Special Issue

Mapping Surface Structure and Topography by Airborne and Spaceborne Altimetry

Message from the Guest Editors

Satellite radar altimetry missions have been used for characterization of the ocean surface and, thus, the topography of the ocean floor as well for geodesic studies concerning the distribution of the gravity field on the earth's surface. Since TOPEX/Poseidon and ERS, altimeter spatial data have begun to be used to characterize the surface of continental water bodies (e.g., lakes, rivers, reservoirs, wetlands, etc.). Some drift orbit missions have been used to map the surface of polar ice caps or continental surfaces. Great advances are expected given the possibility offered by new missions (e.g., CryoSat-2, Sentinel-3) in rethinking processing over the various complex surfaces using along-track unfocused/focused synthetic aperture radar (SAR) approaches. Some uses of GPS or Galileo (GNSS) signals may also allow for better mapping of topography. The aim of this Special Issue is to take stock of the latest knowledge in these different fields and to address the crucial issue of accuracy in global topographical models. For more information: https://www.mdpi.com/si/44016

Guest Editors

Dr. Frédérique Seyler

ESPACE-DEV, UMR 228 IRD/UM/UR/UG/UA, Institut de Recherche pour le Développement (IRD), 34093 Montpellier, France

Dr. Stefano Vignudelli

Consiglio Nazionale delle Ricerche (CNR), Area della Ricerca CNR S. Cataldo, Via Moruzzi 1, 56100 Pisa, Italy

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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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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.

Editor-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

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