

Special Issue

Innovative Applications of HF Radar (Second Edition)

Message from the Guest Editors

This Special Issue is the second edition of the Special Issue “Innovative Applications of HF Radar”. HF radar, including both HF surface wave radar and HF skywave over-the-horizon radar, is primarily employed for detecting and tracking maritime targets as well as monitoring sea state parameters like ocean currents, wind, and waves. HF radar boasts advantages such as wide coverage, long-range, and real-time monitoring capabilities. It has found extensive applications in diverse fields, including maritime security, maritime traffic and fishery management, and maritime disaster monitoring, thereby contributing to the safeguarding of maritime interests and the safety of maritime activities. Additionally, HF radar can be employed to monitor oceanic dynamic processes, including oceanic circulation and mesoscale eddies as well as oceanic disasters like typhoons and tsunamis. In recent years, a variety of new HF radar systems, such as bistatic HF radar, ship-borne or buoy-based, sky-wave transmitting and shore/ship-receiving systems, and MIMO systems have emerged, further expanding the detection range and application fields of HF radar.

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