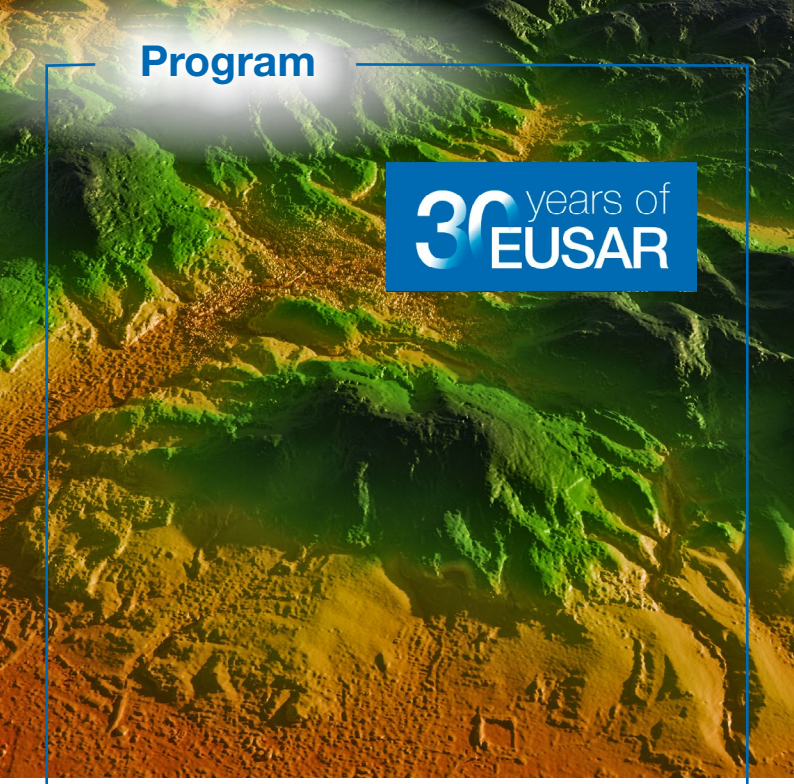
Program



EUSAR 2026

16th European Conference on Synthetic Aperture Radar

June 08 – 11, 2026
Kongresshaus Baden-Baden, Germany

www.eusar.de

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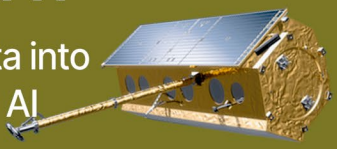
SAR2Height urban model of Berlin, Germany

SAR2Height - Deep Learning for Radar-Based Urban Modeling with TerraSAR-X

Transforming 2D SAR data into 3D insights - powered by AI



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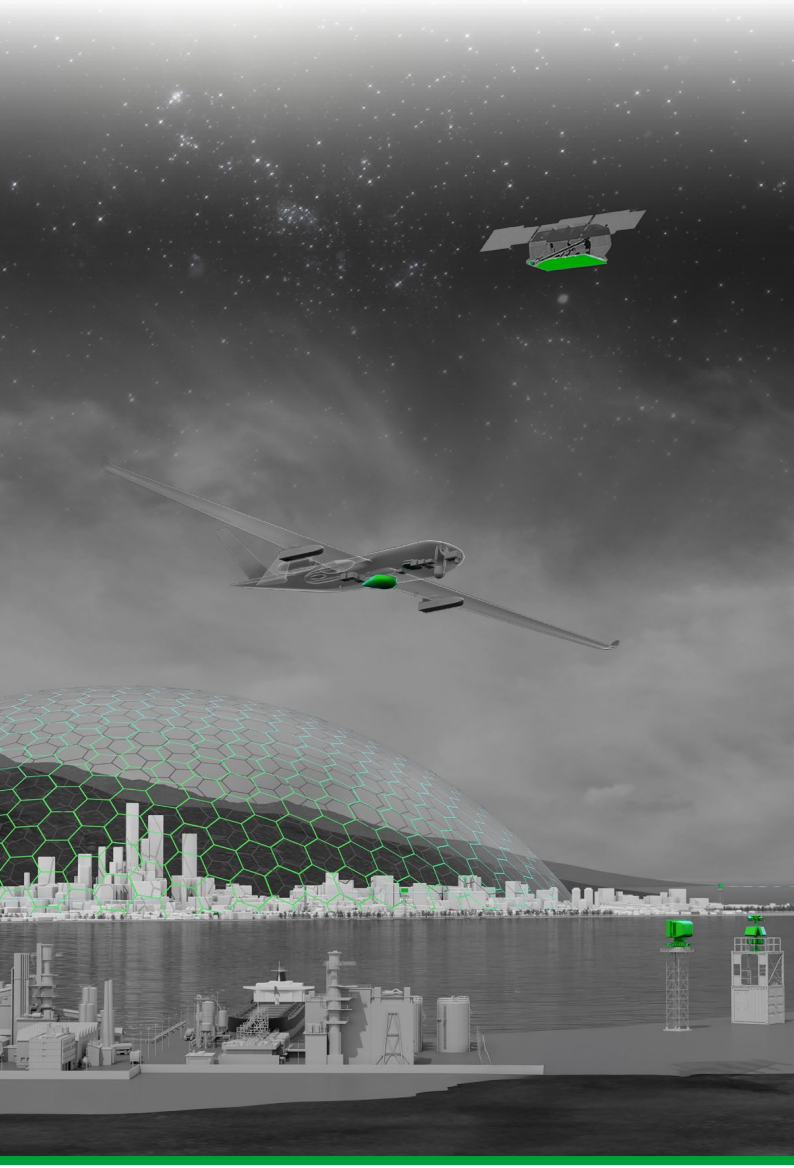
Airborne and Spaceborne SAR for Intelligence Surveillance and Reconnaissance



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Welcome Message of the General Chairmen

On behalf of the EUSAR Organising Committee, we welcome you to the 30-year anniversary edition of the EUSAR conference in Baden-Baden. For three decades EUSAR has traced current developments and future directions of earth-observation imaging radar, establishing an active, well-connected network of researchers and practitioners. We encourage you to seize every opportunity to exchange ideas, discuss challenges and expand your contacts.

The importance of SAR for governments, scientists, industry and everyday life has grown enormously. Besides the growing demand for numerous institutional missions, a rapid ramp-up of new initiatives that provide commercial data at significant scale have made resilient, responsive, reliable data sources increasingly relevant. This popularisation of SAR makes the community act diversely: providing more capable institutional systems and solutions with shorter development cycles at lower costs. We are delighted that Dr. Dietmar Pilz will share ESA's view on SAR's technical evolution in our first keynote. Multistatic observation is gaining momentum, introducing new challenges in synchronisation and phase referencing across distributed platforms; this will be addressed by our second keynote, Dr. Eric Villard, who brings an "outside" perspective from his work in radio astronomy at the European Southern Observatory. Because growing capabilities generate huge data volumes, automation is essential; consequently, AI techniques are emerging as a dominant trend in SAR data exploitation. Prof. Michael Schmitt will present his perspective on this development.

Based on the evaluation of the Technical Programme Committee (TPC), this year's edition of EUSAR has accepted around 330 contributions—invited talks, regular papers and posters. We enjoy excellent international participation and a broad, diverse programme. This programme is built around invited sessions covering recently commissioned space-borne SAR missions such as NISAR, BIOMASS and ALOS-4, as well as updates on operational missions like Sentinel-1, Cosmo-SkyMED and TanDEM-X. Also spaceborne missions under implementation and new mission ideas will be covered e.g. by Harmony, national missions developed under ESA supervision, interplanetary SAR missions, ROSE-L. We will address emerging topics such as AI, RF-interference and UAV-based SAR. Contributions on relevant technologies are highlighted in two invited sessions on SAR front-ends and back-ends. The regular sessions, of course, cover the traditional topics of SAR applications, image processing and calibration, as well as multistatic and interferometric systems. A large number of important contributions will be presented as posters during the Wet

Poster Session on Tuesday evening, providing an opportunity for in-depth discussion with the authors. You are invited to vote for the best SAR image displayed during the conference and we appreciate the effort of the independent awards committee organised by Prof. Lombardo and their careful considerations to select the best paper, best poster and the three best student papers. The winners will be announced during the Awards Ceremony during the closing session on Thursday afternoon.

Take the opportunity to celebrate the EUSAR anniversary with the conference dinner at the historic Kurhaus Baden-Baden, located near the famous casino. We are grateful to the city of Baden-Baden for hosting us this year. The congress centre provides an ideal location, and many hotels are within walking distance, allowing you to extend your stay and enjoy the city with friends and colleagues. Baden-Baden has been known as the Summer Capital of Europe since the 19th century, a place where scientists, artists and political leaders have met for informal exchanges. This week we continue that tradition, advancing ideas through collaboration and interdisciplinary thinking in our field. If you have spare time, consider visiting the famous Frider Burda Museum, just around the corner, or exploring the nearby Black Forest.

Finally, we thank all authors for their contributions and the entire TPC for their thorough and timely reviews. We also thank the chairs of the invited sessions for organising and coordinating the contributions, and all session chairs for their availability throughout the conference. Thanks to Dr. Matthias Weiß and the tutorial speakers we can offer interesting SAR tutorials on Monday. We appreciate the support of all sponsors and exhibitors, and thank Arturo Arango-Selga for his leadership as chair of the exhibition. Special thanks go to Jens Fischer for his excellent support on all EDAS topics, drawing on his experience from previous EUSAR conferences and his communication with the publication bodies, and to Nicolas Parisel for his prompt responses to any issues and his support for the authors.

We wish you an enjoyable conference—meet your peers, share your thoughts with the authors and presenters, and engage in fruitful discussions!

