ICAIN-2025
International Conference on Artificial Intelligence and Networking

06th-07th October 2025
Organized by
BITS Pilani, Dubai Campus
In association with
Indian Institute of Information Technology, Allahabad

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

SPECIAL SESSION ON

AI in Cybersecurity: Innovations, Challenges, and Emerging Trends

SESSION ORGANIZERS:

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EDITORIAL BOARD: (Optional)

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SESSION DESCRIPTION:

In the digital age, **Artificial Intelligence (AI)** has become both a powerful tool for enhancing cybersecurity and a new frontier for emerging threats. This session explores **cutting-edge applications of AI in safeguarding digital ecosystems**, from real-time threat detection to automated incident response. How **machine learning models** identify and neutralize cyberattacks before they cause damage. The growing challenge of **adversarial AI**, including deepfakes, model poisoning, and data manipulation. Strategies for securing **IoT, cloud, and edge computing environments** with AI-based defenses. The convergence of **AI, blockchain, and quantum technologies** for next-generation security. Ethical, legal, and privacy considerations in AI-driven cybersecurity.

RECOMMENDED TOPICS:

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

- AI-Driven Threat Detection and Prevention
- Adversarial AI and Security Risks
- Ethics, Privacy, and Compliance in AI Security
- Cybersecurity for IoT, Cloud, and Edge AI
- Blockchain and AI Integration for Security
- Recent Trends and Future Directions in AI Cybersecurity
- AI-Driven Fraud Detection & Financial Security
- Future of AI Cybersecurity: Quantum & Beyond
- Securing smart grids, transport systems, and healthcare networks

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this particular theme session on **[session name]** *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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