Special Issue

Urban Multi-Category Object Detection Using Aerial Images

Message from the Guest Editor

The detection of urban objects from aerial images has become a prevalent and useful task, as aerial images may be used for surveillance, tracking, mapping, or search and rescue tasks. However, satellite and aerial image prices have significantly decreased in the past few years. Due to the availability of UAVs and drones for real-time monitoring of a defined area or exploratory flights, a precise detection of the captured objects is required, as many kinds of objects may be present simultaneously in a picture and must be detected and classified.Many approaches that utilize deep neural networks have been developed recently. Many so-called standard algorithms based on convolutions and residual or recurrent networks have been modified to fulfill the task. However, new architectures that can deal with noisy images, complex backgrounds, and complex environments are still required. Everything starts with the excellent image preprocessing phase, dealing with different light conditions, weather conditions, and other aspects. Any high-quality novel and efficient approaches that deal with all or any aspect of urban multi-object detection from the aerial images are welcome.

Guest Editor

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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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