



## Advanced Learning Techniques for Remote Sensing Image Quality Improvement

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submissions:

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### Message from the Guest Editors

Remote sensing image quality improvement, e.g., image super-resolution, image fusion, and image deblurring, are important foundations and prerequisites for many downstream remote sensing applications. In recent years, although substantial progress has been made in the above directions, there are still some open problems and challenges, such as how recent learning techniques (e.g., deep learning, generative neural networks) reshape and benefit remote sensing image processing, how to effectively evaluate the quality of remote sensing images, and how to deal with the rapidly growing data volume as well as their diverse modalities.

The potential topics may include but are not limited to:

- RS image super-resolution;
- Image registration and pan-sharpening;
- Hyperspectral image denoising;
- Deep-learning-based RS image processing;
- Multimodal data fusion between hyperspectral imagery with other data sources;
- Cloud detection and removal in remote sensing images;
- RS image quality assignment;
- Advanced deep learning models, and physics-informed neural networks;
- Applications of RS image quality improvement in agriculture, marine, meteorology, and other fields





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## Message from the Editor-in-Chief

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