

Call for Papers
Special Session on Trustworthy and Intelligent Edge of Things (TIEoT) for Secure and Reliable Applications
(in conjunction with the 12th IEEE WF-IoT 2026)
<http://tieot.org/>

Aims and Scope:

The Trustworthy Intelligent Edge of Things (TIEoT) is a paradigm of the Internet of Things (IoT) that offsets the workload of machine learning (ML) models and Large Language models (LLM) and security mechanisms to the edge instead of end devices. TIEoT is a new IoT approach that uses ML models and security mechanisms at the edge instead of end devices. It provides AI-driven security-extension implementation for Internet services and applications close to end users. TIEoT uses data-driven TinyML and TinyLLM models to learn patterns and identify normal and abnormal ones, which improves security. It also enables AI-enabled networking operations and AI-driven Internet applications and services provisioning with security extensions. The hardware and operations are managed by TinyML-based frameworks, and TinyLLM models control the allocation of resources and technologies.

The security aspect in TIEoT plays a great role in maintaining secure and privacy-protected operations with applications or services data. The detection of potential threats and attacks that might affect the operations and the performance of offered applications and services should be achieved efficiently. This special session invites prospective authors from academia and industry to submit original papers on topics that help in the wide employment of TIEoT. Such topics include, but are not limited to:

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| <ul style="list-style-type: none">• Network and protocol architectures for TIEoT.• 5G-6G-based communication architectures for TIEoT.• Security architectures for secure data transfer and processing.• AI-based anomalies and threats detection.• TinyML and TinyLLM for secure TIEoT.• Privacy-preserved architectures in TIEoT. | <ul style="list-style-type: none">• Computing architectures for TIEoT.• Data management architectures.• Trust management techniques.• Trustworthy communication models of TIEoT devices.• Resource allocation and management in networked TIEoT systems.• Performance analysis of IoT applications and services provisioning. |
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Paper Submission

All final submissions should be written in English with a maximum paper length of six (6) in length (10-point font) and must be written in English and follow the instructions provided for the main Conference. Papers should be submitted using EDAS at: <https://edas.info/newPaper.php?c=34901&track=138866>

More information on paper formatting is available at:

<https://www.ieee.org/conferences/publishing/templates.html>

Important Dates

- Paper submission deadline: July 12, 2026
- Author notification: August 15, 2026
- Camera-ready submission: August 30, 2026

Organizing Chairs

- Bassem Mokhtar (Ph.D., SMIEEE), College of Information Technology, United Arab Emirates University, Al Ain, UAE (bassem.mokhtar@uaeu.ac.ae).
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- Mohammed M. Alani (Ph.D., SMIEEE, SMACM), Rochester Institute of Technology – Dubai, Dubai, United Arab Emirates. (m@alani.me).