Special Issue

UAV Imagery and Its Applications Using Artificial Intelligence Techniques and Explainability-Based Models

Message from the Guest Editor

This Special Issue will focus on the development of artificial-intelligence-based models for several environmental applications including but not limited to natural hazard management, urban planning, and urbanization problems. The availability of higher resolution images captured from UAV has provided new directions in several fields, and therefore, there is a need to build more robust and advanced AI-based models. These models should provide better solutions to existing environmental issues ranging from developing novel architectures and its optimization to explaining the model outcomes. UAV-based AI models have the benefit of automatic processing owing to shorter temporal resolution, which would learn from historic experiences and provide solutions to the fast-changing environment and goals. The tasks in the UAV–AI system are interesting, each being valuable in a specific domain, with an aim to better explain the model results, and providing a reasonable explanation of the results, thereby achieving the ultimate goal of explainable AI. For more information, please visit: mdpi.com/si/85333

Guest Editor

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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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