Special Issue

Accurate Synchronization in IoT

Message from the Guest Editors

Internet of Things (IoT) combined with Wireless Sensor Networks (WSN) have experienced a great evolution in the last decade, opening the door to new and enhanced applications that in some scenarios can require high accurate synchronization.

Due to their poor performance and quality of their clocks, usually time synchronization is in the order of milliseconds and a higher precision is a great challenge. However, using advanced synchronization protocols, emergent communication technologies, such as Ultra Wide Band (UWB), and/or tuning slightly these nodes, we can achieve this time accuracy. This Special Issue on "Accurate synchronization in IoT" aims to gather all these recent developments and advances to share with the research community.

Topics of interest include but are not limited to the following areas:

- Ultra Wide Band communications
- IoT applications requiring accurate synchronization
- Network timing
- Synchronization protocols
- Modulations and symbol correlation
- IEEE 802.15.4 transceivers
- Open source solutions
- Real deployments with high synchronization
- Alternative solutions to high synchronization

Guest Editors

Dr. Santiago Felici-Castell Department of Computer Science, ETSE, Universitat de València, 46100 Burjassot, Valencia, Spain

Dr. Juan J. Perez-Solano

Computer Science Department, University of Valencia, 46010 Valencia, Spain

Deadline for manuscript submissions

closed (30 September 2021)



Journal of Sensor and Actuator Networks

an Open Access Journal by MDPI

Impact Factor 4.2 CiteScore 9.4



mdpi.com/si/61808

Journal of Sensor and Actuator Networks Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 jsan@mdpi.com

mdpi.com/journal/

jsan





Journal of Sensor and Actuator Networks

an Open Access Journal by MDPI

Impact Factor 4.2 CiteScore 9.4



jsan



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

Prof. Dr. Lei Shu 1. College of Artificial Intelligence, Nanjing Agricultural University, Nanjing 210031, China 2. School of Engineering, College of Science, University of Lincoln, Lincoln LN6 7TS, UK

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), dblp, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Computer Science, Information Systems) / CiteScore - Q1 (Control and Optimization)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.6 days after submission; acceptance to publication is undertaken in 5.3 days (median values for papers published in this journal in the first half of 2025).