

Call for Papers



13th European Conference on Synthetic Aperture Radar

15 - 18 June 2020, Leipzig, Germany



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 synthetic aperture imaging radar, both air-borne and spaceborne, and has helped to establish an international community of SAR engineers, scientists and users. As in previous years, **EUSAR 2020** 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 2020** to be held in Leipzig, Germany.

The preliminary paper submission deadline is **31. October 2019**.

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Conference Organization	H. Altintas, VDE
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Leipzig: a congress location with flair and imagination

A city with a tradition for its hospitality and its cosmopolitan reach.

One of the oldest trade-fair locations in the world, the City of Leipzig has always been a place to meet and exchange ideas and experiences as well as goods. The little town at the intersection of the two great trading routes, the Via Regia and the Via Imperii, received its City Charter and Market Privilege as far back as 1165. Leipzig subsequently developed into the most important trading centre in Central Europe and became a magnet for business *folk* and merchants from all over the world. Leipzig is the city of its citizens: since the Middle Ages, it is the people of Leipzig themselves who have, with their incomparable drive, determination and commitment, made it what it is today: a city of verve and vision, which has seen the birth of numerous new departures, not least, the peaceful revolution of 1989.

Venue

KONGRESSHALLE am Zoo Leipzig
Pfaffendorfer Straße 31
04105 Leipzig

Information and Organization

For up-to-date conference information visit our web site: www.eusar.de

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

Organized by **VDE** ITG



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Preliminary Paper Submission

Preliminary 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 preliminary paper, log into EDAS, press "Submit Paper" and then the **EUSAR 2020** 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 preliminary 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.

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

31. October 2019.

Note: Only submissions in unprotected PDF format, fully embedded fonts, and size below 5 MB will be 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 preliminary paper must be at least two pages but should not exceed six 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.

Final Paper Submission

Authors will be asked to submit their final paper after their preliminary paper has been accepted by the reviewers. The final paper in PDF format will be published in the proceedings of **EUSAR 2020** 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 2020.

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

- Abstract submission deadline: 31. October 2019
- Notification for authors: 31. January 2020
- Full paper submission deadline and for authors conference registration: 01. April 2020
- Tutorial day: 15. June 2020
- Conference EUSAR 2020: 15.-18. June 2020
- Technical Tour: 19. June 2020