Special Issue

Theory and Applications of MIMO Radar

Message from the Guest Editors

The MIMO radar simultaneously emits multiple distinct waveforms through multiple transmitting antennas, exploiting multiple receiving antennas to receive the reflected signals. Compared with the traditional phased array radar and distributed radar, the MIMO radar possesses more degrees of freedom at the transmitting and processing ends due to its advantages in waveform diversity and space diversity. The Special Issue aims to exhibit recent advanced techniques in the fields of theory and application of the MIMO radar. Topics may cover anything from beampattern shaping, waveform design, target detection, parameter estimation, and clutter and jamming suppression for the MIMO radar. Additionally, novel techniques focusing on new conceptions combined with the MIMO radar are welcome. Articles may address, but are not limited to the following topics:

- MIMO radar waveform design;
- MIMO radar array design;
- MIMO radar beampattern optimization;
- MIMO radar transmit–receive optimization;
- MIMO radar detection, parameter estimation, and identification;
- MIMO radar and communication spectrum coexistence;
- MIMO radar clutter and jamming suppression.

Guest Editors

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Deadline for manuscript submissions

closed (31 July 2023)

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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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