Grzegorz Adamiuk and
Martin Stangl
Airbus Defence and Space
EUSAR 2026 Chairmen

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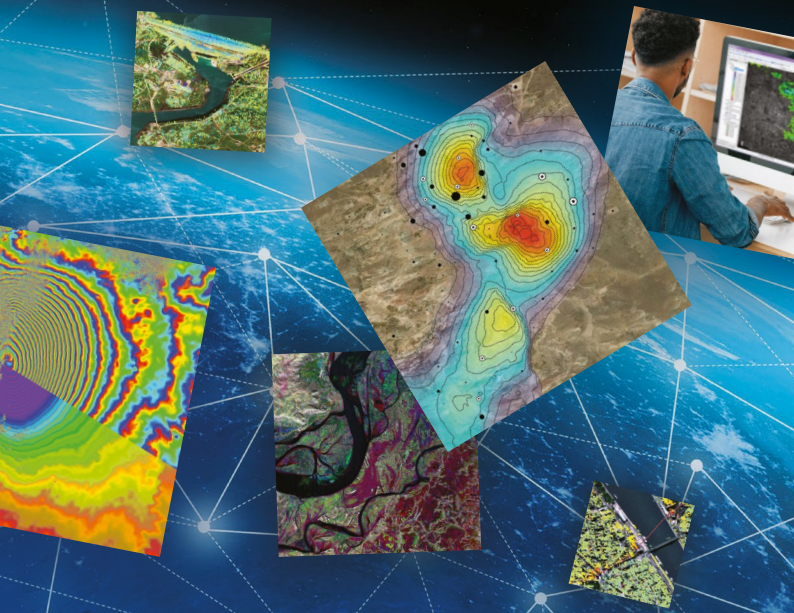

NV5

Meet NV5 on booth # 4

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MDA SPACE

BOOTH #8

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Conference Topics

(A) SAR Systems and Sensors

A1 Spaceborne SAR Systems and Missions
A2 Airborne SAR Systems and Missions
A3 UAV-based SAR Systems
A4 Ground-Based SAR
A5 Inverse SAR (ISAR)
A6 SAR System Simulation and Modeling
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
B6 Digital Beamforming
B7 Photonic and Quantum Radar

(C) SAR Signal 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 Advanced Processing Techniques (Compressive Sensing, Multi-Aperture, …)
C8 Artificial Intelligence/Machine Learning in SAR processing (on-board & on-ground)

(D) SAR Data Evaluation and Modeling

D1 Electromagnetic Modeling and Wave Propagation
D2 Polarimetry
D3 Polarimetric Interferometry
D4 Segmentation, Feature Extraction, and Analysis
D5 Product Validation, Data Fusion and Value Adding
D6 Machine Learning and Artificial Intelligence assisted automatic data evaluation
D7 Quantum Computing

(E) SAR Applications

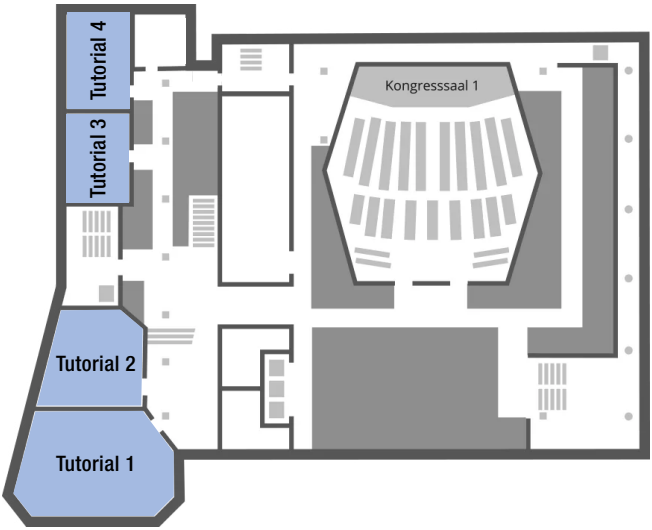
E1 Land Use and Land Cover
E2 Urban Areas
E3 Soil and Vegetation
E4 Maritime and Ocean
E5 Snow, Ice and Glaciers
E6 Topography and Solid Earth
E7 Surveillance, Security and Disaster
E8 Other Applications

(F) Other SAR-Related Subjects

F1 Other SAR Related Subjects

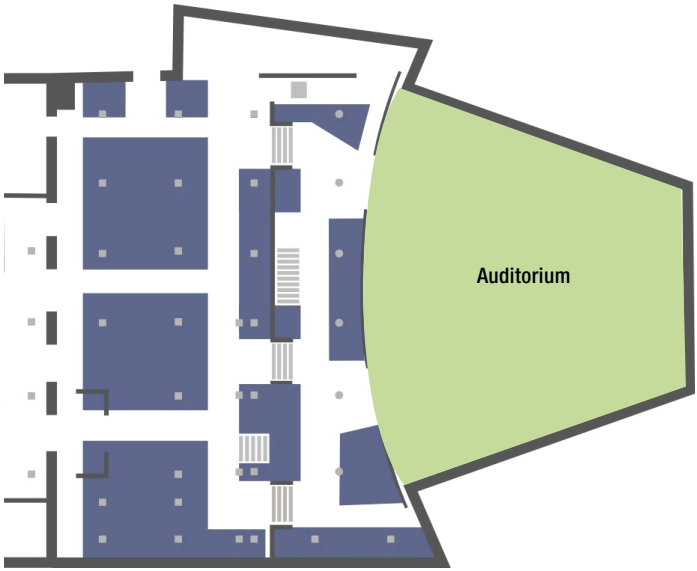
Overview of the Conference Rooms

Tutorials Rooms
Tutorials 1-4 (1st Floor)



Tutorial 5 (Ground Floor)

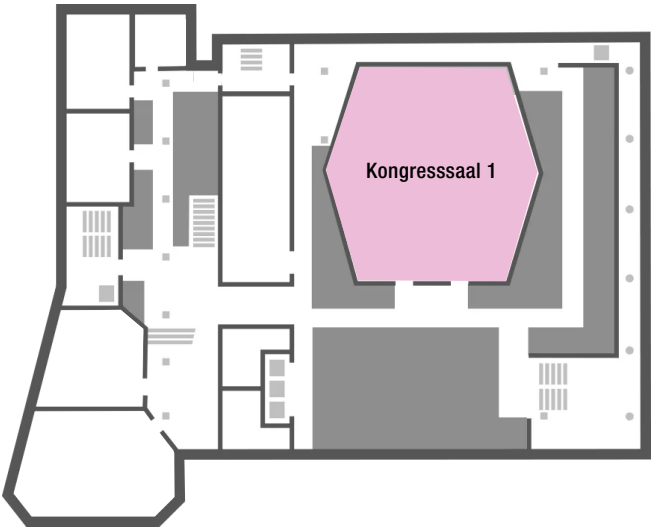
Auditorium (Basement)



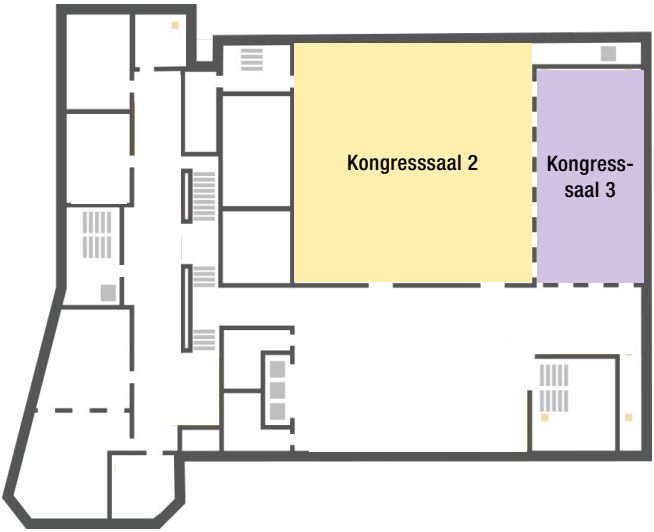
Forum (Ground Floor)

Overview of the Conference Rooms

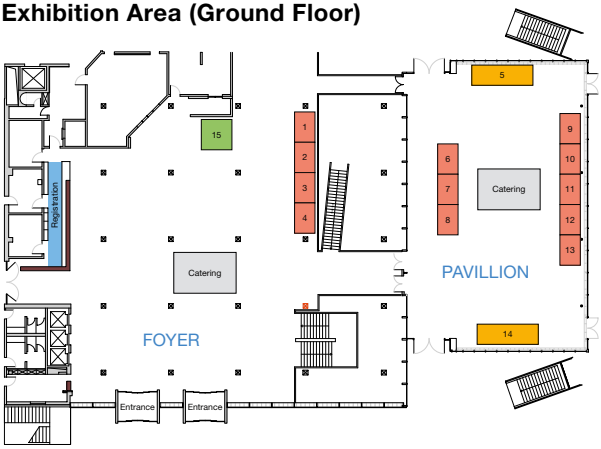
Kongresssaal (1st Floor)



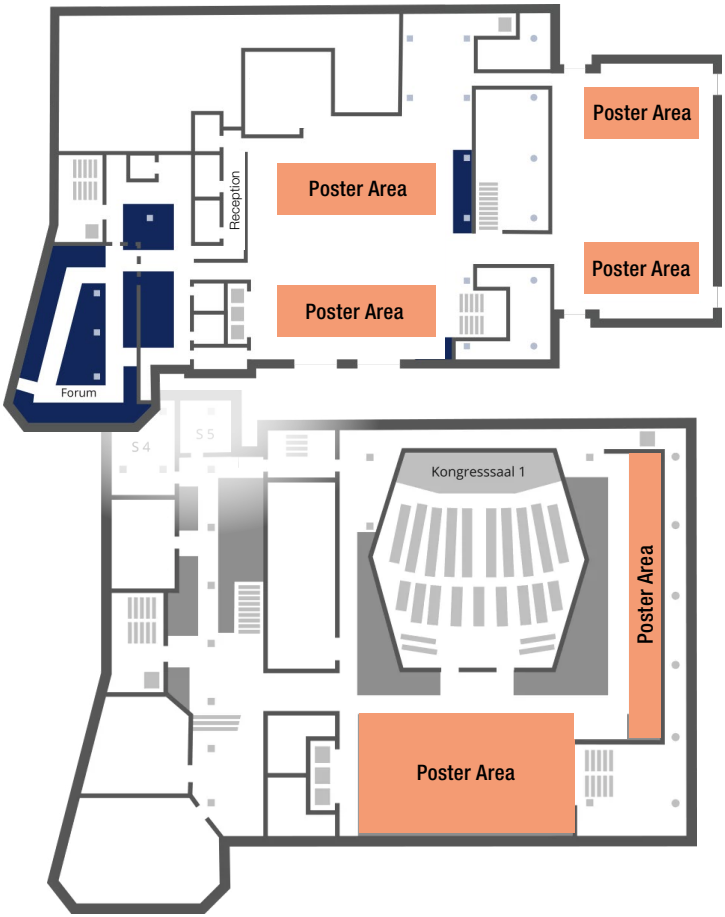
Kongresssaal 2 & 3 (2nd Floor)



Exhibition Area (Ground Floor)



Poster Area (Ground Floor & 1st Floor)



Program Overview Tutorials

Time	Tutorial Area Room 1	Tutorial Area Room 2	Tutorial Area Room 3
Monday, June 8			
08:00 – 09:00	Foyer *Registration*		
09:00 – 15:30	**T1:** Multidimensional SAR & MTI Techniques p30	**T2:** Spatial Diversity Imaging Systems p30	**T3:** Polarimetric SAR, Pol-In SAR and SAR on small platforms p31
18:00 – 21:00	Foyer *EUSAR 2026 Talent Night*		

Time	Tutorial Area Room 4	Tutorial Area Room 5	
Monday, June 8			
08:00 – 09:00	Foyer *Registration*		
09:00 – 15:30	**T4:** SAR image analysis using deep learning p31	**T5:** From Space-based SAR Data to Earth Observation Services p32	
18:00 – 21:00	Foyer *EUSAR 2026 Talent Night*		

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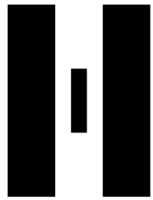
EUSAR 2026 Talent Night

Room: Foyer

Monday, June 8 **18:00 - 21:00**

Hosted by our partner Helsing GmbH, the EUSAR 2026 Talent Night is an exclusive networking evening designed to connect industry representatives with outstanding young professionals and emerging talents from the international Synthetic Aperture Radar (SAR) community.



