Special Issue

Radar Signal Processing for Target Tracking

Message from the Guest Editors

One of the main tasks accomplished by a radar system is the active/passive tracking of multiple targets. Such a function can be fed by either compressed data, namely, detections along with the associated rough measurements at the output of the signal processing unit, or raw data at the output of the matched filter (track-before-detect paradigm or SAR tracking) and collected by means of sensor networks or multistatic radar systems with either a fusion center or distributed tracking architecture. Additionally, realistic and outlier unexpected effects may be detrimental to some model assumptions, paving the way to a need for data-driven approaches. Finally, it is important to highlight that tracking functions may play a primary role in several operating contexts as, for instance, space debris monitoring, tracking of icebergs, UAV detection and tracking, etc.

This Issue is focused on the design of modern tracking algorithms for multiple targets that take advantage of both enhanced available computational power and recent approaches to statistical signal processing based upon machine learning or compressed sensing over possibly distributed system architectures.

Guest Editors

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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