



## Object Detection and Information Extraction Based on Remote Sensing Imagery

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### Message from the Guest Editors

Remote sensing technology has become a fundamental means by which humans might observe the Earth, and has driven progress in many applicative fields. However, the intelligent interpretation of remote sensing data poses unique challenges due to the limited imaging capability, extremely high annotation costs, and insufficient multimodal data fusion. In recent years, deep learning techniques, represented by convolutional neural networks (CNNs) and transformers, have shown remarkable success in computer vision tasks due to their powerful feature extraction and representation capabilities. However, their application in remote sensing imagery is still relatively limited.

This Special Issue aims to present the latest advancements and emerging trends in the field of object detection and information extraction in remote sensing imagery, including but not limited to the following themes:

Object detection and tracking in remote sensing images/videos;

Scene recognition, road extraction, semantic segmentation;

Anomaly detection and quality evaluation of remote sensing data;

Multi-modal remote sensing information extraction and fusion;

Few/zero-shot learning in remote sensing data.



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## Message from the Editor-in-Chief

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