



ICAIN-2025

International Conference on Artificial Intelligence and Networking

Organized by
University of Stirling - RAK Campus, UAE

10th - 11th October 2025

***** **CALL FOR PAPERS** *****

SPECIAL SESSION ON

AI and ML for Cyber Threat Detection and Prevention – Methods, Tools, and Case Studies

SESSION ORGANIZERS:

Prof (Dr). Kamal Kundra, Professor (IT & AI/ML)& COE, New Delhi Institute of Management, New Delhi, India.
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SESSION DESCRIPTION:

The growing complexity and volume of cyber threats necessitate intelligent, adaptive solutions. This session focuses on how Artificial Intelligence (AI) and Machine Learning (ML) are being leveraged to detect, prevent, and mitigate cyberattacks in real-time. It welcomes research on algorithmic models, frameworks, applications, and successful deployments of intelligent cybersecurity systems. Special emphasis will be placed on **case studies from academia, industry, and government sectors** to demonstrate real-world applicability and impact.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

- AI and ML for Intrusion Detection and Prevention Systems (IDPS)
- Predictive Threat Intelligence using Deep Learning
- Case Studies on AI-driven Cybersecurity Implementations
- Federated Learning for Privacy-Preserving Threat Analysis
- AI for Insider Threat and Malware Detection
- Security in Smart Devices and IoT Ecosystems
- Cyberattack Classification and Anomaly Detection
- Blockchain-based Secure Authentication

- Explainable AI in Cybersecurity
- Adversarial Machine Learning and Mitigation Strategies

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this particular theme session on **AI and ML for Cyber Threat Detection and Prevention – Methods, Tools, and Case Studies**

on or before 30th May 2025. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at <https://www.icain-conf.com/downloads>. All submitted papers will be reviewed on a double-blind, peer-review basis.

NOTE: While submitting a paper in this special session, please specify [Session Name] at the top (above paper title) of the first page of your paper.

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