

## Special Issue

# AI-Driven Security and Privacy for IIoT Applications

### Message from the Guest Editor

We invite contributions that address both AI's vulnerabilities in IIoT environments and its potential to fortify these environments against evolving cyber threats, with a focus on overcoming the data scarcity challenges inherent in IIoT security. The topics of interest include, but are not limited to, the following:

- Few-shot learning for efficient IIoT intrusion detection;
- Zero-shot learning for novel threat detection in IIoT;
- AI-driven methods for anomaly detection and threat mitigation in IIoT networks;
- Adversarial machine learning attacks and defenses in IIoT systems;
- Addressing IIoT security data scarcity using few/zero-shot learning techniques;
- Comparative analysis of few/zero-shot learning versus traditional machine learning and deep learning in IIoT;
- Developing novel few/zero-shot learning models for IIoT environments with limited data and novel threats;
- Robustness and resistance of AI models against random and adversarial perturbations in IIoT networks;
- Federated learning and other privacy-preserving AI techniques for IIoT data processing;
- AI-driven security solutions in smart cities, healthcare IIoT, industrial IIoT, and other domains.

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### Guest Editor

Prof. Dr. Jong Hyuk Park

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### Deadline for manuscript submissions

closed (30 August 2025)



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### Message from the Editor-in-Chief

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### Editor-in-Chief

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