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HF Surface Wave Radar: Improving Performance and Extending Capabilities

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Deadline for manuscript submissions:
31 March 2025

Message from the Guest Editors

Dear Colleagues,

HF radars are now widely used in coastal observing systems to monitor surface currents, from the coast to over 100 km offshore. Measurements of ocean waves and inferred winds have also been carried out with these systems, although these are not routinely available from most operational systems. The radar echoes containing the desired information must compete with external noise, which may originate from natural or anthropogenic sources, and unwanted echoes, including echoes from ships and plasma irregularities in the ionosphere.

We hope that some of these limitations will be explored and, where possible, solutions offered, in papers submitted to this Special Issue. These could include new radar technologies and deployment principles, new signal processing approaches, and new inverse methods. We also invite papers that review existing techniques that address some of these issues but are not yet widely applied. Beyond these advances, we would be delighted to receive descriptions of other problems encountered by radar users that have limited robust and accurate data delivery, to suggest future research directions.

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Editor-in-Chief

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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