Special Issue

Array Digital Signal Processing for Radar

Message from the Guest Editor

Array digital signal processing (DSP) plays a pivotal role in radar technology. By optimizing signal reception, improving resolution, and mitigating interference, it enhances radar performance, thereby increasing the application value of radar technology in various fields, such as weather detection and autonomous driving. This Special Issue focuses on the latest advancements in array digital signal processing technology for radar applications. Topics of interest include adaptive beamforming, direction of arrival (DOA) estimation, clutter suppression, and weak target detection in complex environments. Additionally, contributions on array DSP-based synthetic aperture radar (SAR) imaging, including array SAR signal processing, 2D/3D SAR imaging, SAR interferometry, and polarimetry, are also welcome, as these have become indispensable components of high-resolution radar imaging and remote sensing applications. Original research and reviews addressing current challenges and proposing innovative DSP solutions for both conventional and emerging radar technologies are invited.

Guest Editor

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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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