# Special Issue

# State-of-the-Art in Sensor and Actuator Networks: Current Status and Future Possibilities

### Message from the Guest Editors

This Special Issue solicits novel research papers on the current state-of-the-art and future possibilities of WSAN, aiming to provide a comprehensive view of the current status of WSAN and set the future direction of WSAN research. The topics include but are not limited to:

- System architecture, operating systems, and network hardware for sensor/actuator networks;
- Smart and intelligent sensing and actuation;
- Cloud- or edge-based services;
- Industry 4.0 and embedded wireless sensor/actuator systems;
- Wireless sensor/actuator networks (WSAN) for tactile Internet;
- Experimental facilities and test beds for sensor/actuator networks;
- Blockchain technologies and their applications to sensor/actuator networks;
- Internet-of-Things-based WSAN;
- Quality of WSAN services and experiences;
- WSAN and next-generation networks (5G, 6G, etc.);
- Applications of WSAN in farming, horticultural, vehicular, and mobile systems; smart cities, manufacturing, health and medical care; environment and wildlife;
- WSAN as cyberphysical systems;
- WSAN reliability, trust, security, and privacy;
- Software-defined WSAN systems and infrastructure;
- Protocols and middleware for sensor/actuator networks.

### Guest Editors

Prof. Dr. Taieb Znati

Prof. Dr. Lei Shu

Prof. Dr. Amiya Nayak

Dr. Sye Loong Keoh

Dr. Davide Patti


## Journal of Sensor and Actuator Networks

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# About the Journal

## 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.

## Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 24.4 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2026).