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Radar Signal Processing for Target Tracking

Guest Editors:

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Deadline for manuscript submissions:
closed (30 April 2022)

Message from the Guest Editors

Dear Colleagues,

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.

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Message from the Editor-in-Chief

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