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Pansharpening and Beyond in the Deep Learning Era

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Deadline for manuscript submissions:
closed (15 November 2023)

Message from the Guest Editors

Dear Colleagues,

Multiresolution (MR) fusion is a popular task where two images of the same scene with different resolutions and complementary features are merged with the aim of synthesizing a higher-quality image that reproduces all bands of interest at the highest possible resolution. There are many different cases of MR fusion, such as hyper-/multi-spectral fusion, pansharpening, SAR/optical or SAR/SAR fusion, and so forth, and new fusion problems arise each time a new Earth observation satellite is put in orbit. In addition, new (or renovated) challenging questions are carried by the big wave of deep learning.

This Special Issue aims to report the latest advances and trends concerning the solution of MR fusion problems. Papers of both theoretical and applicative nature are welcome.

Major topics of interest include but are not limited to:

- Pansharpening.
- Hyper-spectral/multi-spectral image fusion.
- Optical or SAR image super-resolution.
- Multitemporal fusion.
- Cross-sensor multi-resolution fusion.
- Pansharpening and super-resolution assessment.

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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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