

Special Issue

Intent-Based Networking for IoT Systems

Message from the Guest Editors

This Special Issue (SI) aims to provide a platform for researchers and practitioners from both academia and industry to present new theories, architectures, and innovative mechanisms in the field of IBN for IoT Systems. The SI will cover recent advances and contributions in, but not limited to, the following topics:

- IBN-enabled network slicing and orchestration for IoT systems;
- Intent translation and assurance mechanisms in IoT environments;
- AI/ML-driven intent interpretation, assurance, and policy optimization;
- Security, trust, and privacy management through IBN;
- Cross-domain coordination of edge-cloud-IoT infrastructures using IBN;
- Experimental platforms, prototypes, and testbeds for IBN in IoT;
- Emerging IBN applications and use cases (e.g., in Industry 5.0, smart cities, digital twins).

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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