Special Issue

Edge Computing Architectures in Industry 4.0

Message from the Guest Editors

The fourth industrial revolution brings with it an ecosystem of enabling technologies such as cyberphysical systems, robotics, cybersecurity, big data analytics, Artificial Intelligence, additive manufacturing, and the Industrial Internet of Things. However, various challenges and limitations arise when sending data to the cloud, such as the high energy consumption of IoT devices or the challenges regarding the security and privacy of the data transferred. In this sense, Edge Computing architectures allow pre-processing and filtering of the data being transferred to the cloud, reducing costs, avoiding security problems, and allowing machine learning models to be run at the edge of the network with lower latency and higher service availability. For this purpose, this Special Issue will be focused on but not limited to the following topics:

- Innovative edge computing architectures;
- Industrial Internet of Things and edge computing;
- Machine learning at the edge in Industry 4.0 scenarios;
- Edge computing and cyber-physical systems;
- Internet of Robotic Things and edge computing;
- Novel applications of edge computing and IoT in Industry 4.0 scenarios

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