



Advances in Marine and Maritime Applications of SAR

Guest Editors:

Dr. Giacomo De Carolis
giacomo.decarolis@cnr.it

Dr. Francesca De Santi
desanti.f@irea.cnr.it

Dr. Virginia Zamparelli
zamparelli.v@irea.cnr.it

Dr. Gianfranco Fornaro
fornaro.g@irea.cnr.it

Deadline for manuscript
submissions:

15 April 2022

Message from the Guest Editors

This Special Issue, entitled “Advances in Marine and Maritime Applications of SAR” is aimed at stimulating studies to optimize SAR configurations in terms of frequency and polarization combinations, which are best suited for marine and maritime applications. This can be achieved either by taking advantage of the available spaceborne SARs or by exploiting synergy between SAR and optical imagery. The description of relevant case studies concerned with marine and maritime applications where the use of SAR has been prominent is also welcome.

The topics of this Special Issue will include, without being limited to, the following subjects:

- Maritime surveillance case studies such as oil-spill monitoring, navigation in sea ice infested waters, ship detection, ship traffic;
- Mapping of the marine environment: high-resolution wind fields, coastal wave fields, shoreline changes, upwelling phenomena, roll vortices, currents, fronts, gravity waves, internal waves, rain cells;
- Shallow water bathymetry;
- PolSAR and InSAR methods to improve maritime surveillance;
- Innovative SAR/InSAR concepts for optimal sensing of the marine environment.

