

Welcome Message of the General Chairmen



It is a great pleasure for us to welcome you to EUSAR 2024 in Garching near Munich. This is the 15th European Conference on Synthetic Aperture Radar, which has been held every two years since 1996. Over the years EUSAR, the first dedicated conference on Synthetic Aperture Radar, has become the leading international event gathering world-class scientists and engineers working in the fields of SAR techniques, technology, and applications. EUSAR has accompanied the worldwide de-

velopments in high resolution imaging radar and has helped to establish an international community of SAR experts. We look forward to welcoming leading experts from various disciplines and from more than 35 countries to present almost 280 papers. It is the open spirit of this conference that will provide an excellent forum for exchanging information and discussions on a wide variety of SAR-related topics and latest developments.

SAR systems are today an indispensable data source for high-resolution 2D and 3D mapping, environmental and disaster monitoring as well as security related applications. Over the years, the number of SAR missions has increased significantly and there are currently more than 50 operational SAR satellites in orbit. Current SAR missions are operational and, in addition to their scientific exploitation, SAR data and products have gained a considerable share of the commercial EO markets. SAR techniques and information extraction have matured in various domains, enabling operational applications and services, like for example in the European Copernicus programme. Beyond the various sessions on current and future missions, SAR technology as well as imaging and processing techniques, the technical program also includes a number of sessions on data evaluation and applications in various fields.

The Science Congress Center Munich is located at the Garching campus of the Technical University of Munich. Via the local public transportation it is directly connected to the city centre of Munich. Munich - the capital of Bavaria - is a city with 850 years of history, full of culture, music, natural beauty, charm and hospitality. With a total population of around 1.6 million people Munich is the third largest city in Germany after Berlin and Hamburg. The city boasts attractive architecture, with palaces and churches, museums, theatres, nearby fairytale castles and idyllic mountain resorts in the Bavarian Alps. Munich is also a centre of high-tech science and home to four universities, research institutes, software companies, aerospace industry and various international companies, making it an ideal location for EUSAR 2024.

We look forward to welcoming you in Munich during EUSAR 2024.

Andreas Reigber and Manfred Zink, DLR
EUSAR 2024 General Chairmen

Welcome Message of the Technical Chairmen



On behalf of the Technical Program Committee, we are pleased to welcome you to the 15th European Conference on Synthetic Aperture Radar (EUSAR 2024) in Munich, Germany. The conference will bring together experts from academia, industry, and research organizations to discuss the latest developments and achievements in the field of synthetic aperture radar and its various applications in remote sensing.

The overwhelming response of more than 300 papers submitted by authors from 34 countries shows the popularity and importance of this international conference. All major fields of SAR are covered, including the latest results from SAR missions and systems, new SAR techniques and technologies, advanced SAR processing algorithms, SAR system calibration and validation, novel information retrieval algorithms and innovative applications. The submitted papers were reviewed by a technical program committee encompassing 129 internationally renowned SAR experts. Based on the reviewers' comments, 200 papers were selected for oral presentations in four parallel sessions and 75 papers for an interactive poster presentation.

After five tutorials on Tuesday, the conference starts on Wednesday morning with a plenary session featuring overview presentations from three distinguished keynote speakers: Henri Laur, Head of Mission Management and Product Quality Division in the Earth Observation Directorate of ESA, Lee-Lueng Fu, Senior Research Scientist at the Jet Propulsion Laboratory, and Rafal Modrzewski, CEO and Co-founder of ICEYE in Finland. Afterwards, four oral sessions will be held in parallel. By grouping the presentations into four categories and assigning them to different meeting rooms, we tried to minimize mutual overlaps as far as possible. Special attention should also be given to our poster session, which is scheduled for Wednesday evening together with our reception.

Prizes for the best oral paper, the best poster and the three best student papers will be awarded at the closing ceremony on Friday afternoon. The winners will be selected after careful evaluation by an independent awards committee led by Prof. Pierfrancesco Lombardo from Sapienza University of Rome. All papers received before the deadline and presented at the EUSAR conference will be included in the SCOPUS database and published both in the conference proceedings and in IEEE Xplore.

We would like to thank all authors for their contributions and the technical program committee for their timely and competent evaluation of the submitted papers. We also thank the invited session organizers for composing their sessions and evaluating the associated papers. Furthermore, we thank the session chairs for hosting their sessions and the awards committee for their thorough and independent evaluation. Special thanks also go to Jens Fischer, Simon Anger and Allan Bojarski for managing the EDAS database and their great support in interacting with the authors and session chairs.

We wish you all an inspiring conference participation full of lively discussions and new insights. We also hope that the conference will help to expand your network and renew friendships with your colleagues. Enjoy your stay in Munich!

Gerhard Krieger and Michelangelo Villano
EUSAR 2024 Technical Chairmen