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Emerging Techniques and Applications of Polarimetric SAR (PolSAR)

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Deadline for manuscript submissions:
closed (31 March 2022)

Message from the Guest Editors

Dear Colleagues,

SAR (synthetic aperture radar) and PolSAR (polarimetric SAR) systems are powerful remote sensing systems able to monitor the whole planet at unprecedented levels of precision to provide highly valuable information. Such systems offer huge data to researchers and to final users to assist on monitoring/planning land information: urban areas, land cover (deforestation, cover vegetation, soil moisture), and also retrieving oceanic information (oil spills detection) and water resources, among other applications of interest.

In order to fully extract information from the data, new methods and strategies are strongly required. Fortunately, computational capabilities have also experimented on an increase in their capabilities, allowing to process data in a more efficient way through multicore/GPU resources. This Special Issue focuses on exploring new techniques for the data-to-information process for SAR/PolSAR systems. Pattern recognition and machine learning methods built on suitable statistical models closely linked to the data are the main interest of this Special Issue, although it is also open to theoretical and physical SAR/PolSAR models.

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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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