remote sensing

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Artificial Intelligence Applications and Techniques for Remote Sensing Instruments

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Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editors

The recent advancements in artificial intelligence (AI) have demonstrated innovative and powerful capabilities in extracting information from datasets. Equally, AI has been applied to control and tune hardware, resulting in complete new smart instruments or subsystems. The use of this AI technology on instruments leads to new applications and instruments with enhanced properties. We invite authors to submit their work on the development of algorithms to improve the current state-of-the-art remote sensing technology, leading to optimal measurement strategies and enabling significant accuracy improvements in the retrievals of geophysical parameters.

Topics suggested include, but are not limited to the following:

- Use of AI in instruments for remote sensing;
- Use of AI in autonomy for remote sensing applications;
- Use of AI to develop synergic measurements with multiple instruments;
- Use of AI for choosing better measurement strategies and autonomous measurements;
- Use of AI in active and passive remote sensing instruments;
- Use of AI in optical sensors;
- Use of AI for instrument calibration;
- Use of AI for retrieval enhancements through the use of smart technology

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Special Issue

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Editor-in-Chief

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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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