Special Issue

New Insights into Remote Sensing Techniques, Analysis and Modeling for the Observation of Ocean Waves and Sea Ice Monitoring

Message from the Guest Editors

Ocean waves and sea ice are intimately connected. As ocean waves can affect the sea ice types, floes distribution and concentration, and thus the fluxes through the ocean-atmosphere interface, it is demanding to include waves-in-ice into the earth system of observation and modeling. The dramatic shrinking of the sea ice extent and volume allows winds to blow over longer fetches, thus developing higher and more energetic waves. Such waves favour the formation of grease and pancakes in the marginal ice zone and the fragmentation of ice floes in the depth of icefields, thereby contributing to the overall reduction of sea ice in the polar regions. This Special Issue is aimed at gathering research works on all the aspects related to the measurement, observation, analysis methods of ocean waves and sea ice, also in conjunction with theoretical description, modeling and forecast in the polar, sub-polar and marginal seas. This can be achieved either by taking advantage of the available microwave, optical, acoustic data and imagery provided from above by space-, air-, ship-borne, UAV systems and from below by submarine and underwater vehicles.

Guest Editors

Dr. Giacomo De Carolis
Dr. Francesca De Santi
Prof. Dr. Hayley H. Shen

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Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

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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.

Editors-in-Chief

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

Prof. Dr. Dongdong Wang
Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

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