- **Meet tomorrow's SAR experts** – Recruit and connect with outstanding young professionals and emerging talents from the international SAR community.
- **Prime networking time: Monday, June 8, 2026, 18:00–21:00** in the **exhibition space at Kongresshaus Baden-Baden**.
- **Relaxed & inspiring atmosphere** – A smooth evening designed for open conversations, new ideas, and meaningful encounters.
- **Talent meets industry** – Exhibitors gain direct access to the next generation of innovators, researchers, and practitioners.
- **Enjoy snacks & drinks** while building valuable connections beyond the conference program.
- **More than recruiting** – Discover fresh perspectives and shape the future of SAR together.

Program Overview Sessions

Time	Auditorium	Forum
Tuesday, June 9		
08:00 – 09:00	*Registration*	
09:00 – 09:10	Welcome p34	
09:10 – 09:40	Keynote I Dr. Dietmar Pilz p34	
09:40 – 10:10	Keynote II Dr. Eric Villard p35	
10:10 – 10:40	Keynote III Prof. Michael Schmitt p36	
10:40 – 10:50	Program Overview p37	
10:50 – 11:20	Foyer *Coffee Break & Exhibition*	
11:20 – 13:00	A.1: UAV Based SAR Imaging (Invited) p38	B.1: Spaceborne SAR Techniques I p39
13:00 – 14:00	Foyer *Lunch Break & Networking*	
14:00 – 15:40	A.2: UAV-Based SAR Interferometry, Tomography and Multistatic Techniques (Invited) p45	B.2: Spaceborne SAR Techniques II p46
15:40 – 16:10	Foyer *Coffee Break & Exhibition*	
16:10 – 17:50	A.3: UAV SAR Demonstrations and Applications p52	B.3: Compact SAR instruments in the ESA National Programmes (Invited) p53
18:00 – 22:00	Foyer + Poster Area p58 *Get Together & Poster Session*	

Kongresssaal 1	Kongresssaal 2	Kongresssaal 3
Tuesday, June 9		
Registration		
Coffee Break & Exhibition		
C.1: Cognitive SARs and Related Applications (Invited) p40	D.1: Biomass Commissioning and First Results (Invited) p42	E.1: Urban Areas p43
Lunch Break & Networking		
C 2: SAR Calibration p48	D.2: Biomass Applications p49	E.2: TanDEM-X Mission Status, Products and 4D-Phase (Invited) p50
Coffee Break & Exhibition		
C.3: Radio Frequency Interference in SAR Remote Sensing (Invited) p54	D.3: Biomass Applications and Atmosphere Correction p55	E.3: SAR Image Generation, Correction and Geocoding p56
Foyer + Poster Area p58		
Get Together & Poster Session		

Program Overview Sessions

Time	Auditorium	Forum
Wednesday, June 10		
08:30 – 09:00	Foyer *Registration*	
09:00 – 10:40	A.4: Spaceborne SAR Missions p76	B.4: Multistatic SAR I p77
10:40 – 11:10	Foyer *Coffee Break & Exhibition*	
11:10 – 12:50	A.5: ALOS-4 Mission Applications and Results (Invited) p83	B.5: Advances in SAR Modes and Techniques I p84
12:50 – 14:00	Foyer *Lunch Break & Networking*	
14:00 – 15:40	A.6: ROSE-L Project Development Status (Invited) p91	B.6: Advances in SAR Modes and Techniques II p93
15:40 – 16:10	Foyer *Coffee Break & Exhibition*	
16:10 – 17:50	A.7: SAR System/Payload Equipment p100	B.7: Next Generation SAR Systems p101
19:00 – 23:00	*Conference Dinner at Kurhaus Baden-Baden*	

Kongresssaal 1	Kongresssaal 2	Kongresssaal 3
Wednesday, June 10		
Registration		
C 4: SAR Meets Foundation Models: From Pretraining to Downstream Tasks (Invited) p78	D.4: Sentinel-1 Mission Update and Experiments (Invited) p79	E.4: Security and Surveillance Applications p81
Coffee Break & Exhibition		
C.5: Next-Gen AI for SAR: Multi-Modal Learning, Generative Models, and Earth Observation Insights I (Invited) p86	D.5: Sentinel-1 II (invited) p88	E.5: Ocean Waves and Sea State Information (Invited) p89
Lunch Break & Networking		
C 6: Next-Gen AI for SAR: Multi-Modal Learning, Generative Models, and Earth Observation Insights II (Invited) p94	D.6: Cosmo-SkyMed Second Generation: Mission and System (Invited) p96	E.6: Ship Detection and Maritime Applications p98
Coffee Break & Exhibition		
C.7: Harmony (Invited) p103	D.7: Cosmo-SkyMed Second Generation: Applications (invited) p105	E.7: SAR Tomography p107
Conference Dinner at Kurhaus Baden-Baden		

Program Overview Sessions

Time	Auditorium	Forum
Thursday, June 11		
09:00–10:40	A.8: Multistatic SAR II p109	B.8: SAR Frontend Technologies and Building Blocks (Invited) p110
10:40–11:10	Foyer *Coffee Break & Exhibition*	
11:10–12:50	A.9: Airborne and HAPS SAR p120	B.9: SAR Backends (Invited) p121
12:50–14:00	Foyer *Lunch Break & Networking*	
14:00–15:40	A.10: Systems with Synthetic Aperture p129	B.10: On-Board SAR processing p130
15:40–16:00	Awards Ceremony	

Kongresssaal 1	Kongresssaal 2	Kongresssaal 3
C 8: AI in SAR Processing p112	D.8: First Year of NISAR I (Invited) p114	E.8: Snow, Ice and Glacier Applications p118
Coffee Break & Exhibition		
C.9: SAR Interferometry I p123	D.9: First Year of NISAR II (Invited) p125	E.9: Biomass Performance p127
Lunch Break & Networking		
C 10: SAR Interferometry II p132	D.10: Interplanetary SAR Missions p134	E.10: Soil Moisture and Vegetation p136

Monday, June 8 — 09:00 – 15:30
Tutorials

Tutorial Area: Room 1

Tutorial 1: Multidimensional SAR & MTI Techniques

09:00	**SAR Interferometry: an Introduction** *Alessandro Ferretti (TRE ALTAMIRA, Italy)*
10:30	Coffee/Tea Break
11:00	**SAR Tomography and Multi-Dimensional Imaging** *Gianfranco Fornaro (IREA-CNR, Italy)*
12:30	Lunch Break
14:00	**Multi-channel synthetic aperture sonar** *Roy E Hansen (FFI, Norway)*
15:30	End of Tutorial

Tutorial Area: Room 2

Tutorial 2: Spatial Diversity Imaging Systems

09:00	**Bi- and Multistatic SAR** *Paco López Dekker (TU Delft, Netherlands)*
10:30	Coffee/Tea Break
11:00	**Distributed SAR/ISAR imaging** *Ingo Walterscheid (Fraunhofer FHR, Germany; Debora Pastina (Uni. Sapienza, Roma, Italy)*
12:30	Lunch Break
14:00	**Circular SAR imagery and applications** *Frederic Brigui (ONERA, France)*
15:30	End of Tutorial

Monday, June 8 09:00 – 15:30
Tutorials

Tutorial Area: Room 3

Tutorial 3: Polarimetric SAR, Pol-In SAR and SAR on small platforms

09:00	**SAR Polarimetry** *Laurent Ferro-Famil (Rennes, France)*
10:30	Coffee/Tea Breakk
11:00	**Pol-InSAR and Applications** *Konstantinos Papathanassiou (DLR, Germany)*
12:30	Lunch Break
14:00	**SAR systems for small UAV platforms: concepts and applications** *Miguel Caro Cuenca (TNO, Netherlands)*
15:30	End of Tutorial

Tutorial Area: Room 4

Tutorial 4: SAR image analysis using deep learning

09:00	**Part 1** *Simon Wagner (Fraunhofer FHR, Germany)*
10:30	Coffee/Tea Break
11:00	**Part 2** *Francescopaolo Sica (Universität der Bundeswehr, Germany)*
12:30	Lunch Break
14:00	**Part 3** *Nicolas Trouve (ONERA, France)*
15:30	End of Tutorial

Monday, June 8 — 09:00 – 15:30
Tutorials

Tutorial Area: Room 5

Tutorial 5: From Space-based SAR Data to Earth Observation Services

09:00	**Welcome, Introduction, and Overview** *Dr. Emlyn Hagen (NV5 Geospatial)*
09:15	**StarSAR-X and the Evolution of High-Resolution Spaceborne SAR** *Dr. Adriano Meta (Metasensing)*
09:45	**Innovative SAR Applications** *Nicolai Holzer & Dr. Emlyn Hagen(NV5 Geospatial)*
10:30	Coffee/Tea Break
11:00	**Operational SAR Applications with ENVI SARscape** *Dr. Giulia Tessari (sarmap)*
11:45	**Agentic AI Powering ENVI SARscape** *Nicolai Holzer (NV5 Geospatial) & Lucrezia Tosato (sarmap)*
12:30	Lunch Break

14:00 **SAR-based Insights with ENVI Inform**
David Burridge & Alice Fox (NV5 Geospatial)

14:45 **SAR-based Digital Elevation Models: Applications from Global to Urban Scales**
Dr. Oliver Lang (Airbus)

15:30 **From SAR Imagery to operational Impact**
Nicolai Holzer & Dr. Emlyn Hagen (NV5 Geospatial)

16.00 **Summary and Close of the Session**
Dr. Emlyn Hagen (NV5 Geospatial)

Tuesday, June 9 — 09:00 – 11:20
Keynotes & Introduction

Room: Auditorium

09:00 **Welcome**
Grzegorz Adamiuk / Martin Stangl (Airbus Defence and Space)

09:10 **Keynote I / Room: Auditorium**

The Future of Earth Observation: Space-borne SAR Trends and Technologies
Dr. Dietmar Pilz
European Space Agency (ESA)

Dietmar Pilz is Director of Technology, Engineering and Quality (D/TEC), European Space Agency (ESA); Head of Establishment, ESTEC, Noordwijk, Netherlands. He is a Senior European Space Manager with over 20 years of experience in general management, engineering, site leadership, and space systems development. Known for strategic leadership, transformation initiatives, and cross-national team integration.

At ESA, Dr. Pilz leads a team of over 950 staff and 200 contractors, overseeing engineering and quality resources for all missions, R&D programs (GSTP, TDE, Discovery), and ESA's educational initiatives. He chairs the European Cooperation for Space Standardization and drives ESA's technology strategy, including AI and serialization centers. As Head of ESTEC, he manages Europe's largest space technology center, representing ESA in the Netherlands and overseeing site operations, safety, and public engagement.

