



Deep Neural Networks for Remote Sensing Applications

Guest Editors:

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Deadline for manuscript
submissions:

closed (30 September 2020)

Message from the Guest Editors

This Special Issue welcomes papers that explore novel and challenging applications by analyzing multi-band images acquired from diverse sensors using one or a combination of several Deep Learning models. We welcome topics that include but not limited to the following:

- Labeled dataset of unmanned aerial vehicle, aerial or satellite multi-band images;
- Dimensionality reduction;
- Feature extraction;
- Image fusion;
- Image reconstruction;
- Spectral unmixing methods;
- Remotely sensed image classification;
- Object detection in remotely sensed data, e.g., for designing new counting methods;
- Instance segmentation in remotely sensing data, e.g., for the delimitation of vegetation individuals, wildlife, catastrophic events, meteorological events;
- Adversarial generative networks, e.g., for super-resolution problems, classification of terrestrial surface, generation of synthesized images to fill gaps in clouds;
- Detection of anomalies in time series;
- Predictions, e.g., predicting specific climatic or polluting events, evolution of natural areas, changes in cities or crops;
- New problem applications addressed with deep learning models;





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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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Journal Rank: JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)

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