



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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Message from the Editor-in-Chief

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