Deep Learning Meets Remote Sensing for Earth Observation and Monitoring

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Message from the Guest Editors

Dear Colleagues,

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.

Special Issue

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Message from the Editor-in-Chief

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