Special Issue

Machine Learning in UAV Remote Sensing

Message from the Guest Editors

This Special Issue aims to explore the cutting-edge advancements in the field of machine learning (ML) applied to unmanned aerial vehicle (UAV) remote sensing, revolutionizing the capabilities of sensor technology. UAVs equipped with remote sensing instruments have emerged as powerful tools for data acquisition in various domains, including environmental monitoring, precision agriculture, disaster management, and infrastructure inspection. By leveraging ML techniques, these UAV-based sensing systems can unlock unprecedented potential for data analysis, interpretation, and decision making. The Special Issue will feature research articles and reviews that highlight the fusion of machine learning algorithms with UAV remote sensing technologies. Topics of interest include, but are not limited to, deep learning for image classification and object detection, data fusion techniques for multi-sensor integration, anomaly detection and change detection algorithms, reinforcement learning for autonomous UAV navigation, and cloud-based ML frameworks for large-scale data processing.

Guest Editors

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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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