At Airbus Defence & Space, he held leadership roles including Head of Space Chief Engineering, Head of Site Friedrichshafen, and Head of Payloads and Life Support Systems. He led multinational teams, managed large-scale R&D and product lines (Astrobus, Eurostar Neo, OneSat), and spearheaded digital transformation in engineering and data management.

Earlier, he worked in border security systems in Saudi Arabia, naval radar development, and space electronics for TerraSAR-X.

09:40 **Keynote II / Room: Auditorium**

"High-Resolution Eyes on the Cosmos: The Future of Submillimeter Interferometry".
Dr. Eric Villard
The European Organisation for Astronomical Research in the Southern Hemisphere (ESO)

Dr. Eric Villard is an astronomer at the European Southern Observatory (ESO), where he specializes in millimeter and submillimeter interferometry with the Atacama Large Millimeter/submillimeter Array (ALMA). Over the past sixteen years, he has contributed to ALMA's scientific operations, technical development, and strategic planning, with a focus on improving the observatory's data quality and scientific reach.

At ALMA, Dr. Villard has held several leadership positions, including Commissioning Scientist, Lead of Science Verification, Lead of Data Processing, and Lead of the Development of New Scientific Capabilities. He currently leads the Advanced Data Product Initiative at ESO/ALMA, which aims to enhance the accessibility and scientific value of ALMA data for the research community. He also represents Europe in the ALMA Integrated Development Team, coordinating long-term development activities across the international partnership.

Before joining ESO, Dr. Villard worked on the Venus Express mission, where he used the SPICAV ultraviolet/near-infrared spectrometer to study the Venusian atmosphere and its composition. Building on this experience, his current interests extend toward the next generation of observatories. He leads the Space Array Initiative and the SHARP proposal, which explore the extension of submillimeter interferometry into space to achieve higher angular resolution and more complete coverage.

Dr. Villard's work focuses on advanced data products, interferometric imaging, and the technological and operational developments that will define the future of radio astronomy, both on the ground and in orbit.

10:10 **Keynote III / Room: Auditorium**

AI for SAR – Trends, Challenges, and Perspectives
Prof. Michael Schmitt
Bundeswehr University Munich

Michael Schmitt is Full Professor and Head of the Earth Observation Lab at the Department of Aerospace Engineering at the University of the Bundeswehr Munich (UniBw M), Germany. Previously, he held positions as Research Assistant, Visiting Scholar, and Consulting Senior Scientist at the Technical University of Munich (TUM), the University of Massachusetts Amherst, and the German Aerospace Center (DLR), respectively.

He serves the scientific community as a Co-Chair of the ISPRS working group on Active Microwave Sensing, and as Ordinary Member of the German Geodetic Commission (DGK) at the Bavarian Academy of Sciences (BAdW). He is also a Senior Member of the IEEE and an Associate Editor of the IEEE Geoscience and Remote Sensing Magazine.

His research focuses on the intersection of synthetic aperture radar (SAR) remote sensing and computer vision/machine learning for extracting information from signals and images. He has authored more than 200 scientific publications, filed several patents, and published first textbook on deep learning for SAR.

Tuesday, June 9 — 09:00 – 11:20
Keynotes & Introduction

Room: Auditorium

10:40 **Program Overview**
Grzegorz Adamiuk / Martin Stangl (Airbus Defence and Space)

10:50 – 11:20 Coffee Break & Exhibition

Room: Auditorium

A.1 UAV Based SAR Imaging (Invited)
Chairs: Patrick Berens (Fraunhofer FHR, Germany); Angel Ribalta (Fraunhofer FHR, Germany)

11:20 **GAMMA S-Band and L-Band SAR Systems for UAV-borne SAR Imaging and Interferometric Applications**
Charles Werner (GAMMA Remote Sensing Research and Consulting AG, Switzerland); Othmar Frey (ETH Zurich & Gamma Remote Sensing, Switzerland); Silvan Leinss and Tobias Batt (Gamma Remote Sensing AG, Switzerland); Timothy Dixon and Taha Sadeghi Chorsi (University of South Florida, USA); Elias J. Deeb, Adam L. Lewinter, Dominic L Filiano and Cameron J Wagner (Cold Regions Research and Engineering Laboratory (CRREL), USA)

11:40 **Experimental Evaluation of Motion Compensation for Compact Wire Detection Radar**
Keith T.J. Klein and Matern P.G. Otten (TNO, The Netherlands)

12:00 **A Multi-Channel K-Band UAV-SAR System for 3D Mapping, GMTI, and RFI Analysis**
Gabriel Otero Pérez and Emiliano Casalini (University of Zurich, Switzerland); Peter Brotzer (Universiry of Zurich, Switzerland); Elias Mendez Dominguez (University of Zurich & Remote Sensing Laboratories, Switzerland)

12:20 **Multi-Perspective, UAV-Based Passive SAR Imaging**
Ali Bekar and Michail Antoniou (University of Birmingham, United Kingdom (Great Britain))

13:00 – 14:00 Lunch Break & Networking

12:40 **BANet: A Regression-Based Backprojection Autofocus Network for SAR Imagery**
Kannan Balakrishnan (Fraunhofer-Institut Für Hochfrequenzphysik Und Radartechnik FHR', Germany); Stephan Palm (Quantum-Systems GmbH, Germany)

Room: Forum

B.1 Spaceborne SAR Techniques I
Chairs: Javier del Castillo Mena (Airbus Defence and Space, Spain); Gordon Farquharson (Capella Space, USA)

11:20 **Correction of Residual Range Deviation in Very High Resolution SAR Images**
Ozan Dogan (ICEYE OY, The Netherlands); Vladimir Ignatenko (ICEYE, Finland); Andrea Radius (ICEYE OY, Finland); Risto Vehmas Risto Vehmas (ICEYE Oy, Finland); Matthew Nottingham (ICEYE, Finland); Leszek Lamentowski (ICEYE Oy, Poland); Jan Krecke (ICEYE OY, Italy); Darren Muff (ICEYE, Finland)

11:40 **An Extended PCA Algorithm for Phase Error Retrieval in Long-Baseline Bistatic SAR**
Gianluca Coppa and Antonio Gigantino (University of Naples Federico II, Italy); Francesca Pelliccia (Università degli Studi di Napoli Federico II, Italy); Maria Salvato, Alfredo Renga and Andrea Mazzeo (University of Naples Federico II, Italy)

12:00 **Mitigation of GPS Signal Interference for TanDEM-X**
Johannes Böer and Markus Bachmann (German Aerospace Center (DLR), Germany); Ulrich Steinbrecher (DLR, Germany)

13:00 – 14:00 Lunch Break & Networking

12:20 **Optimal higher-order dechirping for extended-spotlight SAR/ISAR ship imaging**
Ilaria Nasso and Fabrizio Santi (Sapienza University of Rome, Italy); Debora Pastina (Uniroma, Italy)

12:40 **Adding dimensions to Sentinel-1 data: Constellation of passive receiver satellites flying in formation with Sentinel-1 for operational applications**
Martin Jüssi, Indrek Sünter, Sergei Kuzmin, Priit Pender (KappaZeta, Estonia)

Room: Kongresssaal 1

C.1 Cognitive SARs and Related Applications (Invited)
Chairs: Ernesto Imbembo (European Space Agency, The Netherlands); Antonio De Maio (Università Degli Studi di Napoli, Italy)

11:20 **Advanced on-board processing of SAR data for next-generation Cognitive RADAR payloads: activities and results from the CLICK project**
Lucia Amorosi (Thales Alenia Space Italy, Italy & DONI, Italy); Federica Biancucci, Carlo Ciancarelli and Vincenzo De Marco (Thales Alenia Space Italy, Italy); Gaetano Pastore (Thales Alenia Space Italia, Italy); Max Ghiglione (European Space Agency (ESA) the Netherlands, The Netherlands); Stefano Paterna (European Space Agency (ESA), The Netherlands)

11:40 **A Perception-Action Cycle for SAR Interference Mitigation via Spectral Sensing and Waveform Design**
Vincenzo Carotenuto (University of Naples Federico II, Italy); Antonio De Maio (University of Naples Federico II, Italy); Marco Maffei (Thale Alenia Space, Italy); Roberto Venturini (Thales Alenia Space, Italy)

13:00 – 14:00 Lunch Break & Networking

12:00 **Deep learning-based pseudo-focusing of SAR images for onboard applications**
Paola Rizzoli (German Aerospace Center (DLR), Germany); Federico Marangi (DLR e.V., Germany); Luca Dell'Amore (German Aerospace Center (DLR), Germany); Nicola Gollin (German Aerospace Center, Germany); Michele Martone and Daniel Carcereri (German Aerospace Center (DLR), Germany)

12:20 **SAR-GONAUT: Optimizing AI-BAQ for a large scale mission scenario**
Nicola Gollin (German Aerospace Center, Germany); Michele Martone, Luca Dell'Amore, Jose-Luis Bueso-Bello and Carolina González (German Aerospace Center (DLR), Germany); Allan Bojarski (German Aerospace Center, Germany); Max Ghiglione (European Space Agency (ESA) the Netherlands, The Netherlands); Paola Rizzoli (German Aerospace Center (DLR), Germany)

12:40 **Concept for Wide-Area Maritime Surveillance with Spaceborne Cognitive SAR**
Fairouz Stambouli, Sushil Kumar Joshi, Stefan V. Baumgartner and Marwan Younis (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany)

13:00 – 14:00 Lunch Break & Networking

Room: Kongresssaal 2

D.1 BIOMASS Commissioning and First Results (Invited)
Chairs: Bjorn Rommen (European Space Agency, ESA/ESTEC, The Netherlands); Stefano Tebaldini (Politecnico di Milano, Italy)

11:20 **SAR system performance results from the Biomass In-orbit Commissioning Phase**
Antonio Leanza (European Space Agency, ESA/ESTEC, The Netherlands); Tristan Simon (European Space Agency (ESTEC), The Netherlands); Bjorn Rommen (European Space Agency, ESA/ESTEC, The Netherlands); Klaus Scipal (European Space Agency, ESA/ESRIN, Italy); Philip Willemsen (European Space Agency ESTEC, The Netherlands)

11:40 **Biomass Calibration Results from the Commissioning Phase**
Joel Amao-Oliva and Andre Barros Cardoso da Silva (German Aerospace Center (DLR), Germany); Felipe Betancourt-Payan (DLR, Germany); Marc Jäger (German Aerospace Center (DLR), Germany); Jun Su Kim (German Aerospace Center, Germany); Antonio Leanza (ESA - ESTEC & SERCO, The Netherlands); Gustavo Daniel Martín-del-Campo-Becerra (German Aerospace Center (DLR), Germany); Konstantinos P. Papathanassiou (German Aerospace Center, Germany); Pau Prats-Iraola and Rolf Scheiber (German Aerospace Center (DLR), Germany)

