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Self-Supervised Learning in Remote Sensing

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Message from the Guest Editors

Self-supervised learning could be a promising approach to remote sensing study, which aims to adopt self-defined pretext tasks such as supervision and use the learned representations for different downstream tasks. Although numerous efforts have been devoted to addressing the lack of data annotations in remote sensing, the applicability in real-world scenarios and theoretical research continues to put forward urgent requirements for advanced remote sensing methods. This Special Issue aims to gather the latest works in self-supervised learning in remote sensing and propose new theories and approaches to solve existing problems. Specific topics of interest include but are not limited to the following:

SAR image processing;
Self-supervised learning on SAR data;
High-resolution remote sensing image processing;
Transfer learning on remote sensing data;
Self-supervised learning for change detection;
Hyperspectral image processing;
Self-supervised learning on hyperspectral data;
Multispectral image processing;
Self-supervised model pre-training on remote sensing data;
Self-supervised learning for scene recognition, land use–land cover classification.

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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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