Special Issue

Deep Learning Meets Remote Sensing for Earth Observation and Monitoring

Message from the Guest Editors

Remote sensing technologies enabled researchers to understand, analyze and monitor different activities on Earth from a far distance. With the current advances in technologies, such as satellites, drones, etc., a significant amount of data (in the form of high-resolution images) can be easily acquired. This opens new paradigms and research directions for the remote sensing community and offers different applications in diverse fields, such as smart agriculture, traffic monitoring, disaster management, and urban planning. For monitoring Earth, visual pattern recognition is a pre-processing step. The automated recognition of different patterns by employing computer vision and deep learning techniques will provide crucial information for monitoring changes across the Earth's surface. Although deep learning techniques have achieved tremendous success in object classification, detection, and segmentation tasks in natural images, however, these models face challenges in identifying patterns in remote sensing images due to complex backgrounds, arbitrary views, and large variations in object sizes.

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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 peer-review 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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