

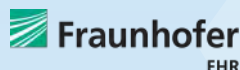


## 12<sup>th</sup> European Conference on Synthetic Aperture Radar

04.-07. June 2018  
Eurogress Aachen

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**EUSAR**, the European Conference on Synthetic Aperture Radar, is the world leading international conference dedicated to SAR techniques, technology and applications.

**EUSAR** has accompanied the worldwide evolution of high resolution imaging radar, both airborne and spaceborne, and has helped to establish an international community of SAR engineers and scientists. As in previous years, **EUSAR 2018** will provide a forum for exchanging information and discussion on a wide variety of SAR topics, representing the latest SAR developments. You are cordially invited to participate in **EUSAR 2018** to be held in Aachen, Germany. The draft paper submission deadline is **31. October 2017**.

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### ABOUT AACHEN

Aachen is love at first sight. It is situated in a virtual valley, surrounded by fields, woods and hills which makes you feel heartily welcome. At its portals - closeby where three countries meet, Germany, the Netherlands, Belgium - you find the nature reserves of the Ardennes and the Eifel. And Aachen ex-hilarates: its warm water springs have been enjoyed for more than two thousand years! The town can be easily reached via the airports of Maastricht/Aachen, Cologne and Brussels, or by fast train from Cologne/Dusseldorf, Brussels, Paris/London.

Aachen unites tradition with progress. Charlemagne has left his mark throughout the city. The cathedral - the first monument in Germany to be included in the UNESCO Cultural Heritage list - and the gothic City Hall in which 32 German kings celebrated their coronations still form the heart of Aachen's old city centre. Aachen is a modern city with its own flair, with nearly 40,000 students attending Aachen's four major colleges and elite universities, open to the world, with political, economic and cultural contacts that reach far beyond Germany's borders.



### INFORMATION AND ORGANIZATION

For up-to-date conference information visit our web site:

[www.eusar.de](http://www.eusar.de)

- For questions concerning abstracts, papers, conference program, please contact:  
Mr. Matthias Weiß: [eusar@fhr.fraunhofer.de](mailto:eusar@fhr.fraunhofer.de)
- For questions related to the conference organization (registration, hotel reservation, etc.), please contact:  
Ms. Hatice Altintas: [hatice.altintas@vde.com](mailto:hatice.altintas@vde.com)

## DRAFT PAPER SUBMISSION

Draft and final paper submission is performed via the conference managing system EDAS.

Ensure that your complete affiliation including postal address, phone number and e-mail address are up-to-date. To register and submit your draft paper, log into EDAS, press "Submit Paper" and then the **EUSAR 2018** submit button. Paper submission consists of two steps: paper registration and paper upload. During paper registration you will be asked to indicate:

- Title of the paper
- Keywords, separated by semicolons
- Add all authors as indicated in your draft paper
- Paper abstract in plain text (10...100 words)
- Paper category (please indicate your preference: Oral / Poster Presentation, and if applicable Student Paper Award)
- At least one and up to three most suitable topic areas, to be chosen from the list of conference topics.

Draft paper submissions or draft paper updates may be carried out any time after paper has been registered, but no later than the draft paper submission deadline:

**31. October 2017.**

**Note:** Only submissions in unprotected PDF format, fully embedded fonts, and size below 5 MB are accepted!

Each submitted paper should clearly and concisely state the problem addressed, describe the methodology used (e.g. including images), contain the current results and summarize the central conclusions. The title of the paper should clearly convey the essence of the work. Please avoid unusual acronyms. The draft paper must be at least two pages but should not exceed four pages. Final papers may be extended up to six pages (PDF size < 5 MB).

Authors will be kept informed via e-mail once they have registered their papers in EDAS. For assistance, please contact [eusar@fhr.fraunhofer.de](mailto:eusar@fhr.fraunhofer.de).

## FINAL PAPER SUBMISSION

Authors will be asked to submit their final paper after their draft paper has been accepted by the reviewers. The final paper in PDF format will be published in the proceedings of **EUSAR 2018** and in IEEE Xplore and indexed in Elsevier's Scopus and Thompson-Reuter's WebOfKnowledge. To be included in the proceedings at least one author has to register and pay the registration fee, at the latest by

**01. April 2018.**

One author may register up to two papers. For additional papers a surcharge must be paid. In case of late registration or late final paper submission the paper will be excluded from the conference proceedings.

## CONFERENCE TOPICS

### (A) SAR Systems and Sensors

- A1 Spaceborne SAR Systems and Missions
- A2 Airborne SAR Systems and Missions
- A3 Ground-Based SAR
- A4 Inverse SAR (ISAR)
- A5 SAR System Simulation and Modeling
- A6 Distributed SAR Systems and Missions
- A7 Next Generation SAR Systems and Missions

### (B) SAR Technology and Calibration

- B1 Antennas
- B2 Components and Subsystems
- B3 Technology Demonstrations
- B4 Advanced SAR Modes and Techniques
- B5 Calibration and Verification

### (C) SAR Processing

- C1 SAR Image Generation, Motion Compensation, and Geocoding
- C2 ISAR Signal Processing
- C3 Image Filtering, Correction, and Enhancement
- C4 MTI, GMTI, and STAP
- C5 Interferometry (Cross-Track, Along-Track, Differential, PS, ...)
- C6 Tomography, Holography, and 4-D SAR

- C7 Digital Beamforming
- C8 Advanced Processing Techniques (Compressive Sensing, Multi-Aperture, MIMO, ...)

### (D) SAR Data Evaluation and Modeling

- D1 Electromagnetic Modeling and Wave Propagation
- D2 Polarimetry
- D3 Polarimetric Interferometry
- D4 Segmentation, Feature Extraction, and Analysis
- D5 Image Filtering, Correction and Enhancement
- D6 Classification
- D7 Product Validation, Data Fusion and Value Adding

### (E) SAR Applications

- E1 Land Use and Land Cover
- E2 Urban Areas
- E3 Soil and Vegetation
- E4 Maritime and Ocean
- E5 Snow, Ice, and Glacier
- E6 Topography and Solid Earth
- E7 Surveillance, Security, and Disaster
- E8 Other Applications

### (F) Other SAR Related Subjects

## IMPORTANT DATES

- Deadline for draft paper submission: 31. October 2017
- Notification of paper acceptance: 15. January 2018
- Deadline for final paper submission and for authors conference registration: 01. April 2018
- Tutorials: 04. June 2018
- Conference **EUSAR 2018**: 05.-07. June 2018
- Technical Tour: 08. June 2018