KGSWC 2025
IWSIoT 2025 - 4th International Workshop on Semantic IoT

CALL FOR PAPERS

WORKSHOP THEME

The **Semantic Internet of Things (SIoT)** refers to the integration of semantic technologies into the Internet of Things (IoT) ecosystem. Unlike conventional IoT, which primarily emphasizes device connectivity and data exchange, SIoT introduces meaning, structure, and contextual understanding to the data generated by IoT devices. Semantic technologies; such as ontologies, linked data, and knowledge graphs; enable systems to not only exchange data but also interpret, reason, and derive knowledge from it.

ORGANIZERS

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WORKSHOP SCOPE

IWSIoT welcome submission of original and high-quality research contributions addressing the topics (not limited to):

- Semantic Reasoning and Decision-Making in IoT environments
- Data Interoperability and Integration across heterogeneous IoT platforms
- Context-Awareness and Ambient Intelligence for adaptive IoT services
- Semantic Stream Processing and real-time knowledge extraction
- Privacy, Trust, and Security in semantic-enabled intelligent IoT systems
- IoT Systems and Architectures for semantic data acquisition, storage, and large-scale processing
- Semantic Artificial Intelligence (AI) and Machine Learning for IoT data understanding
- Ontology Engineering and Knowledge Graphs for IoT data modeling and representation
- Human–IoT Interaction and user-centric semantic IoT solutions
- Semantic Digital Twins and virtual representations of physical IoT systems

IMPORTANT DATES

WORKSHOP PAPER SUBMISSION DUE
31 October 2025

WORKSHOP PAPER NOTIFICATIONS
15 November 2025

WORKSHOP PAPER CAMERA-READY VERSIONS DUE
20 November 2025

WORKSHOP
25 November 2025

SUBMISSION GUIDELINES

- Full research papers (10-15 pages): Finished or consolidated R&D works, to be included in one of the Workshop topics
- Short papers (4-6 pages): Ongoing works with relevant preliminary results, opened to discussion.
- At least one author of each accepted paper must register for the workshop, in order to present the paper, there, and to the conference. For further instructions please refer to the KGSWC 2025 page. Papers are to be submitted through the workshop's EasyChair submission page: link

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