Special Issue

Deep Learning for Intelligent Synthetic Aperture Radar Systems

Message from the Guest Editors

Synthetic aperture radar is an important active remote sensing sensor that provides all-day, all-weather imaging capability. SAR images come in different spatial/temporal resolutions, frequencies, and polarizations. Deep learning has recently gained popularity in the analysis of active SAR images. However, due to less visual saliency, the presence of speckle noise, and significant variation among different SAR systems, applications of deep-learning-based methods in this data domain are not straightforward. Methods and architectures originally designed for mere classification and semantic segmentation require additional modeling to be used for such applications. Thus, there are still many research issues in the deep-learning-based analysis of SAR data that require the attention of the research community.

This Special Issue aims to collect and highlight contributions focusing on novel deep-learning-based methods and architectures that can particularly address the challenges faced in SAR image/data analysis. Starting from more popular topics like target detection, this Special Issue also aims to collect contributions from emerging topics, such as uncertainty quantification.

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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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