



## Federated Learning: Applications and Future Directions

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Deadline for manuscript  
submissions:

**closed (31 December 2025)**

### 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.





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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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