

Special Issue

Wavelet Transform for Remote Sensing Image Analysis

Message from the Guest Editors

Wavelet transform is a popular approach in signal and image processing, with wide-ranging applications including remote sensing. Wavelet transforms start with an orthogonal basis of constant functions, constructed by simple dilation and translation to map any function to its coefficients with respect to this basis. When this transformation is applied to remote sensing images, the resulting coefficients can be used to solve numerous problems in this field ranging from feature extraction, compression, and registration to advanced applications such as extracting bathymetry from radars. This Special Issue is focused on the use of wavelet transforms for remote sensing images in order to cover the broad range of possibilities. Theoretical, methodological, experimental, and application papers are welcome addressing (but not limited to) the following aspects:

- Feature extraction—multispectral, hyperspectral, and radar;
- Image enhancement and noise reduction;
- Super-resolution reconstruction;
- Image change detection;
- Image fusion;
- Image registration;
- Image compression;
- Applications in high-resolution images collected from small drones.

Guest Editors

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Message from the Editorial Board

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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