Special Issue

Intelligent Processing and Analysis of Multi-Spectral UAV Remote Sensing Images

Message from the Guest Editors

Unmanned aerial vehicles (UAVs) equipped with multispectral sensors have completely transformed remote sensing technology, enabling it to achieve high spatial resolution, high temporal density, and low-cost data collection. These advancements are of vital importance for applications such as precision agriculture, environmental monitoring, disaster assessment, resource survey, and urban planning. In the early stage of UAV application, it was limited to basic aerial mapping. With the development of sensor technology, artificial intelligence, and edge computing, its functions have been expanded, enabling high-resolution 2D/3D reconstruction, object detection, and biomass inversion. The integration of deep learning technology has further enhanced the capabilities of automatic feature extraction, semantic segmentation, and large-scale data processing, promoting the expansion of the application boundaries of UVAs.

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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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