



Nonlinear Junction Detection and Harmonic Radar

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Nonlinear junction detection (NLJD), a niche specialization within the field of radar, has existed since the 1970s, but this research area has experienced significant growth in the past decade. Recent applications include tracking insects and small amphibians, locating radio-frequency (RF) surveillance equipment, sensing temperature remotely, alerting a driver to the presence of people crossing the path of their vehicle, measuring the extent of corrosion, monitoring human vital signs, and detecting RF electronics at standoff range.

With this Special Issue, we intend to compile and disseminate advancements relevant to NLJD and nonlinear radar from across the wide application space described above. Of particular interest are system-design techniques (e.g., linearization, size/weight/power minimization), tag design and target-property studies (e.g., multi-frequency antenna matching, response vs. polarization), and waveform selection (e.g., step frequency, multi-tone). Nevertheless, all contributions relevant to nonlinear radar technology are welcome.





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