13:00 – 14:00 Lunch Break & Networking

12:00 **BIOMASS Commissioning Results on Calibration with Natural Targets**
Laura Fioretti, Marco Di Trocchio, Francesco Banda, Emanuele Giorgi and Andrea Recchia (Aresys, Italy)

12:20 **Assessment of the BIOMASS radiometric stability using Permanent Scatterers**
Marco Manzoni (Politecnico di Milano, Italy); Francesco Banda (Aresys, Italy); Stefano Tebaldini (Politecnico di Milano, Italy)

12:40 **The Biomass In Orbit Commissioning Challenge: Large Deployable Reflector (LDR) deployment through to successful Antenna Pattern Characterisation**
Christopher D Lloyd (Airbus, United Kingdom (Great Britain)); Thomas Fügen (Airbus Defence and Space GmbH, Germany); Samuel Price (Airbus, United Kingdom (Great Britain))

Room: Kongresssaal 3

E.1 Urban Areas
Chairs: Alessandra Budillon (University of Naples Parthenope, Italy); Gianfranco Fornaro (CNR-IREA, Italy)

11:20 **Super-Resolution TomoSAR with Gridless Compressive Sensing Detector**
Nabil Haddad (Ecole Militaire Polytechnique, Algeria); Alessandra Budillon (University of Naples Parthenope, Italy); Karima Hadj-Rabah (Paris-Lodron Universität Salzburg, Austria); Osama Mahfoudia, Mohamed Gaagai and Azzedine Bouaraba (Ecole Militaire Polytechnique, Algeria); Gilda Schirinzi (Università di Napoli Parthenope, Italy)

13:00 – 14:00 Lunch Break & Networking

11:40 **Investigating the Potential for SAR Acquisition Parameter Independence in Change Detection via Deep-Learning-Derived nDSMs**
Christopher Ummerle and Michael Schmitt (University of the Bundeswehr Munich, Germany)

12:00 **Multi-Sensor InSAR and BIM Fusion for Post-Mining Deformation Monitoring in Urban Areas**
Chia-Hsiang Yang and Carsten Stemmler (EFTAS Remote Sensing Transfer of Technology GmbH, Germany); Nils Wolf (EFTAS Fernerkundung Technologietransfer GmbH, Germany); Marius Koppe and Tobias Rudolph (Research Centre of Post-Mining, Technische Hochschule Georg Agricola, Germany); Andreas Müterthies (EFTAS Remote Sensing Transfer of Technology GmbH, Germany)

12:20 **Towards Activity Based Intelligence (ABI) Using SAR imagery - Initial Results**
Alexander E. Hagelberg (Swedish Defence Research Agency (FOI), Sweden); Thomas K Sjögren (Swedish Defence Research Agency, Sweden)

12:40 **Prior Information Based D-TomoSAR Point Cloud Optimization for the Large-scale Urban Area: Initial Result**
Shuang Jin, Hui Bi, Linfeng Liu, Yuan Zhong and Jingjing Zhang (Nanjing University of Aeronautics and Astronautics, China)

13:00 – 14:00 Lunch Break & Networking

Room: Auditorium

A.2 UAV-Based SAR Interferometry, Tomography and Multistatic Techniques (Invited)
Chairs: Stefan V. Baumgartner (German Aerospace Center (DLR), Germany); Alexander Grathwohl (Ulm University, Germany)

14:00 **UAV-based bistatic SAR focusing and SAR interferometry with the Gamma L-Band SAR systems**
Othmar Frey (ETH Zurich & Gamma Remote Sensing, Switzerland); Charles Werner (GAMMA Remote Sensing Research and Consulting AG, Switzerland); Silvan Leinss and Tobias Batt (Gamma Remote Sensing AG, Switzerland); Timothy Dixon and Taha Sadeghi Chorsi (University of South Florida, USA); Elias J. Deeb, Adam L. Lewinter, Dominic L Filiano and Cameron J Wagner (Cold Regions Research and Engineering Laboratory (CRREL), USA)

14:20 **Low-Altitude TomoSAR Imaging Using a UAV-borne Radar and Large Angular Apertures**
Christina Bonfert, Julian Kanz, Alexander Grathwohl and Marius Widmann (Ulm University, Germany); Christian Waldschmidt (University of Ulm, Germany)

14:40 **Phase Calibration of UAV-SAR Tomographic Data with 3D Phase Center Double Localization**
Marco Manzoni, Pietro Grassi, Luca Mantuano and Stefano Tebaldini (Politecnico di Milano, Italy)

15:40 – 16:10 Coffee Break & Exhibition

15:00 **Towards Drone-Based Single-Pass Across-Track SAR Interferometry**
Victor Mustieles-Perez and Arthur Cruz-Shinzato (German Aerospace Center (DLR), Germany); Marius Widmann and Frederik Bormuth (Ulm University, Germany); Gerhard Krieger (DLR, Germany); Christian Damm (Ulm University, Germany); Christian Waldschmidt (University of Ulm, Germany); Michelangelo Villano (German Aerospace Center (DLR), Germany)

15:20 **Multistatic Distributed Radar Synchronization for Radar Tomography of 3D Vegetation Structure**
Eric A Loria (Jet Propulsion Laboratory and California Institute of Technology, USA); Robert Beauchamp, Marco Lavalle, Jack Bush, William Bertiger and Kameron Larsen (Jet Propulsion Laboratory, California Institute of Technology, USA)

Room: Forum

B.2 Spaceborne SAR Techniques II
Chairs: Maria Jose Gonzalez Bonilla (INTA, Spain); Ryo Natsuaki (The University of Tokyo, Japan)

14:00 **Improving noise vectors quality in Sentinel-1C/D Level-1 products**
Beatrice Mai, Andrea Recchia, Marco Abatangelo and Chiara Passerini (Aresys, Italy); Guillaume Hajduch (CLS Group, Brest, France); Pauline Vincent (CLS, Canada); Muriel Pinheiro (EAS-ESRIN, Italy); Antonio Valentino (Starion for ESA, Italy)

15:40 – 16:10 Coffee Break & Exhibition

14:20 **Investigations on the Radiometric Performance of Sentinel-1: Comparing Point and Distributed Target Results and Analyzing Beam-to-Beam Gain Offsets in Overlap Regions**
Kersten Schmidt (German Aerospace Center (DLR), Germany); Jakob Giez (German Aerospace Center, DLR, Germany); Sebastian Raab (German Aerospace Center (DLR), Germany); Guillaume Hajduch (CLS Group, Brest, France); Pauline Vincent (Collecte Localisation Satellites CLS, France); Muriel Pinheiro (EAS-ESRIN, Italy); Marco Schwerdt (German Aerospace Center (DLR), Germany)

14:40 **Geolocation Accuracy Assessment of ICEYE SAR Imagery: Latest Results**
Qiaoping Zhang and Michael Wollersheim (ICEYE Oy, Finland); Darren Muff (ICEYE, Finland); Valentyn Tolpekin, Angel Johnsy and Melanie Rankl (ICEYE Oy, Finland)

15:00 **Potential of Noise Pulses for Assessment of NESZ and RFI in SAR Images**
Ozan Dogan (ICEYE OY, The Netherlands); Vladimir Ignatenko (ICEYE, Finland); Andrea Radius (ICEYE OY, Finland); Risto Vehmas Risto Vehmas (ICEYE Oy, Finland); Matthew Nottingham (ICEYE, Finland); Leszek Lamentowski (ICEYE Oy, Poland); Jan Krecke (ICEYE OY, Italy); Darren Muff (ICEYE, Finland)

15:20 **Assessing InSAR Persistent Scatterer Capabilities of the IRIDE- NIMBUS Mission through End-to-End SAR Simulation**
Tatiana Martelli, Alejandro Testa, Salvatore Falco and Federica Passerini (Aresys, Italy); Davide Giudici (Aresys srl, Italy); Enrico Ciraci (E-Geos, Italy); Fabio Malvarosa (E-GEOS, Italy); Niccolò Franceschi, Lucia Filacchione and Filippo Santarelli (E-Geos, Italy

15:40 – 16:10 Coffee Break & Exhibition

Room: Kongresssaal 1

C.2 SAR Calibration
Chairs: Martin Kirscht (Airbus Defence and Space, Germany);
Patrick T.P. Klenk (German Aerospace Center (DLR), Germany)

14:00 **Assessment and calibration of RCM compact-hybrid modes**
Ridha Touzi (NRCan/RNCan, Canada); Mélanie Lapointe (Canadian Space Agency, Canada); Mary-Anne Fobert and Stefan Nedelcu (CCRS (CCMEO), Canada); Stephane Cote (Canadian Space Agency, Canada)

14:20 **Azimuth Sublooks for the Calibration in Low-Frequency Synthetic Aperture Radar**
Felipe Betancourt-Payan and Marc Rodriguez-Cassola (DLR, Germany); Maria J. Sanjuan-Ferrer (German Aerospace Center (DLR), Germany)

14:40 **The next Generation of DLR's C-band Transponders for Calibrating future SAR Systems - Status and Outlook**
Sebastian Raab, Klaus Weidenhaupt, Anna Maria Büchner, Jens Reimann and Marco Schwerdt (German Aerospace Center (DLR), Germany)

15:00 **Omnidirectional Transponder for Narrow-band Radar Calibration**
Oren Cohen and Moshe Vana (ELTA Systems Ltd., Israel)

15:40 – 16:10 Coffee Break & Exhibition

15:20 **Space-based Absolute Radiometric Calibration Method for Spaceborne SAR Using a Small Calibration Satellite**
Tian Qiu (School of Electronics and Information Engineering, China & Beihang University, China); Pengbo Wang (Beihang University, China); Yu Wang (Aerospace Information Research Institute, Chinese Academy of Sciences (AIRCAS), China); Jianyuan Li (Beihang University, China); Tao He (BeiHang University, China)

Room: Kongresssaal 2

D.2 Biomass Applications
Chairs: Thomas Fügen (Airbus Defence and Space GmbH, Germany); Konstantinos P. Papathanassiou (German Aerospace Center, Germany)

14:00 **Single-Baseline P-band PolInSAR Tomography for Forest Monitoring with BIOMASS**
Alberto Alonso-González (Universitat Politècnica de Catalunya, Spain); Carlos López-Martínez (Universitat Politècnica de Catalunya (UPC), Spain)

14:20 **Initial P-band BIOMASS Pol-InSAR Observations for Forest Structure Mapping**
Noelia Romero-Puig, Matteo Pardini and Roman Guliaev (German Aerospace Center (DLR), Germany); Konstantinos P. Papathanassiou (German Aerospace Center, Germany)

14:40 **First Results of 3D Forest Structure Characterization with BIOMASS Tomography**
Matteo Pardini, Roman Guliaev and Noelia Romero-Puig (German Aerospace Center (DLR), Germany); Konstantinos P. Papathanassiou (German Aerospace Center, Germany)

