# CALL FOR PAPERS

## Special Section on Advanced Radar Imaging and Intelligent Processing

Radar has found a wide range of applications in the past, such as target detection and tracking, surveillance, remote sensing, and more recently in the rapidly developing area of robotics and autonomous systems. With advances in both signal processing and hardware design, more flexible (resolution & swath) radar working modes with better performance have been proposed, together with new theories and methods for advanced radar imaging and processing. Moreover, with the deployment of a large number of different types of radar systems, radar image processing in the remote sensing area has entered the era of big data. Given its great success for traditional optical images, the intelligent processing technology has attracted more and more attention and has been developing very quickly in radar image interpretation, especially for target detection and classification. Although the performance of intelligent processing is better than that of the traditional methods, complex target scattering and unique characteristics of radar data demand tailor-made solutions of their own for further improved performance. This special section is designed to report cutting-edge models and methods for advanced radar imaging and intelligent processing.

### Scope of Topics

This special section invites both review articles and original contributions on the latest developments in advanced radar imaging algorithms and intelligent processing methods. The topics of interest include, but are not limited to

- Advanced radar system design and working modes
- New theories and methods for advanced radar imaging
- Moving target detection and tracking algorithms with radar data
- Intelligent processing methods and algorithms for big radar data
- Robust intelligent processing models for information extraction (scene classification, target recognition, semantic segmentation, etc.)

### Submission

Authors should prepare papers according to the format requirements of the Journal of Systems Engineering and Electronics, with reference to the instructions given at http://www.jseepub.com, and submit the Word version of the complete manuscript through the online submission system. The title format should be "Title (Special Section on **Advanced Radar Imaging and Intelligent Processing**)" when submitting the paper.

### Important Dates

**Manuscript Due**
August 31th, 2022
**Final Review Notification**
October 30th, 2022
**Possible Publication**
December 31th, 2022

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