/pdf format) at

Email: amrutanshupanigrahi@soa.ac.in

with 'Name of Special Session: ' mentioned in the subject line.

Program Committee:

Dr. Tripti Swarnkar, Department of Computer Applications, NIT Raipur

Dr. Seifedine Kadry, Department of Data Science, Noroff University College, Norway

Dr. Debasish Swapnesh Kumar Nayak, Department of Computer Science and Engineering, IIT Bhilai, India

Dr. Prince JainParul University, Vadodara, Gujarat, India

Dr. Mohammed Gouse, Catholic University, Erbil



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**For any further queries related to this special session, please contact the session chairs at:
E-mail ID: amrutanshupanigrahi@soa.ac.in
Mobile No.: +91-7070784109**

**Special Session on
Advancements in Computational Intelligence and Machine Learning**

Session Chair(s):

Dr. Tejinder Kaur M.M. Institute of Computer Technology & Business Management Maharishi Markaneshwar (Deemed to be University) Mullana Ambala-Haryana 133207, India, jattidhillon55@gmail.com, [7696779388](tel:7696779388)

Theme of Session:

Computational Intelligence (CI) and Machine Learning (ML) form the backbone of modern Artificial Intelligence. They enable systems to **analyze data, learn patterns, reason under uncertainty, and optimize decisions** without explicit programming for every task. Recent advancements in algorithms, high-performance computing, big data, and cloud/edge platforms have accelerated innovation, making CI and ML applicable across diverse domains.

This session explores **state-of-the-art research, emerging models, and real-world deployments** that demonstrate how intelligent computational systems are transforming technology and society.

Computational Intelligence includes neural networks, fuzzy logic, evolutionary computing, and swarm intelligence—techniques inspired by human reasoning and nature. These approaches are highly effective in solving complex, uncertain, and nonlinear real-world problems. Machine Learning focuses on enabling systems to automatically learn from historical data and improve performance over time. Key areas include supervised and unsupervised learning, deep learning, reinforcement learning, explainable AI, and generative AI.



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Recent developments include deep neural architecture, transformer-based models, automated machine learning, federated learning, and hybrid CI-ML systems. These breakthroughs enable intelligent automation, predictive analytics, enhanced decision support, and real-time adaptive control systems.

Topics of Interest:

We invite original (un-published) research contributions based on the above-mentioned theme including following topics **but not limited to**:

- Supervised, unsupervised and reinforcement learning
- Transfer learning and domain adaptation
- Generative AI and foundation models
- Explainable and interpretable AI
- Federated and distributed learning
- AutoML and optimization techniques
- Neural networks and deep learning
- Fuzzy logic and soft computing
- Evolutionary algorithms and genetic computing
- Swarm intelligence and bio-inspired systems

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