

Cognitive Radar Anti-Jamming Methodologies

Anti-jamming remains an eternal focus for radar experts and engineers. Real-world interference sources exhibit rich diversity, with the intelligentization trend of deliberately generated jamming being particularly prominent. Given that the transmitted waveform serves as the fundamental information carrier for radar systems, this work prioritizes addressing the challenges of active jamming suppression and countermeasures through transmit waveform optimization design methods, while also looking ahead to critical technologies requiring breakthroughs.