15:40 – 16:10 Coffee Break & Exhibition

15:00 **First BIOMASS Tomography Results in Antarctica**
Francesco Banda (Aresys, Italy); Jørgen Dall (Technical University of Denmark, Denmark); Stefano Tebaldini (Politecnico di Milano, Italy)

15:20 **Preliminary analysis of BIOMASS interferometric data over desert environments**
Yanghai Yu (Chinese Academy of Sciences, China & DEIB, Politecnico di Milano, Italy); Stefano Tebaldini (Politecnico di Milano, Italy); Francesco Banda (Aresys, Italy)

Room: Kongresssaal 3

E.2 TanDEM-X Mission Status, Products and 4D-Phase (Invited)
Chairs: Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany); Manfred Zink (DLR, Germany)

14:00 **The 4D Mission Phase of TanDEM-X: Status and Science Activities**
Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany); Thomas Busche (German Aerospace Center (DLR) e. V., Germany); Thomas Kraus and Markus Bachmann (German Aerospace Center (DLR), Germany); Birgit Wessel (German Aerospace Center (DLR) & DFD-LAX, Germany); Marie Lachaise and Alberto Moreira (German Aerospace Center (DLR), Germany); Manfred Zink and Stefan Buckreuss (DLR, Germany)

15:40 – 16:10 Coffee Break & Exhibition

14:20 **TanDEM-X DEM 2020 performance and further TanDEM-X topographic products**
Birgit Wessel (German Aerospace Center (DLR), Germany); Carolin Keller (German Aerospace Center, Germany); Larissa Gorzawski (Company for Remote Sensing and Environmental Research (SLU), Germany); Martin Huber and Ursula Marschalk (German Aerospace Center (DLR), Germany); Achim Roth (DLR, Germany)

14:40 **The TanDEM-X 4D Phase - Monitoring a Changing Earth**
Markus Bachmann (German Aerospace Center (DLR), Germany); Allan Bojarski (German Aerospace Center, Germany); Johannes Böer (German Aerospace Center (DLR), Germany); Stefan Buckreuss (DLR, Germany); Thomas Fritz (German Aerospace Center (DLR), Germany); Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany); Ralph Kahle, Thomas Kraus, Patrick T.P. Klenk, Marie Lachaise, Miguel Lino and Kay Müller (German Aerospace Center (DLR), Germany); Daniel Schulze (German Aerospace Center (DLR, GSOC), Germany); Maximilian Schandri (DLR - HR, Germany); Ulrich Steinbrecher (DLR, Germany); Birgit Wessel (German Aerospace Center (DLR) & DFD-LAX, Germany); Manfred Zink (DLR, Germany)

15:00 **TanDEM-X DEM Change Maps Time Series: Applications for 4D Earth Surface Monitoring**
Marie Lachaise, Barbara Schweißhelm and Nesredin Kenzu Abdela (German Aerospace Center (DLR), Germany)

15:20 **TerraSAR-FOX: Mission Status and Challenges for Phase A**
Adriana Elizabeth Nuncio Quiroz (German Aerospace Center (DLR), Germany); Christian Bruens and Robert Partsch (DLR, Germany); Samuel Stettner (German Aerospace Center (DLR) & Space Administration, Germany)

15:40 – 16:10 Coffee Break & Exhibition

Room: Auditorium

A.3 UAV SAR Demonstrations and Applications
Chairs: Christina Bonfert (Ulm University, Germany); Lukasz Zwirello (TRUMPF Huettinger, Germany)

16:10 **Autofocus for very low altitude high resolution SAR on a light multi-rotor UAV**
Hubert M.J. Cantalloube (ONERA Université Paris-Saclay, France); Joana Frontera-Pons and Frederic Brigui (ONERA, université Paris-Saclay); Nicolas Castet and Joseph Martinot-Lagarde (ONERA, Ecole de l'Air, France)

16:30 **Distributed Drone-Based Demonstrator for SAR: the First Results**
Leonardo Carrer (Aresys, Italy); Stefano Moro (Aresys Srl, Italy); Davide Giudici (Aresys srl, Italy); Pietro Grassi (Politecnico di Milano, Italy); Pietro Guccione (Aresys); Marco Manzoni (Politecnico di Milano, Italy); Daniele Mapelli (ARESYS, Italy); Naomi Petrushevsky (Politecnico di MIlano, Italy); Stefano Tebaldini (Politecnico di Milano, Italy); Paolo Falcone (Aresys srl, Italy)

16:50 **HydroDrone: a UAV InSAR Campaign to Measure Short-Term Temporal Decorrelation**
Pietro Grassi and Marco Manzoni (Politecnico di Milano, Italy); Stefano Moro (Aresys Srl, Italy); Andrea Monti-Guarnieri (Politecnico di Milano, Italy); Julia Kubanek (ESA/ESTEC, The Netherlands); Stefano Tebaldini (Politecnico di Milano, Italy)

17:10 **X-Band UAV SAR Tomography for Measuring Snowpack Height and Stratification**
Luca Mantuano, Pietro Grassi and Marco Manzoni (Politecnico di Milano, Italy); Martina Lodigiani, Paolo Perret and Fabrizio Troilo (Fondazione Montagna Sicura, Italy); Lorenzo Silvestri and Francesco Zucca (Università di Pavia, Italy); Marco Pasian (University of Pavia, Italy); Stefano Moro (Aresys Srl, Italy); Stefano Tebaldini (Politecnico di Milano, Italy)

18:30 – 22:00 Get Together & Poster Session

17:30 **Deformation Measurement with P band Multi-pass UAV InSAR: Methodology and Experimental Validation**
Xin Xie (Beijing Insititute of Technology, China); Yunkai Deng and Yuanhao Li (Beijing Institute of Technology, China); Zhijun Yang (Chongqing Jiaotong University, China); Tian Weiming (Beijing Institute of Technology, China)

Room: Forum

B.3 Compact SAR instruments in the ESA National Programmes (Invited)
Chairs: Martin Suess (ESA/ESTEC, The Netherlands); Enrico Massoni (European Space Agency (ESA), The Netherlands)

16:10 **Overview of the ESA assisted National Earth Observation Programs**
Martin Suess (ESA/ESTEC, The Netherlands); Enrico Massoni (European Space Agency (ESA), The Netherlands)

16:30 **Advancing National EO Capabilities: The Axis1.2 SAR Space Segment by ICEYE**
Chrysa Oikonomou (ICEYE, Finland)

16:50 **IRIDE-NIMBUS SAR Satellite Constellation**
Manuela Di Salvo (Thales Alenia Space Rome, Italy); Andrea Torre (Thales Alenia Space, Italy); Jacopo Tiberi (THALES ALENIA SPACE ITALIA S.p.A., Italy)

17:10 **Polarimetric StarSAR-X System Design**
Adriano Meta and Riccardo Albi (MetaSensing, Italy); Julien Marini (MetaSensing Italia, Italy); Ivan Troisi (MetaSensing, Italy)

17:30 **SAR mission and payload for the Polish Camila Programme**
Maciej Klemm (Eycore, Poland)

18:30 – 22:00 Get Together & Poster Session

Room: Kongresssaal 1

C.3 Radio Frequency Interference in SAR Remote Sensing (Invited)
Chairs: Tobias Bollian (European Space Agency, The Netherlands); Andrea Federico Loinger (Airbus Defence and Space GmbH, Germany)

16:10 **Operational Influence of Radio Frequency Interference on Airborne Multi-mission Surveillance Radar PrecISR**
Alexander Dallinger, Falk Ringel and Tim Peikert (HENSOLDT Sensors GmbH, Germany); Lizette Lorraine Tovar Torres (HENSOLDT Sensors GmbH, Germany & Ulm University, Germany); Jörg H. Hippler (Hensoldt, Germany); Dejan Nikolic (Hensoldt Sensors GmbH, Germany); Kosmas Weidmann (HENSOLDT Sensors GmbH, Germany)

16:30 **Toward Precise Interference Localization in Bistatic SAR: A Geometry-Enhanced Virtual Baseline Approach**
Yifei Liu (Northwest Polytechnical University Xi'an, China); Mingliang Tao (Northwestern Polytechnical University, China); Yanyang Liu (Shanghai Institute of Satellite Engineering, China); Junli Chen (Shanghai Academy of Spaceflight Technology, China); Ling Wang (Northwestern Polytechnical University, China)

16:50 **Sentinel-1 Radio Frequency Interference mitigation, characterization and localization**
Andrea Recchia (Aresys, Italy); Simone Mancon (Aresys Srl, Italy); Abraham Eijgenraam (Aresys, The Netherlands); Beatrice Mai (Aresys, Italy); Alessando Cotrufo and Yan Soldo (ESA, France); Guillaume Hajduch (CLS, France); Muriel Pinheiro (EAS-ESRIN, Italy); Antonio Valentino (Starion for ESA, Italy); Ruben Blériot (Apside, France)

18:30 – 22:00 Get Together & Poster Session

17:10 **Radio Frequency Interference Mitigation for BIOMASS**
Riccardo Piantanida, Francesco Banda, Emanuele Giorgi, Giorgio Prandi, Marco Di Trocchio, Laura Fioretti and Andrea Recchia (Aresys, Italy); Muriel Pinheiro (EAS-ESRIN, Italy)

17:30 **NISAR Radio Frequency Interference Detection and Mitigation: Initial Results and Assessments**
Bo Huang, Brian P Hawkins, Heresh Fattahi and Hirad Ghaemi (Jet Propulsion Laboratory, USA); Geoffrey Gunter (Array Labs, USA); Tyler Hudson (NASA Jet Propulsion Laboratory, USA); Xiaodong Huang (Jet Propulsion Laboratory, USA); Jungkyo Jung and Marco Lavalle (Jet Propulsion Laboratory, California Institute of Technology, USA); Paul A. Rosen (Jet Propulsion Laboratory, USA)

Room: Kongresssaal 2

D.3 Biomass Applications and Atmosphere Correction
Chairs: Konstantinos P. Papathanassiou (German Aerospace Center, Germany); Andrea Recchia (Aresys, Italy)

16:10 **Atmospheric Correction for BIOMASS Interferometry and DTM Estimation**
Francesco Banda (Aresys, Italy); Elizaveta Antonova, Stefano Tebaldini and Claudio M. Prati (Politecnico di Milano, Italy)

16:30 **Ionosphere Characterisation using BIOMASS Data**
Jun Su Kim, Hiroatsu Sato, Felipe Betancourt-Payan and Konstantinos P. Papathanassiou (German Aerospace Center, Germany)

18:30 – 22:00 Get Together & Poster Session

16:50 **Multi-layer ionosphere correction in BIOMASS interferometry**
Stefano Tebaldini and Francesco Salvaterra (Politecnico di Milano, Italy); Francesco Banda (Aresys, Italy); Muriel Pinheiro (EAS-ESRIN, Italy)

