Special Issue

Object Detection and Tracking in Satellite Imagery and Video

Message from the Guest Editors

The advent of modern satellite constellations, delivering high revisit rates and sub-meter resolution, coupled with the emergence of satellite video capabilities, has ushered in a revolution in Earth observation. This deluge of spatiotemporal data presents unprecedented presents unprecedented opportunities for monitoring dynamic processes on a global scale. Against this backdrop, automated object detection and tracking have emerged as pivotal enabling technologies enabling technologies, capable of transforming raw pixel data into actionable intelligence. These advanced techniques are poised to make significant contributions to a wide array of application domains, including traffic monitoring, urban planning, disaster response, and environmental monitoring. However, the field of remote sensing also presents unique and significant challenges, such as extremely small object sizes, complex backgrounds, and highly variable imaging conditions. These inherent difficulties push conventional computer vision methodologies to their limits, thereby creating a critical demand for specialized and innovative research.

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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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