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IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
Special Issue on
“TanDEM-X: Mission and Science Achievements after 10 Years of Operations”

The German TanDEM-X (TerraSAR-X add-on for Digital Elevation Measurements) mission is celebrating its 10th anniversary since the launch on June 21, 2010 and is looking back to a successful delivery of high quality single-pass interferometric data and the global digital elevation model (DEM) product that exceeded all expectations. The highly flexible selection of baselines and acquisition geometries, as well as the highly precise determination of the orbits with its bistatic operation made it prone to both, a dedicated acquisition strategy with highly accurate DEM generation as well as to support applications based on along-track interferometry (ATI), the demonstration of new SAR techniques with the focus on multistatic SAR, polarimetric SAR interferometry, digital beamforming, super resolution and SAR tomography. DLR is coordinating the science activities of the TanDEM-X mission and also the dissemination of the data products. Currently there are ~4000 international scientists registered at the science server that are associated to around 1500 data proposals. The applications are ranging from geology, hydrology, glaciology, forest and agriculture, archeology and other applications related to the development of algorithms and methods. The goal of a special issue is to provide the opportunity to the international science community, to publish their results in a coordinated and consistent way in one journal issue.

We invite you to submit the most recent advancements in (but not limited to) the following topics:

- SAR Interferometry (Across and Along-Track)
- SAR Polarimetry
- Polarimetric SAR Interferometry
- SAR Tomography
- Digital Beamforming
- Super Resolution
- Digital Elevation Model for a diversity of applications Geology, Hydrology, Glaciology, Forest and Agriculture, Archeology and other related applications

Schedule
January 1, 2020: Submission system opening
June 30, 2020: Submission system closing

Format
All submissions will be peer reviewed according to the IEEE Geoscience and Remote Sensing Society guidelines. Submitted articles should not have been published or be under review elsewhere. Submit your manuscript on http://mc.manuscriptcentral.com/jstars, using the Manuscript Central interface and select the “TanDEM-X” special issue manuscript type. Prospective authors should consult the site https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8855039 for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format (double column, single spaced). Please visit http://www.ieee.org/publications_standards/publications/authors/music/templates.html to download a template for transactions. Please note that as of Jan. 1, 2020, IEEE J-STARTS will become a fully open-access journal charging a flat publication fee $1,250 per paper.

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