Special Issue

AI-Driven Remote Sensing Image Processing and Pattern Recognition

Message from the Guest Editors

The field of remote sensing imaging science is undergoing a transformative era, driven by advancements in artificial intelligence, sensor technology, and computational power. This Special Issue, "AI-Driven Remote Sensing Image Processing and Pattern Recognition," seeks to highlight cutting-edge research and comprehensive reviews that address the evolving landscape of extracting meaningful information from complex remote sensing image data.

This Special Issue aims to focus on novel methodologies that enhance the capabilities of remote sensing image analysis systems. Topics of interest include, but are not limited to, the following: Deep learning architectures (CNNs, transformers, GANs) for remote sensing image segmentation, remote sensing image detection, and remote sensing image classification; explainable AI (XAI) for interpretable model decisions; multi-modal and cross-domain remote sensing data fusion; and robust algorithms for low-quality or adversarial data. A key emphasis will be on practical challenges such as remote sensing data efficiency, model generalization, real-time processing, and integration with emerging imaging modalities.

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About the Journal

Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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