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

Date: 7th – 8th November, 2025

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

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

SPECIAL SESSION ON
Protecting the Internet of Things: Challenges and Solutions

SESSION ORGANIZERS:
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SESSION DESCRIPTION:
The Internet of Things (IoT) is everywhere, connecting our homes, cars, industries, and even cities. Although this connectivity makes life easier and smarter, it also exposes people to new types of cyberthreats. Given the billions of devices connected to the internet, even a minor vulnerability can lead to serious security issues.

The purpose of this special session is to generate dialogue and exchange solutions regarding one of the most important issues of our day , How can we maintain the security, reliability, and resilience of IoT systems? Researchers, experts, and creatives working on useful and progressive concepts to safeguard IoT environments are welcome to submit their ideas. Every new viewpoint matters, whether it is in the form of AI-powered defense systems, lightweight security protocols.

We welcome contributions that explore not only the technical side of IoT security but also real-world applications, standards, and ethical considerations. Whether your work is about securing smart healthcare devices, strengthening industrial IoT systems, or defending connected vehicles, this is the right platform to share and collaborate.

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

- New methods for protecting IoT devices and networks
- AI and machine learning in IoT threat detection
- Blockchain and decentralized security solutions
- Privacy-preserving mechanisms for connected environments
- Trust, authentication, and access control in IoT
- Securing IoT with edge and fog computing
- Case studies: Smart homes, smart cities, healthcare, transportation
- Regulations, ethics, and best practices in IoT cybersecurity

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **[Protecting the Internet of Things: Challenges and Solutions]** *on or before* **[30th September 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.

NOTE: While submitting 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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