



# International Conference on Data-Processing and Networking (ICDPN-2025)

Date: 7th – 8<sup>th</sup> November, 2025

ORGANISED BY: Institute of Technology and Business in České Budějovice, Near  
Prague, Czech Republic, Europe (Venue).

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

## SPECIAL SESSION ON

## AI-Powered Cybersecurity: Advancements, Challenges, and Future Trends

### SESSION ORGANIZERS:

Dr. Monica Bhutani, Associate Professor, Bharati Vidyapeeth's College of Engineering, New Delhi, 110063, INDIA (Ph.: [09220338863](tel:09220338863))

### SESSION DESCRIPTION:

With the rapid adoption of AI and machine learning in cybersecurity, organizations are witnessing a transformation in threat detection, response automation, and risk mitigation. This special session aims to bring together researchers, practitioners, and industry experts to discuss novel AI-driven techniques in cybersecurity, challenges in adversarial attacks, bias in AI security models, and the ethical considerations of automated security systems. The session will explore how AI can enhance cybersecurity while addressing potential vulnerabilities introduced by AI-powered solutions.

### RECOMMENDED TOPICS:

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

- AI-driven threat intelligence and predictive cybersecurity
- Deep learning for intrusion detection and prevention systems
- Generative AI in cyberattack simulations and penetration testing
- Adversarial attacks and AI model robustness in cybersecurity
- Ethical and legal considerations in AI-powered security
- AI applications in fraud detection and financial cybersecurity
- Zero-trust architecture and AI-driven network security
- Federated learning for secure and decentralized AI models
- Blockchain and AI integration for enhanced cybersecurity

### SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **[AI-Powered Cybersecurity: Advancements, Challenges, and Future Trends]** *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.icdpn-conf.com/Downloads>. All submitted papers will be reviewed on a double-blind, peer-review basis.

**IMPORTANT NOTE:** While submitting the paper in this special session, please specify **[AI-Powered Cybersecurity: Advancements, Challenges, and Future Trends]** at the top (above paper title) of the first page of your paper and **email the paper ID on:** [monica.bhutani@bharatividyaapeeth.edu](mailto:monica.bhutani@bharatividyaapeeth.edu).

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