Special Issue

Signal Processing in Modern Radars

Message from the Guest Editors

Dear colleagues, Advances in the miniaturization and integration of RF front-ends, converters, and processing units as well as increases in available computational power and data transfer rates bring radar systems into new fields. They also open up further possibilities in well-established radar applications. However, these development factors rarely provide new functionalities themselves. The crucial factor allowing utilization of this emerging potential is proper signal processing algorithms. Basic radar processing steps such as waveform generation, digital signal conditioning, range-doppler compression, detection, and target localization must be revisited, taking into account wider data bandwidths, spatial diversity of radar sensors, and possible communication between them. These also bring challenges into data interpretation at more abstract levels...

Guest Editors

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Message from the Editor-in-Chief

Our primary goal is to encourage scientists and engineers to publish their theoretical results and developed methods in as much detail as possible. There is no limit to the maximum length of papers. Whenever possible, authors are encouraged to provide relevant data and developed code so that the results can be reproduced. Our goal is to provide a platform for scientists and engineers to share new approaches to signal processing in various application domains.

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