



Journal of Systems Engineering and Electronics
(Indexed by Science Citation Index, Engineering Index)

CALL FOR PAPERS

Special Section on Sensor Array Signal Processing and its Applications in 5G/6G

Sensor arrays provide additional degree of freedom in the spatial domain compared to a single antenna, which, with the aid of advanced signal processing algorithms, can be exploited for interference suppression/beamforming, direction of arrival estimation, and target tracking and localization. While two prominent technologies in 5G/6G communication system, i.e., massive MIMO and millimeter (mm) wave communication, generally demand massive antennas, significant advances in antenna arrays are expected to satisfy the requirement of thousands of contemporaneously connected devices. Array signal processing has aroused considerable attentions, and various applications contain 5G/6G communications, MIMO radar and satellite navigation.

This special section aims to address the advances in the area of array designs, signal processing algorithms and their applications. We expect distinguished submissions to highlight emerging applications of arrays, addressing significant breakthroughs in the array designs and sensor array signal processing.

Scope of Topics

The topics of interest include, but are not limited to

- Generalized sparse array design for high performance
- Multi-dimensional array signal processing
- Array calibration and compensation methods
- Array signal processing methods with sparse antenna arrays
- Array signal processing in 5G/6G
- Array designs and beamforming for massive MIMO systems
- Array signal processing for mm-wave communications
- Aperture extension techniques for sparse MIMO radar
- Sparse MIMO radar design and direction finding algorithms
- Tracking moving sources
- Performance bounds on localization and tracking
- Smart and adaptive arrays
- Hardware implementation and design

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Submission

Authors should prepare papers according to the format requirements of *Journal of Systems Engineering and Electronics*, with reference to the Instruction given at <http://www.jseepub.com>, and submit the Word version of the complete manuscript through the online submission system. When submitting the paper, the title format should be "Title (Special Section on SASP)" .

Important Dates

- Submission Deadline
January 31, 2021
- Acceptance Notification
March 31, 2021
- Possible Publication
June 30, 2021

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