



## SAR-Based Signal Processing and Target Recognition

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### Message from the Guest Editors

Dear colleagues,

Synthetic aperture radar (SAR) is a class of significantly important remote sensors that work effectively during all weather conditions and during all times of day. SAR has the capability to provide very high-resolution images and multi-dimensional data during a limited period of time, enhancing the spatial-time resolution of observations.

Recently, machine learning and deep learning methods have been applied to SAR imaging and target reclassification to drive various algorithms, which can be classified as model-based and data-learning techniques. Compared to model-based approaches, the learning algorithms are more adaptive and show good data robustness with high efficiency for superior performance. However, when limited to small data sets, complex scenes, etc., these learning algorithms may suffer from bad generalization capability, low feature detection robustness, and are impossible to use in practical applications. To promote the development of advanced SAR technologies, further studies are necessary to establish new theories/approaches using the existing models, concepts, and architectural designs.





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