Special Issue

Waveform Diversity Array (WDA): Recent Progress in Radar Target Recognition and Location

Message from the Guest Editor

Waveform diversity array (WDA) radar employs multiple transmitting antennas, each transmitting signals that differ in space, time, frequency, polarization, and modulation mode. These differences enhance the radar system's degrees of freedom, overcoming the limitations of traditional radar in terms of target positioning and identification. WDA represents a revolutionary breakthrough in radar technology. WDA radar offers simultaneous solutions for various challenges encountered in complex electromagnetic environments. It effectively addresses issues such as anti-mainlobe interference, unambiguous parameter estimation, high-resolution wide swath imaging, multi-dimensional domain feature extraction, and target recognition. In the complex modern battlefield environments, WDA provides a new and precise approach to target location and recognition. This Special Issue focuses on the latest advancements in WDA radar technology specifically tailored to precise target location and recognition in complex battlefield environments.

Guest Editor

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