Special Issue

Application of Machine Learning for Sensors Network Resource Management

Message from the Guest Editors

Recently, researchers have advanced the study of Network Intrusion Detection, Network Traffic Optimization, Fault Detection, Network Resource Management, and QoS Management utilizing various ML techniques ranging from reinforcement learning to federated learning. As an example, machine learning algorithms can be used to analyze network traffic and detect anomalies or suspicious activities that may indicate an intrusion or malicious behavior. By analyzing historical data, machine learning algorithms can identify patterns in network traffic, predict network congestion, and optimize routing protocols to ensure efficient data transmission. Therefore, the editors seek original submissions on the following topics: FL for network resource management; ML for network traffic and content analysis; resource management using ML for fog, edge and cloud computing; network traffic prediction for resource allocation; QoS and energy management of network resources; identifying anomalous traffic patterns in IoT; and enabling blockchain-based applications for large-scale networks.

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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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