Special Issue

Federated Learning: Applications and Future Directions

Message from the Guest Editors

This Special Issue aims to collect several novel contributions and research experiences regarding federated learning studies and applications from different research communities concerning different but complementary solutions and proposals to mitigate issues and optimize Federated Learning algorithms. The topics of the Special Issue include (but are not limited to):

- Advances, novel issues, and open challenges in federated learning;
- Federated learning trust policies and strategies;
- Security concerns with federated learning;
- Performance evaluation methods, metrics and tools of federated learning systems;
- Performance optimization of federated learning models;
- Privacy concerns and federated learning;
- Case Studies and applications of federated learning;
- Federated learning frameworks and tools employment and comparisons;
- Federated learning and Blockchain;
- Federated learning for IoT;
- Federated learning for smart grids;
- Federated learning for energy efficiency In IoT;
- Federated learning and graph-based approaches for fraud detection;
- Federated learning for intrusion detection In IoT.

Guest Editors

Dr. Giovanni Paragliola

Dr. Laura Verde

Dr. Fiammetta Marulli

Dr. Rosario Catelli

Deadline for manuscript submissions

31 December 2025

Journal of Sensor and Actuator Networks

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 9.4

mdpi.com/si/164132

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

mdpi.com/journal/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).

MDPI