Special Issue

Artificial Intelligence-Driven Methods for Remote Sensing Target and Object Detection (Third Edition)

Message from the Guest Editors

Remote sensing target detection and object detection aim to determine whether there are targets or objects of interest in an image, playing a decisive role in various fields, such as resource detection, environmental monitoring, urban planning, national security, agriculture, forestry, climate, hydrology, etc. In recent years, artificial intelligence (AI) has undergone considerable development and been successfully applied for various applications, such as regression, clustering, classification, etc. Although AI-driven approaches can handle the massive quantities of data acquired by remote sensors, they require many high-quality labeled samples to deal with remote sensing big data, leading to fragile results; in other words, AI-driven approaches with strong feature extraction abilities have limited performance and are still far from meeting practical demands. Thus, target detection and object detection in the presence of complicated backgrounds with limited labeled samples remains a challenging mission. The main goal of this Special Issue is to address advanced topics related to remote sensing target detection and object detection.

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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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