Special Issue

Object Detection and Information Extraction Based on Remote Sensing Imagery

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;

Guest Editors

Prof. Dr. Jie Feng

Prof. Dr. Gui-Song Xia

Prof. Dr. Xiangrong Zhang

Prof. Dr. Gong Cheng

Prof. Dr. Lichao Mou

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Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

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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.

Editor-in-Chief

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

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