17:10 **Initial Analysis on the Sensitivity of BIOMASS P-band Quad-Pol SAR Images to Agricultural Crops**
Juan Manuel Lopez-Sanchez, Victor Cazcarra-Bes and Alejandro Mestre-Quereda (University of Alicante, Spain); Carlos Mosquera (AgroAP, Colombia); Corné Van der Sande (eLEAF, The Netherlands)

17:30 **Volume Decorrelation and Signal Penetration in Interferometric BIOMASS Data over Ice Sheets**
Georg Fischer, Roman Guliaev and Jun Su Kim (German Aerospace Center (DLR), Germany); Jørgen Dall (Technical University of Denmark, Denmark); Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany); Konstantinos P. Papathanassiou (German Aerospace Center, Germany)

Room: Kongresssaal 3

E.3 SAR Image Generation, Correction and Geocoding
Chairs: Dirk Geudtner (European Space Agency, France);
Rolf Scheiber (German Aerospace Center (DLR), Germany)

16:10 **A Sequential Doppler Offset (SDO) Method for Locating Targets Causing Azimuth Fractional Ambiguity in Spaceborne HRWS-SAR**
Yanyan Zhang, Akira Hirose and Ryo Natsuaki (The University of Tokyo, Japan)

18:30 – 22:00 Get Together & Poster Session

16:30 **Combined Entropy Minimization and Geometrical Modeling for Low-Altitude UAV Autofocus**
Naomi Petrushevsky (Politecnico di Mllano, Italy); Pietro Grassi, Stefano Tebaldini and Claudio M. Prati (Politecnico di Milano, Italy)

16:50 **From Geometry to Mission Analysis: A Bistatic SAR Raw-Signal Simulation Tool for Extended Terrains in Support of PLT-1 Mission**
Alejandro Arias-Gallegos (University of Naples Federico II, Italy); Farah Rasheed Abbasi (University of Parthenope Napoli Italy, Italy); Gerardo Di Martino (Università di Napoli Federico II, Italy); Alessio Di Simone (University of Naples Federico II, Italy); Antonio Iodice (Università di Napoli Federico II, Italy); Daniele Riccio (University of Naples Federico II, Italy); Giuseppe Ruello (Università di Napoli Federico II, Italy); Giovanni Paolo Blasone, Deodato Tapete and Simona Zoffoli Zoffoli (Italian Space Agency, Italy)

17:10 **Demystifying Topography Knowledge Requirements for Bistatic SAR Focusing**
Maxwell Nogueira Peixoto and Michelangelo Villano (German Aerospace Center (DLR), Germany)

17:30 **A Precise DEM-dependent Motion Error Compensate Method for Air-borne Ultra-high-resolution SAR**
Luhao Wang (Beihang University, China); Wei Yang (BeiHang University, China); Xiaojie Zhou and Yamin Wang (Beihang University, China); HongCheng Zeng (BeiHang University, China); Yueming Sun (Beihang University, China)

18:30 – 22:00 Get Together & Poster Session

Room: Poster Area

Poster Session

P1 SAR Systems and Sensors

P1.1 **A Temporal Attention Gated Recurrent Unit Network for ISAR Range Alignment**
Linya Huang (Nanjing University of Aeronautics and Astronautics, China); Ling Wang (Nanjing University of Aeronautics and Astronautic, China); Lianzi Wang, Yong Yang and Daiyin Zhu (Nanjing University of Aeronautics and Astronautics, China)

P1.2 **Safe Ellipse versus Train-Like Formation Keeping: a Comparative Study in the RODiO Mission Framework**
Maria Salvato, Antonio Gigantino, Maria Daniela Graziano and Alfredo Renga (University of Naples Federico II, Italy)

P1.3 **Smart On-board Processing for Next Generation SAR Systems: Final Results from the SOPHOS Project**
Michele Martone (German Aerospace Center (DLR), Germany); Nicola Gollin (German Aerospace Center, Germany); Marc Jäger and Rolf Scheiber (German Aerospace Center (DLR), Germany); Maike Taddiken, Ole Bischoff and Daniel Smith (DSI, Germany); Oskar Flordal, Mathias Persson, Carl Bondesson and Fredrik Andersson (Unibap, Sweden); Vangelis Kollias and Nikos Pogkas (Teletel SA, Greece); Simon Nolte and Jamin Naghmouchi (Universität zu Lübeck, Germany)

P1.4 **Design of Dual-band X/Ka Airborne SAR System for Wide-area Sparse Targets**
Mingxuan Song and Xuyuan Lin (Shanghai Jiaotong University, China); Fukun Sun (The Aerospace Information Research Institute, Chinese Academy of Sciences, China); Kaizhi Wang, Zilin Wang and Wanni Chen (Shanghai Jiaotong University, China)

P1.5 **An Experimental High-Resolution Stripmap Mode for TerraSAR-X**
Ulrich Steinbrecher (DLR, Germany); Thomas Kraus, Markus Bachmann and Johannes Böer (German Aerospace Center (DLR), Germany)

P1.6 **Passive SAR Imaging Using ICEYE Satellite**
Holger Nies (University of Siegen, Germany); Florian Behner and Simon Reuter (Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR, Germany); Ivo Ihrke (Universität Siegen, Germany)

1.7 **PAZ Ground Segment: achievements and current status after eight years of operations**
Maria Jose Gonzalez Bonilla, Juan Manuel Cuerda Muñoz, Marcos García Rodriguez and Nuria Alfaro (INTA, Spain); Eva Vega (Spanish National Aerospace Institute, Spain)

1.8 **Characterization of Multi-Rotor X Band SAR**
Prathith Vasudev (GalaxEye Space Solutions Pvt. Ltd., India); Denil Chawda (GalaxEye Space Solutions Private Limited, India); Sohail Nadaf (GalaxEye Space Solutions Pvt. Ltd., India); Ramachandran Rajaraman and Sumanta Kumar Patra (Indian Space Research Organization, India)

P2 SAR Technology and Calibration

P2.1 **Design and Optimization of a Wideband Dual-polarization Radiator for Synthetic Aperture Radar Satellite Applications**
Jisu Lee, Seong-Ju Kim, Jongmin Park, Je-Woo Yu, Heeduck Chae, Jong-Kuk Park and Jongpil Kim (LIG NEX1, Korea (South)))

P2.2 **Dual-Chirp-Rate Waveforms for Range Ambiguity Blurring**
Yuta Otsuka and Michelangelo Villano (German Aerospace Center (DLR), Germany)

P2.3 **Analytical Expression for the Impact of Velocity Variations on Azimuth Ambiguity Suppression in Digital Beamforming SAR**
Luiz Fernando Quandt Fusinato (German Aerospace Center (DLR) e.V., Germany); Juan Pablo Navarro Castillo and Rolf Scheiber (German Aerospace Center (DLR), Germany)

P2.4 **Impact of Terrain Height Variations on the Performance of F-SCAN SAR**
Bo Li (Aerospace Information Research Institute, China); Wenxin Ou and Lizhi Liu (Aerospace Information Research Institute Chinese Academy of Sciences, China); Yuesheng Chen (Aerospace Information Research Institute, Chinese Academy of Sciences, China); Yonghua Cai (Aerospace Information Research Institute, Chinese Academy of Sciences & University of Chinese Academy of Sciences, China); Pingping Lu (Institute of Electronics, Chinese Academy of Sciences, China)

P2.5 **Results of the Synspective data assessment in the framework of the EDAP+ project using the SAR Calibration Toolbox**
Andrea Recchia, Laura Fioretti, Beatrice Mai, Giorgio Parma and Marco Spadoni (Aresys, Italy); Juval Cohen and Jorge Ruiz (Finnish Meteorological Institute, Finland); Kevin Halsall (Telespazio UK, United Kingdom (Great Britain)); Leonardo De Laurentiis (European Space Agency, France); Clément Albinet (European Space Agency, Italy)

P2.6 **ALOS-2 and ALOS-4 mutual Spotlight-Spotlight interferometry**
Ryo Natsuaki (The University of Tokyo, Japan)

P2.7 **Experimental TerraSAR-X Ambiguous Acquisitions of 600-km Ground Swath with 3-m Spatial Resolution**
Nertjana Ustalli, Maxwell Nogueira Peixoto and Markus Bachmann (German Aerospace Center (DLR), Germany); Ulrich Steinbrecher (DLR, Germany); Pau Prats-Iraola and Michelangelo Villano (German Aerospace Center (DLR), Germany)

P2.8 **An Orthogonal CP-OFDM Waveform Optimization Method for Anti-Jamming SAR Imaging via Projected Gradient Descent**
Haixu Shi, Tianqu Liu, Zhongqiu Xu, Guangzuo Li and Wen Hong (Chinese Academy of Sciences, China)

P3 SAR Data Evaluation and Modeling

P3.1 **A Three-channel SAR/GMTI Processing Method and Test Results**
Xujin Zhang and Jin Han (East China Research Institute of Electronic Engineering, China); Yicheng Zhang (Northeastern University, USA); Lulu Tan (Institute of Electronics, Chinese Academy of Sciences, China); Wei Zhang, Jia-Guo Lu, Lei Sheng and Xingwang Qiao (East China Research Institute of Electronic Engineering, China)

P3.2 **A Radiation Correction Method for ScanSAR Images Based on Range-variant Correction and Regional Matching**
Xinwei An (Beihang University, China); HongCheng Zeng and Wei Yang (BeiHang University, China); Yongchen Pan and Yamin Wang (Beihang University, China); Jie Chen (School of Electronics and Information Engineering, Beihang University, China)

P3.3 **2-D Spatial Variant Autofocus for Bistatic ISAR Imaging of Aerial Maneuvering Targets Based on Nonlinear Chirp Scaling Algorithm**
Jiabao Ding (Zhengzhou University); Mei Liu (Henan University of Technology, China)

P3.4 **SAR2LiDAR: A Deep Learning-Based Cross-Modal Matching Frame-work between SAR Images and LiDAR Point Clouds**
Yifan Zhang, Jordi Joan Mallorqui and Wen Wang (Universitat Politècnica de Catalunya, Spain)

P3.5 **Combining SAR Simulators to Train ATR Models with Synthetic Data**
Benjamin Camus and Julien Houssay (SCALIAN DS, France); Corentin Le Barbu (Scalian DS, France); Eric Monteux (SCALIAND DS, France); Cedric Saleun (DGA, France); Christian Cochin (DGA MI - French MoD, France)

P3.6 **Generalization of InSAR2InSAR to Sentinel-1 Multi-Channel Data: PolSAR and PolInSAR**
Carla Geara (Kanop, Télécom Paris, ONERA); Colette Gelas and Louis de Vitry (Kanop, France); Elise Colin (DTIS-Onera, University of Paris Saclay, France); Florence Tupin (Télécom ParisTech, France)

P3.7 **Efficient GPSAR Imaging with Refraction Compensation based on the Small Angle Approximation**
Ingrid Ullmann (Institute of Microwaves and Photonics, Germany); Tobias Bierer and Christian Damm (Ulm University, Germany)

