



Advanced Anti-Jamming Methods and Signal Processing Techniques for Radar System

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Message from the Guest Editors

With advancements in electronic systems and signal processing theory, the field of modern radars and electronic jammers has become increasingly competitive. Jamming signals can be modulated in multiple dimensions in a space-time coupled manner for defense and civil applications. Modern radars are developed for performance enhancement within dense electromagnetic jamming environments, implementing new strategies for this purpose, including waveform diversity and/or agility, sophisticated design of signal recovery, knowledge-based adaptive processing, advanced learning-based processing frameworks, and so on. This Special Issue concerns anti-jamming challenges in the radar community. Possible strategies include, but are not limited to: waveform optimization, advanced coding design, frequency/time/coding diversity, and waveform agility, etc. Signal processing methods are of particular interest, including multi-array signal processing, multi-dimensional signal processing, MIMO techniques, frequency diverse array processing, agility radar coherent processing, sparse recovery and compressive sensing, knowledge-aided adaptive processing, and machine-learning-based processing.





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Message from the Editor-in-Chief

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