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Innovative Target Tracking Techniques for Modern Radar and Sonar Systems

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Message from the Guest Editors

Due to their long-range, all-weather radar and sonar systems play important roles in both civil and defence applications. Typical examples include land, ocean, air, space monitoring, weather forecasting, air-defense, etc. Among the many applications, tracking multiple targets is an important function of radar and sonar systems.

The aim of this Special Issue is to gather recent advances and developments in the target tracking field, so as to determine how they can be adapted for modern radar and sonar systems. Potential topics of interest include, but are not limited to:

- Detection and tracking algorithms for low signal-to-noise ratio targets
- Multiple target tracking algorithms for modern radar and sonar systems
- Multiple target system modeling for radar and sonar systems
- Track before detect methods for radar and sonar systems
- Resource management for radar and sonar systems
- Distributed data fusion architectures and methods for networked radar and sonar systems
- Artificial intelligence for target detection and tracking in radar and sonar systems
- Classification and identification of multiple target systems.

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Message from the Editor-in-Chief

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