Deep Learning Methods for Aerial Imagery

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Message from the Guest Editors

Deep learning methods have grown in popularity and have contributed to dramatic increases in performance in various areas of computer vision and other disciplines. In this Special Issue, we invite authors to contribute papers on deep learning methods for aerial imagery using data from unmanned aerial systems and spaceborne or airborne platforms. Aerial imaging has diverse applications, including but not limited to surveillance, environmental monitoring, smart cities, transportation and urban planning, visual odometry, unmanned aerial system obstacle avoidance, precision agriculture, infrastructure mapping and monitoring, land cover, natural resources, construction, geospatial epidemiology, humanitarian assistance, and disaster relief. Proposed algorithms and methods may consider various sensing modalities—e.g., RGB, panchromatic, thermal, multispectral, hyperspectral, SAR, and LIDAR. We invite authors to submit high-quality manuscripts on computer vision and the image analysis of aerial data contributing novel algorithms, systems, review articles, new datasets, or benchmarking studies.

Special Issue

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Message from the Editor-in-Chief

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