

Special Issue

Intelligent Industrial Internet of Things: From Theory to Applications

Message from the Guest Editors

The Intelligent Industrial Internet of Things (IIoT) is transforming industrial ecosystems by integrating machines, devices, sensors, and actuators with digital platforms, networks, and data-driven applications. Enabled by low-power sensing, edge computing, AI, cybersecurity, and advanced connectivity, IIoT is driving diverse industrial innovations.

Yet, a gap remains between academic research and industrial needs, with methods and tools often lagging behind real-world challenges. Bridging this gap is essential to prepare professionals and researchers with skills aligned to industry demands.

This Special Issue seeks cutting-edge research, practical applications, and forward-looking perspectives in Intelligent Industrial IoT. Topics include: training methods; AI in IIoT; intelligent acoustic monitoring; edge/fog computing; on-device processing; cybersecurity; IoT for nature-based solutions; quantum networking; data-driven applications; IIoT for health; and Web of Things

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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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