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Deep Learning for Remote Sensing in Data Scarce Regimes

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Message from the Guest Editors

Dear Colleagues,

Recent advances in deep learning have led to high-performance supervised learning algorithms for the domain of electrooptical (EO) images. This success, however, is conditioned on generating huge annotated datasets using modern crowdsourcing data annotation platforms such as Amazon Mechanical Turk that recruit ordinary people for data annotation. Unlike the EO domain, data annotation in remote sensing domains is substantially more challenging, and for various reasons, using crowdsourcing platforms is not feasible. As a result, we frequently encounter data scarcity in solving supervised deep learning in remote sensing applications. This Special Issue serves as an outlet for articles covering but not limited to:

- Cross-domain transfer learning for remote sensing applications;
- Domain adaptation using synthetic data in remote sensing applications;
- Zero-shot and few-shot learning in remote sensing applications;
- Efficient approaches for remote sensing data annotation.

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Guest Editors

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Special Issue

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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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