

Call for Contributions

1. Inform the Chair: with the Title of your Contribution

2. Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ALLSENSORS+2019+Special>

Please select Track Preference as **InSAR-RS**

Special track

InSAR-RS: Synthetic Aperture Radar Interferometry in Remote Sensing

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along with

ALLSENSORS 2019, The Fourth International Conference on Advances in Sensors, Actuators, Metering and Sensing

<http://www.iaria.org/conferences2019/ALLSENSORS19.html>

February 24 - 28, 2019 - Athens, Greece

Synthetic Aperture Radar (SAR) can form longer effective antenna effective lengths to achieve higher spatial resolution than conventional real aperture radars by carrying the radar on a moving platform such as an aircraft or a spacecraft. Interferometric SAR (InSAR) exploits the phase difference between two SAR images of an area, obtained either along-track or cross-track, to make accurate LOS range measurement. During the past few decades, InSAR has shown its promise in various remote sensing applications such as the generation of Digital Elevation Models (DEMs), surface deformation monitoring and ocean surface currents and waves measurements.

Unique challenges exist for accurate InSAR measurements for different remote sensing applications. The study on the instrument design, imaging algorithms and calibration schemes for both airborne and spaceborne, along-track and cross-track interferometry have been reported to improve the accuracy of the InSAR measurements. The main objective of this track is to explore the current applications with SAR interferometry and possible calibration schemes to mitigate the system or retrieval errors in various InSAR remote sensing applications.

Topics include, but not limited to:

- SAR interferometry for surface deformation monitoring in natural and man-made hazard (earthquakes, landslides, subsidence, volcanoes, urban environments, etc.)
- Along-track interferometric SAR for surface ocean surface currents estimation
- Cross-track interferometric SAR for topographic mapping
- Airborne FMCW SAR interferometry for surface motion detection
- InSAR error analysis and system calibration

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaia.org]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on www.iaia.org]

Important Datelines

- Inform the Chair: As soon as you decided to contribute
- Submission: Jan 8, 2019
- Notification: Jan 23, 2019
- Registration: Feb 3, 2019
- Camera-ready: Feb 3, 2019

Paper Format

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

<https://www.iaiasubmit.org/conferences/submit/newcontribution.php?event=ALLSENSORS+2019+Special>

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

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