



## Deep Learning for Intelligent Synthetic Aperture Radar Systems

Guest Editors:

**Dr. Sudipan Saha**

Indian Institute of Technology  
Delhi, Delhi, India

**Dr. Taoyang Wang**

School of Remote Sensing and  
Information Engineering, Wuhan  
University, Wuhan, China

**Dr. Muhammad Shahzad**

Data Science in Earth  
Observation, Technical University  
of Munich, Munich, Germany

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### 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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Dr., Flagstaff, AZ 86001, USA

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*Remote Sensing* Editorial Office  
MDPI, Grosspeteranlage 5  
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