

## Important Dates (preliminary)

For up-to-date workshop information please see the workshop website at:  
<http://conferences.esa.int/>

- First announcement: December 2018
- Last call for papers: March 2019
- Deadline for abstracts: 24 Jun 2019
- Acceptance notification: 9 Sep 2019
- Advance programme: 30 Sep 2019
- Deadline for papers: 7 Oct 2019
- Early registration: 14 Oct 2019
- Workshop: 11-13 Nov 2019

The workshop will be organized as both poster sessions and oral presentations

### Organisers:

[Michael.Ludwig@esa.int](mailto:Michael.Ludwig@esa.int), [Christopher.Buck@esa.int](mailto:Christopher.Buck@esa.int),  
[Jean-Christophe.Angevain@esa.int](mailto:Jean-Christophe.Angevain@esa.int), [Erik.de.Witte@esa.int](mailto:Erik.de.Witte@esa.int)

### Points of contact for technical matters:

[Michael.Ludwig@esa.int](mailto:Michael.Ludwig@esa.int), [Christopher.Buck@esa.int](mailto:Christopher.Buck@esa.int)

# Advanced RF Sensors and Remote Sensing Instruments 2019 + Ka-band Earth Observation Radar Mission 2019

## First Announcement

### 11-13 November 2019

ESA-ESTEC  
Noordwijk  
The Netherlands

6<sup>th</sup> Workshop on  
RF and Microwave Systems,  
Instruments & Sub-systems  
+ 4<sup>th</sup> Ka-band Workshop



# 6<sup>th</sup> Workshop on Advanced RF Sensors and Remote Sensing Instruments, ARSI'19

&

# 4<sup>th</sup> Ka-band Earth Observation Radar Missions Workshop, KEO'19

November 2019 will see the sixth edition of the workshop on "Advanced RF Sensors and Remote Sensing Instruments" organized by ESA/ESTEC. As in previous years, the purpose is to bring together experts from industry and research organizations to share and present their latest findings on RF remote sensing technology, processing and systems.

As was the case for ARSI'17, the main workshop is being extended to cover the related "Ka-band Earth Observation Radar Missions". This workshop has a similar character to ARSI but concentrates entirely on all aspects related to Ka-band Earth Observation instruments. Higher frequency bands may also be considered.

The objectives of the two combined workshops are to review the state of the art in current and future mission concepts including applications, science objectives, mission design and instrument technology. This includes new ideas for applications enabled by Ka-band SAR and InSAR.

The combined event will take place from **11-13 November 2019 at ESTEC**, Noordwijk, The Netherlands. Industry, researchers and engineers active in the field are cordially invited to participate and to present their latest findings.

## Workshop Topics

### Systems and Missions

- Systems and Sensors
- System Simulation and Modelling
- Formation Flying
- Innovative Concepts and Applications
- Bi- and Multi-static Radar
- Active instruments (Ka-band and beyond)
- Passive Instruments and Radiometers
- Space science and planetary instruments
- Cubesat and Mini-Satellite Instruments

### Applications

- Crisis and Disaster Management
- Urban Development
- Local DEMs and Cartography
- Reconnaissance and Surveillance Tasks
- Ship and Boat Detection and Classification
- Geology, Hydrology and Land Use
- Glaciology, Oceanography

### Technology and Sub-systems

- Instrument Front-ends
- Sub-systems
- Digital Beamforming
- Calibration and Validation
- Atmospheric and Ionospheric Corrections
- On-board Processing