



## Special Issue of the IEEE Transactions on Geoscience and Remote Sensing on contributions to EUSAR 2010 in the field of Synthetic Aperture Radar (SAR) Technologies and Techniques

This Special Issue is associated with the **8th European Conference on Synthetic Aperture Radar (EUSAR)**, which was in Aachen, Germany in June 2010 (<http://www.eusar.de>). **EUSAR** is the only international conference worldwide entirely dedicated to the technology, techniques development, and applications of Synthetic Aperture Radar for remote sensing. For the last 14 years **EUSAR** has provided an excellent forum for exchanging information and discussion on a wide variety of SAR topics, representing the latest SAR developments, and has helped to establish an international community of SAR engineers and scientists.

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, 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.

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Additional information for authors from [matthias.weiss@fhr.fraunhofer.de](mailto:matthias.weiss@fhr.fraunhofer.de) or:  
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#### Important dates:

Submission deadline: 30 September 2010

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#### Guest Editors:

- Prof. Joachim H. G. Ender - [joachim.ender@fhr.fraunhofer.de](mailto:joachim.ender@fhr.fraunhofer.de)  
Fraunhofer - FHR, 53343 Wachtberg, Germany
- Dr. Christoph H. Gierull - [christoph.gierull@drdc-rddc.gc.ca](mailto:christoph.gierull@drdc-rddc.gc.ca)  
Defence R&D Canada, Ottawa, ONCanada, K1A0Z4, Canada
- Dr. Matthias Weiß - [matthias.weiss@fhr.fraunhofer.de](mailto:matthias.weiss@fhr.fraunhofer.de)  
Fraunhofer - FHR, 53343 Wachtberg, Germany
- Prof. Jong-Sen Lee - [jong\\_sen\\_lee@yahoo.com](mailto:jong_sen_lee@yahoo.com)  
National Central University, Chung-Li, Taiwan

