



Theory and Applications of MIMO Radar

Guest Editors:

Prof. Dr. Guolong Cui

Dr. Bin Liao

Dr. Yong Yang

Dr. Xianxiang Yu

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Message from the Guest Editors

Dear Colleagues,

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 beam pattern 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 beam pattern 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.





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Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
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Western Geographic Science
Center (WGSC), 2255, N. Gemini
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Message from the Editor-in-Chief

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Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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