Special Issue

Hyperspectral Imaging and LiDAR Scanning Technology Development and Applications

Message from the Guest Editors

As the main technical approach of Earth observation, remote sensing has been widely used in ecology, agronomy, forestry, geography, and environmental science. The main remote sensing techniques include active information acquisition methods (e.g., SAR and LiDAR) and passive optical imaging approaches (e.g., high-resolution imagery and hyperspectral imagery). LiDAR can obtain the range and 3D spatial information of the target and is not easily affected by environmental factors such as changes in illumination conditions or weather. However, it cannot obtain spectral data, and current airborne LiDAR systems have fewer than three bands. Hyperspectral images have many channels and continuous spectrum coverage and have been used for identification and classification in many fields. However, the range information of the target cannot be obtained. and it is easily affected by obstructions such as clouds or forest canopies. Hyperspectral LiDAR is a new technology that has emerged in recent years. It combines the advantages of LiDAR and hyperspectral images but still requires more effort in large-scale detector technology, data processing, and application exploration.

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peerreview process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend Remote Sensing for your best research publications for a fast dissemination of your research.

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