

Special Issue

Industrial Networks of the Future Across the Edge-to-Cloud Continuum

Message from the Guest Editors

Modern industrial networks are undergoing a profound transformation driven by the convergence of digitalization, automation, and connectivity. The rise of Industry 4.0, the Industrial Internet of Things (IIoT), Cyber-Physical Systems (CPS), and intelligent edge-cloud integration is pushing traditional industrial communication paradigms to evolve into highly adaptable, software-defined infrastructures. These infrastructures must meet diverse and stringent requirements such as ultra-low latency, real-time responsiveness, high reliability, energy efficiency, and security. The adoption of 5G/6G technologies, Time-Sensitive Networking (TSN), network slicing, and AI-driven automation is further accelerating this evolution. Industrial networks now span heterogeneous environments, ranging from resource-constrained edge and fog computing nodes to powerful cloud backends. This complexity demands new strategies for network design, orchestration, performance optimization, and security, all while supporting mission-critical applications in industrial applications such as manufacturing, logistics, etc.

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Message from the Editor-in-Chief

I encourage you to contribute research and comprehensive review articles for publication in Journal of Sensors and Actuator Networks (JSAN), an international, open access journal which provides an advanced forum for research findings in areas of sensors and actuators. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sensors and actuators and fostering applications of sensor-based measurements and effective actuator incorporation.

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