Artificial Intelligence (AI) Based Radar Signal Processing and Radar Imaging

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Message from the Guest Editors

Dear Colleagues,

In the last few decades, the theory and methodology of radar signal processing and radar imaging have made considerable progress. In particular, with the recent breakthrough of artificial intelligence (AI), especially deep learning, many innovative approaches have been proposed for radio-frequency interference recognition, ground/sea clutter suppression, moving target detection, direction-of-arrival (DOA) estimation, as well as high-resolution target imaging via synthetic aperture radar (SAR), inverse SAR (ISAR), and multiple-input-multiple-output (MIMO) radar, to name a few.

This Special Issue aims to gather the latest research results in the area of radar signal processing and radar imaging, with an emphasis on AI-based methods. We invite researchers to contribute original research articles and comprehensive review articles. Topics include but are not limited to:

- Radar array signal processing;
- Radar target detection, estimation, and tracking;
- Radar jamming and clutter suppression;
- Radar waveform design and optimization;
- Rad, ISAR and MIMO radar imaging;
- AI-based radar signal processing and radar imaging techniques.

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Message from the Editor-in-Chief

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