Special Issue

Advanced RF Sensors and Remote Sensing Instruments

Message from the Guest Editor

Advanced RF sensors and remote sensing instruments are key for the future advancement of Earth observation missions and instruments that include spin-off for planetary missions. Thanks to the development of systems and missions (formation flying, SmallSats, GNSS-reflectometry, ka-band SAR, InSAR, etc.), our community will be able to further understand the complex and dynamic processes taking place on the Earth's surface and sub-surface, and all over the Earth's atmosphere. The application of such techniques will enable one to make advances in geology, hydrology, glaciology, and oceanography. Accordingly, the development of novel technology (instrument front ends, digital beamforming, Cal/Val, on-board processing, atmospheric and ionospheric corrections, etc.) and sub-systems is encouraged. This Special Issue aims to provide a review of instruments and state of the art in current and future mission concepts including applications, science objectives, mission design, and instrument technology. We expect to bring together and share the latest findings of experts from industry and research organizations involved in this research topic.

Guest Editor

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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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