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Compact Polarimetric SAR

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Deadline for manuscript submissions:
closed (31 May 2019)

Message from the Guest Editors

Fully polarimetric (FP) SAR imagery is acknowledged as providing the highest performance in SAR applications, due to the complete radar target information content. However, FP SAR imagery has reduced swath width relative to single and dual polarized SAR imagery and has higher system requirements.

A SAR system with a compact polarimetric (CP) SAR architecture constitutes a significant new advancement in the field of Earth observation using radar remote sensing. A CP SAR architecture transmits circular polarization and receives two orthogonal, mutually-coherent linear polarizations. The recently proposed CP SAR configuration for Earth observation could be a compromised choice for SAR applications. The main advantage of such SAR systems is that they provide increased radar target information in comparison to standard single and dual polarized SAR systems, while covering much greater swath widths compared to FP SAR systems.

This Special Issue of *Remote Sensing* is dedicated to demonstrate the potential of CP SAR for Earth observation applications. Articles in all SAR applications using real or simulated CP SAR data are welcome.

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Special Issue

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Message from the Editorial Board

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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