Special Issue

Deep Transfer Learning for Remote Sensing

Message from the Guest Editors

This Special Issue is devoted to exploring the potential of deep transfer learning framework in RS image processing. Due to different acquisition conditions and sensors, the spectra observed on a new scene can be quite different from the existing scene even if they represent the same types of objects. This spectral difference brings huge semantic disparity among different RS datasets. Therefore, how to select, construct, and correlate the deep networks by transfer learning for different RS datasets will be the major concern of this Special Issue. Topics of interest include, but are not limited to:

- Theories for domain adaptation and generalization;
- Auto-encoder-based transfer learning for remote sensing;
- CNN-based transfer learning for remote sensing;
- RNN-based transfer learning for remote sensing;
- Capsule network-based transfer learning for remote sensing;
- Domain generalization algorithms for visual problems;
- Deep representation learning for domain adaptation and generalization.

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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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