

# Call for Papers

## IEEE Transactions on Geoscience and Remote Sensing (TGARS)

### *Special Issue on Synthetic Aperture Radar (SAR) Technologies and Techniques*

**Submission Deadline: September 30, 2006**

A **Special Issue** of the IEEE Transactions on Geoscience and Remote Sensing (TGARS) on Synthetic Aperture Radar has been recently approved by the TGARS Editorial Board. The Guest Editors of the TGARS Special Issue are *Prof. Alberto Moreira, Dr. David Hounam, and Prof. Werner Wiesbeck.*

This Special Issue is associated with the **6<sup>th</sup> European Conference on Synthetic Aperture Radar EUSAR**, held in Dresden, Germany, in May 2006 ([www.eusar.de](http://www.eusar.de)). For the last 10 years EUSAR has accompanied the worldwide evolution of high-resolution imaging radar, both airborne and spaceborne, and has helped to establish an international community of SAR engineers and scientists. As in previous years, EUSAR 2006 provided a forum for exchanging information and discussion on a wide variety of SAR topics, representing the latest SAR developments. This conference is the continuation of the biennial EUSAR series of scientific symposia devoted to the technology, techniques development and applications of SAR for remote sensing. EUSAR is organized by VDE/ITG, DLR, FGAN, EADS and EADS Astrium and technically sponsored by IEEE, EUREL and DGON.

The **objective of the Special Issue, open to all researchers**, is to select outstanding contributions on recent advances in the field of synthetic aperture radar, bringing together participants from the research, industrial and academic communities who are engaged in projects on the technologies and techniques of synthetic aperture radar.

Contributions on **topics of primary interest** are expected. These include SAR and ISAR systems and sensors, innovative SAR concepts and applications, advanced SAR modes (ScanSAR, Spotlight, Squint, Bistatic), very low frequency SAR systems, bistatic and multistatic SAR systems, passive SAR systems, multimode and reconfigurable SAR systems, multi-satellite and small satellite SAR systems, sparse aperture SAR, SAR and ISAR technology, ultra wide bandwidth and high resolution SAR, new SAR antenna concepts, digital beam forming, SAR signal processing, motion compensation and geocoding, signal processing for advanced SAR modes (spotlight, squint, bistatic), SAR data evaluation and handling, along and across-track interferometry, polarimetry and polarimetric interferometry, and moving target detection, STAP and change detection.

Prospective authors should follow the regular guidelines of the IEEE Transactions on Geoscience and Remote Sensing, as listed in the back cover of the Transactions. Authors should submit their manuscripts electronically to <http://mc.manuscriptcentral.com/tgrs>. Instructions for creating new accounts, if necessary, are available on the login screen. Please indicate in your submission that the paper is intended for the **Special Issue by selecting "EUSAR 06 Special Issue"** from the pull-down menu for manuscript type. Questions concerning the submission process should be addressed to [tgrs-editor@ieee.org](mailto:tgrs-editor@ieee.org). For this Special Issue, all page charges, including voluntary and mandatory charges, will need to be paid by the authors.

Inquires concerning the Special Issue should be directed to the Guest Editors:

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Updated information on the Special Issue of TGARS is available at <http://www.eusar.de> .