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IEEE Geoscience and Remote Sensing Magazine



Special Issue on “InSAR in Remote Sensing”

Synthetic Aperture Radar Interferometry (InSAR) is primarily utilized in Remote Sensing applications and has created a new class of radar data that has significantly evolved over the last couple of decades. It is fair to say that, from its initial development, InSAR has become a new and pioneering remote sensing tool for measuring Earth surface deformation and topography. InSAR is now a mature technology which can now provide crucial constraints on a broad and diverse range of Earth science processes.

This Special Issue will invite contributions on reviewing the current progress and highlighting the latest trends which have been proposed in the literature, covering InSAR signal processing techniques and InSAR applications in Earth science. Consistently with the approach and style of the Magazine, the contributors to the Special Issue should pay strong attention to tuning the discussion level as a trade-off between ensuring scientific depth and disseminating knowledge to a wide public that encompasses remote sensing scientists, practitioners and students.

The topics of interest include (but are not limited to)

- InSAR Co-Registration and Noise Filtering
- InSAR Phase Unwrapping
- InSAR Deformation Time Series Analysis
- InSAR in Volcanic Unrest
- InSAR in Hydrology
- InSAR in Disaster Science
- InSAR in Forest Science
- InSAR in Earthquake
- InSAR in Urban Scenarios

Format and preliminary schedule.

Articles submitted to this Special Issue of the IEEE Geoscience and Remote Sensing Magazine must contain significant relevance to InSAR signal processing or its application and should have noteworthy tutorial or review value. Selection of invited papers will be done on the basis of 4-page White papers, submitted in double-column format. These papers must discuss the foreseen objectives of the paper, the importance of the addressed topic, the impact of the contribution, and the authors' expertise and past activities on the topic. Contributors selected on the basis of the White papers will be invited to submit full manuscripts. Manuscripts should be submitted online at <http://mc.manuscriptcentral.com/grsm> using the Manuscript Central interface. Prospective authors should consult the site <http://ieeexplore.ieee.org/servlet/opac?punumber=6245518> for guidelines and information on paper submission. Submitted articles should not have been published or be under review elsewhere. All submissions will be peer reviewed according to the IEEE Geoscience and Remote Sensing Magazine guidelines.

Schedule

White paper submission deadline	April 1, 2019
Full paper Invitation notification	April 15, 2019
Full paper submission deadline	June 15, 2019
Review notification	August 15, 2019
Revised manuscript due	October 15, 2019
Final acceptance notification	November 1, 2019
Final manuscript files due	November 15, 2019
Publication date	March, 2020

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