



## **Advances in Synthetic Aperture Radar (SAR) Signal and Image Processing**

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### **Message from the Guest Editors**

Synthetic Aperture Radar (SAR), as an active microwave imaging system, has been increasingly applied in domains such as environmental and Earth monitoring, ocean resource utilization, battlefield perception, and reconnaissance.

Numerous types of electronic technologies, such as Terahertz technology and Microwave photonics technology, make SAR systems have a higher range and azimuth bandwidth, which improves the accuracy of remote sensing data; The maturity of platform technologies such as small satellites and drones make multiple SAR payloads can form a distributed or clustered SAR system on these platforms, which enriches the means of obtaining microwave remote sensing data.

This Special Issue aims to collect and highlight outstanding contributions that cover “Advances in Synthetic Aperture Radar Signal and Image Processing”, including but not limited to the following:

- SAR target scattering characteristic analysis
- SAR motion error estimation and compensation
- The multistatic SAR synchronization method
- Combination of artificial intelligence techniques
- SAR target information extraction and fusion
- SAR high-resolution imaging
- 3D SAR imaging
- Video SAR imaging





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## Message from the Editor-in-Chief

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