



Research on High Resolution and Wide Swath Imaging and Target Detection for Waveform Diversity Array Radar

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Radar imaging with HRWS can shorten revisit time and greatly improve surveying and mapping efficiency. It has become an inevitable trend to obtain SAR images with HRWS simultaneously. However, high-speed platform radars are constrained by the minimum antenna area criterion, making it difficult to achieve both high-resolution and wide-swath imaging.

Waveform diversity array (WDA) radar adopts various forms, such as space/time/frequency/polarization, can detect targets from different dimensions, thus improving radar perception capabilities. WDA technology still has great potential in imaging and target detection of HRWS and has important theoretical and practical research value.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) WDA radar and the following :

HRWS imaging technology;
Motion error compensation technology;
Robust detection for moving targets;
Integrated target detection, imaging and tracking;
System overall design;
High-dimensional signal processing.

We look forward to receiving your contributions.





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Message from the Editor-in-Chief

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