Special Issue

Edge Intelligence for Internet of Things: Architecture, Privacy, and Applications

Message from the Guest Editors

In recent years, the integration of advanced smart sensors, edge computing and artificial intelligence has jointly resulted in an emerging research direction known as "Edge Intelligence (EI)" which also boosts the development of the IoT. In the Edge Intelligent environments, data are collected by sensors and other edge devices with limited resources to deploy protection mechanisms, which make them prone to diverse security and privacy risks. Federated Learning (FL), as a distributed machine learning paradigm, has been proved to provide both privacy protection and performance improvement for edge computing and edge intelligence. With this Special Issue, the researchers are encouraged to further explore the potential of FL that can be applied to enhance and popularize Edge Intelligence. The interested topics include but not limited to

- Novel paradigms for performance improvement of Edge Intelligence.
- Exclusive privacy concerns in existing FL paradigms, especially considering limited resources in IoT scenarios.
- Sensor-driven Edge Intelligence applications, like sports management, choreography arts, education, supply chain, etc.

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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