Special Issue

Scalable and Credible Artificial Intelligence for Remote Sensing Imagery Understanding

Message from the Guest Editors

Remote sensing imagery understanding has become prevalent in the field of intelligent transportation, smart cities, geophysics, glaciology, urban planning, among others. The development of Artificial Intelligence has heightened the need for a fine-grained data understanding method. However, the existing methods suffer from limited feature extraction and slow speed. Moreover, there is a huge gap between domain knowledge and remote sensing algorithms. With the aim of facilitating real-case applications, lightweight, scalable and credible AI models have become a promising way to deal with large amounts of remote sensing data, with a complicated morphology. For example, the convolutional neural network and visual transformer exhibit powerful capability to deal with large-scale remote sensing images. In addition, a group of high-resolution geological realizations are created by the generative adversarial networks. There is significant potential to employ advanced AI models to fulfill data understanding in remote sensing applications. We warmly welcome high-quality original submissions, in the form of cutting-edge articles, along this research direction.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2023)

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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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