Special Issue

Applications of Fog Computing and Edge Computing in IoT Systems

Message from the Guest Editors

The nature of fog and edge computing devices is evolving as a result of developments in the Internet of Things (IoT). A perfect storm has formed within the IoT ecosystem due to the availability of novel sensor interfaces, effective low-power digital processors, and high-bandwidth low-power communication protocols. A growing breadth of capabilities needs to be supported by next-generation Internet of Things end-nodes, including multisensory data processing and analysis, complicated system control schemes, and ultimately artificial intelligence. This Special Issue seeks to give a place for discussing various facets of edge computing and IoT systems. Subjects of interest include, but are not restricted to:

- Framework, and models for fog/edge-computing-enabled IoT systems;
- Resource management and computational offloading for edge-computing-enabled IoT systems;
- Machine learning, deep learning and federated learning for edge-computing-enabled IoT systems;
- Security and privacy for edge-computing-enabled IoT systems;
- Traffic monitoring and video analytics with edge-computing-enabled IoT systems;
- Application case studies for fog/edge-computing-enabled IoT systems;

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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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