INDEA-2026
International Conference on
Next-Generation Data Engineering and Analytics
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On
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************** CALL FOR PAPERS ***************

SPECIAL SESSION ON
Challenges and Innovations in Internet of Things Security

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 cyber threats. 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 view point matters, whether it is in the form of AI-powered defense systems or 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 **[Challenges and Innovations in Internet of Things Security]** *on or before* **[30th March 2026]**. 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.indea-conf.uk/ . All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify [**Challenges and Innovations in Internet of Things Security**] at the top (above paper title) of the first page of your paper.

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