

**IEEE JOURNAL OF  
SELECTED TOPICS IN APPLIED EARTH  
OBSERVATIONS AND REMOTE SENSING**

A PUBLICATION OF THE IEEE GEOSCIENCE AND REMOTE SENSING SOCIETY



## **SPECIAL ISSUE ON *ADVANCES IN SAR AND RADAR TECHNOLOGY***

This Special Issue follows APSAR (Asia-Pacific Conference on Synthetic Aperture Radar) 2013, an international conference devoted to SAR and radar technology. APSAR covers a wide variety of SAR and radar related topics including SAR applications, analysis techniques, signal processing, SAR system design and concepts, and more. In APSAR 2013, "Disaster monitoring" is the main theme, providing the attendees with an opportunity to think about how each of us can contribute through SAR technology to overcome the hardships after disasters. To further promote research activities in this and relevant areas, IEEE JSTARS plans to publish a Special Issue on Advances in SAR and Radar Technology to be published in January 2015.

### **Scope of the Special Issue**

Topics include, but are not limited to:

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>A. Disaster Monitoring (Special Session)               <ul style="list-style-type: none"> <li>A.1 Contribution of SAR remote sensing on the Great East Japan Earthquake</li> <li>A.2 ALOS2 projects for prediction, mitigation and restoration</li> <li>A.3 SAR applications for various disasters</li> <li>A.4 Present and future SAR systems and missions in Asia-Pacific region</li> </ul> </li> <li>B. SAR Applications               <ul style="list-style-type: none"> <li>B.1 Land Use and Land Cover</li> <li>B.2 Soil and Vegetation Applications</li> <li>B.3 Atmosphere and Ocean Observation</li> <li>B.4 Snow and Ice</li> <li>B.5 Coastal and wetlands</li> <li>B.6 Others</li> </ul> </li> <li>C. Advances in Analysis Techniques               <ul style="list-style-type: none"> <li>C.1 Electromagnetic Modeling</li> <li>C.2 InSAR and High Resolution SAR</li> <li>C.3 POL and POLInSAR</li> <li>C.4 Bistatic SAR</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>C.5 Others</li> <li>D. SAR Signal Processing               <ul style="list-style-type: none"> <li>D.1 High Resolution SAR Processing</li> <li>D.2 SAR/GMTI/STAP and Change Detection</li> <li>D.3 Image Filtering, Correction and Enhancement</li> <li>D.4 SAR/ISAR Signal Processing</li> <li>D.5 Others</li> </ul> </li> <li>E. SAR Systems and Sensors               <ul style="list-style-type: none"> <li>E.1 Spaceborne and airborne SAR Systems and Missions</li> <li>E.2 Advanced and Innovative SAR Concepts and Modes</li> <li>E.3 Ground Based Systems</li> <li>E.4 Calibration</li> <li>E.5 Others</li> </ul> </li> <li>F. Radar Technology               <ul style="list-style-type: none"> <li>F.1 Radar Components and Subsystems</li> <li>F.2 Antenna Technology and Adaptive Arrays</li> <li>F.3 UWB, GPR, Bio-Medical Imaging Radar Systems</li> <li>F.4 Automotive Radar</li> <li>F.5 Others</li> </ul> </li> </ul> |
|---|---|

### **Important Dates**

4 31 December 2013 – Deadline for manuscript submission

January 2015 – Special issue publication in IEEE JSTARS

### **Submission guidelines**

Prospective authors should follow the regular guidelines of JSTARS, and should submit their manuscripts electronically to <http://mc.manuscriptcentral.com/jstars>. Please indicate during your submission that the paper is intended for this Special Issue. Inquiries with respect to the special issue should be directed to the Guest Editors ([yamada@ie.niigata-u.ac.jp](mailto:yamada@ie.niigata-u.ac.jp)).

### **Guest Editors**

Akira Hirose, The University of Tokyo, Japan, [ahirose@ee.t.u-tokyo.ac.jp](mailto:ahirose@ee.t.u-tokyo.ac.jp)

Paul A. Rosen, JPL, USA, [Paul.A.Rosen@jpl.nasa.gov](mailto:Paul.A.Rosen@jpl.nasa.gov)

Hiroyoshi Yamada, Niigata University, Japan, [yamada@ie.niigata-u.ac.jp](mailto:yamada@ie.niigata-u.ac.jp)

Manfred Zink, DLR, Germany, [manfred.zink@dlr.de](mailto:manfred.zink@dlr.de)