P3.8 **L-Band SAR interferometry under severe ionospheric conditions**
Heidi Hindberg and Jelte van van Oostveen (NORCE Research, Norway); Tom Grydeland (NORCE Norwegian Research Centre, Norway); Tom Rune Lauknes and Liliana Macotela (NORCE Research, Norway); Yngvar Larsen (NORCE, Norway)

P3.9 **A Deep Analysis-Synthesis Framework Based on Learnable Time-Frequency Analysis for SAR RFI Reconstruction and Suppression**
Hongtao Zhan, Shuangxi Zhang, Xiawei Ren, Yan Feng and Shaohui Mei (Northwestern Polytechnical University, China)

P3.10 **Posterior sampling for speckle reduction in SAR imaging based on a diffusion model with gamma noise**
Louise Friot Giroux (Université Jean Monnet - Saint-Etienne, France); Loic Denis (Université Jean Monnet, France); Rémi Emonet (Laboratoire Hubert Curien, Saint-Étienne, France); Amaury Habrard (University Jean Monnet, France)

P3.11 **A novel MIMO radar three-dimensional imaging method based on the planar sparse array**
Zheng Shuyu, Yang Jian, Xueyan Dong, Zhichao Meng and Yan Ling (Rocket Force University of Engineering, China)

P3.12 **YOLO-Q: A Lightweight Object Detection Model for Maritime ship Targets with Sparse-query Mechanism**
Yang Jian, Mengchen Dong, Yan Ling and Xueyan Dong (Rocket Force University of Engineering, China)

P3.13 **Video-SAR processing for moving target characterization**
Temesgen Gebrie Yitayew and Geir Engen (Norwegian Research Center AS NORCE, Norway); Yngvar Larsen (NORCE, Norway); Michela Corvino (ESA Centre for Earth Observation (ESRIN), Italy)

P3.14 **Performance Comparison of Cognitive SAR System Concepts for Ship Detection**
Jan Meyer (FAU Erlangen & DLR Oberpfaffenhofen, Germany); Kay Glatting and Sigurd Huber (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany)

P3.15 **GMTI and GMTIm in Gaofen-3 SAR satellite dual-channel spotlight mode**
Wenjie Shen (North China University of Technology, China); Bing Han (Institute of Electronics, Chinese Academy of Sciences, China); Liangbo Zhao (Chinese Academy of Space Technology, China); Yun Lin (North China University of Technology, China); Yang Li (School of Information Science and Technology, North China University of Technology, China); Yanping Wang (North China University of Technology, China); Wen Hong (National Key Laboratory of Microwave imaging Technology & Institute of Electronics, Chinese Academy of Scienecs, China)

P3.16 **MESRM-based Range Doppler Algorithm for Spaceborne SAR Sliding Spotlight Mode Imaging**
Zhuolin Fu and Kangxin Xiong (Beihang University, China); Tian Qiu (School of Electronics and Information Engineering, China & Beihang University, China); Zhirong Men and Pengbo Wang (Beihang University, China); Jie Chen (School of Electronics and Information Engineering, Beihang University, China

P3.17 **PSDefoPAT4Unwrapping: Integrating Knowledge on Spatial and Temporal Deformation Patterns into Phase Unwrapping**
Madeline Stefania Evers (Fraunhofer Institute of Optronics, System Technologies and Image Exploitation (IOSB), Germany); Erich Cadario (Fraunhofer IOSB, Germany); Antje Thiele (Fraunhofer IOSB & KIT, Germany)

P3.18 **Deep Learning-Based Despeckling and Super-Resolution of SAR Images via Subaperture Processing**
Maria Bustos (Universität der Bundeswehr München, Germany); Francescopaolo Sica (University of the Bundeswehr Munich (UniBw), Germany); Michael Schmitt (University of the Bundeswehr Munich, Germany)

P3.19 **Machine Learning Applied to Moving Target Indication (MTI) in Dual-Channel Raw Synthetic Aperture Radar (SAR) Data**
Shen Chiu, Anna Limoges and Katerina Biron (Defence Research and Development Canada (DRDC), Canada)

P3.20 **Ghost Targets Suppression for Staggered SAR and Multichannel SAR Based on Spectrum Truncation and Extrapolation**
Zhiqiang Tian and Yu Ze (Beihang University, China); Gilda Schirinzi (Università di Napoli Parthenope, Italy); Xiaojun Li (Xi'an University of Electronic Science and Technology, China)

P3.21 **A Compressed Sensing-Based Algorithm for GNSS-SAR**
Peng Zhao, Pengbo Wang, Tao Tang and Zhirong Men (Beihang University, China)

P3.22 **Joint Optimization of Transmit Waveform and Receive Filter for RFI Mitigation in SAR-GMTI**
Bin Hu, Shijian Shen and Yu Zheng (Nanjing Research Institute of Electronics Technology, China); Zhiyong Lei (Nanjing Research Institute of Electronic Institute, China)

P3.23 **Enhancement and Mitigation of Radio Frequency Interference in P-band Range-Compressed Airborne SAR Data**
Alessandro Di Vincenzo (Università Degli Studi di Napoli Parthenope & Istituto per Il Rilevamento Elettromagnetico dell'Ambiente IREA CNR, Italy); Rolf Scheiber (German Aerospace Center (DLR), Germany)

P3.24 **Fast Parametric ISAR Autofocussing Using Quantum Search**
Benjamin Rodrigues de Miranda (Deutsches Zentrum Für Luft- Und Raumfahrt, Germany & Hensoldt, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany); Sigurd Huber (German Aerospace Center (DLR), Germany); Tobias Brosch (Hensoldt Sensors GmbH, Ulm, Germany); Gerhard Krieger (DLR, Germany)

P3.25 **Real-Data-Driven Deep Learning Method for SAR Image Super-Resolution**
Ronghua Guo (Xidian University, China); Matteo Ciotola (University of Naples Federico II, Italy); Giampaolo Ferraioli (Università di Napoli Parthenope, Italy); Gianfranco Fornaro (CNR-IREA, Italy); Vito Pascazio (Università di Napoli Parthenope, Italy); Giuseppe Scarpa (University Parthenope of Napoli, Italy); Gilda Schirinzi (Università di Napoli Parthenope, Italy); Sergio Vitale (University of Naples Parthenope, Italy)

P3.26 **Research on a Two-Layer Network TS-InSAR Method for Bridge Deformation Measurement**
Zechao Bai, Jingjing Ai, Yanping Wang and Wenjie Shen (North China University of Technology, China)

P3.27 **Differential Evolution Optimization for Single Scatter Detection in SAR Tomography**
Mehwish Nisar (CNR-IREA, Italy); Antonio Pauciullo (IREA, CNR, Italy); Gianfranco Fornaro (CNR-IREA, Italy); Pasquale Imperatore (National Research Council, Italy)

P3.28 **An Enhanced Range Split-Spectrum Method for Ionospheric Phase Contribution Estimation for DInSAR Analysis**
Marianna Franzese (University of Naples Federico II, Italy & IREA-CNR, Italy); Claudio De Luca (IREA-CNR, Italy); Antonio De Maio (University of Naples "Federico II", Italy); Riccardo Lanari (IREA-CNR, Italy)

P3.29 **A Novel Deep-Learning-Based Approach for Estimating High-Resolution InSAR Parameters**
Luca Dell'Amore and Daniel Carcereri (German Aerospace Center (DLR), Germany); Begüm Demir (Technische Universität Berlin (TUB), Germany); Paola Rizzoli (German Aerospace Center (DLR), Germany)

P3.30 **SAR Land Cover Classification: Do Heavyweight Deep Learning Models Justify Their Cost Against Lightweight Architectures?**
Urszula Libal and Agnieszka Wielgus (Wroclaw University of Science and Technology, Poland); Jakub Gilewicz (Wrocław University of Science and Technology, Poland)

P3.31 **Azimuth Ambiguity Suppression Method for Multistatic SAR System With Along-Track Formation**
Yuesheng Chen (Aerospace Information Research Institute, Chinese Academy of Sciences, China); Lizhi Liu (Aerospace Information Research Institute Chinese Academy of Sciences, China); Zongbiao Chen and Bo Li (Aerospace Information Research Institute, China); Yonghua Cai (Aerospace Information Research Institute, Chinese Academy of Sciences & University of Chinese Academy of Sciences, China); Pingping Lu (Institute of Electronics, Chinese Academy of Sciences, China); Yijiang Nan (Aerospace Information Research Institute, Chinese Academy of Sciences, China)

P4 SAR Data Evaluation and Modeling

P4.1 **Investigation of polarimetric ALOS2 and ALOS4 for peatland and discontinuous permafrost mapping in the oil sand exploration region (Noth Alberta)**
Ridha Touzi (NRCan/RNCan, Canada); Paul Wilson (CCRS (CCMEO), Canada); Steven Pawley (AGS, Canada)

P4.2 **Lightweight Convolutional Neural Networks for Tiny Ship Detection in Sentinel 1 Images**
Steffen Merseburg (University of Stuttgart, Germany); Uwe Sörgel (Universität Stuttgart, Germany)

P4.3 **SAR-Guided Temporal Interpolation of Optical Satellite Images via Spatio-Temporal Graph Regularization**
Ryosuke Isono (Institute of Science Tokyo, Japan); Ryuhei Hamaguchi (National Institute of Advanced Industrial Science and Technology (AIST), Japan); Shunsuke Ono (Tokyo Institute of Technology, Japan)

P4.4 **Despeckling of PolSAR Images with Classification-Based Performance Evaluation**
Yunpeng Zhang (University of Naples Parthenope, Italy); Wenyu Yang (Università di Napoli Parthenope, Italy); Zhiqiang Tian (Beihang University, China); Sergio Vitale (University of Naples Parthenope, Italy); Giampaolo Ferraioli (Università di Napoli Parthenope, Italy); Kai Sheng, Jinsong Zhang and Mengdao Xing (Xidian University, China); Vito Pascazio (Università di Napoli Parthenope, Italy)

P4.5 **Compact-Polarimetric Decomposition and Lunar Regolith Dielectric Constant Retrieval Based on Mini-RF SAR Data**
Liting Liang, Yunhua Zhang and Dong Li (National Space Science Center, Chinese Academy of Sciences, China)

P4.6 **Effects of Cross- and Multi-Frequency Self-Supervised Pretraining for SAR Land Cover Mapping**
Felix von Hagen (University of the Bundeswehr, Germany); Michael Schmitt (University of the Bundeswehr Munich, Germany)

P4.7 **Interpreting Flood Segmentation Maps from SAR Imagery: A Comparative Study of CAM-based Explanation Methods**
Anastasia Schlegel and Ronny Haensch (DLR, Germany)

P4.8 **Quantum Feature Maps as Nonlinear Encoders for Fused Sentinel-1/2 Data in Support Vector Machines**
Sreejit Dutta (DLR, Germany); Sigurd Huber (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany); Marco Körner (Technical University of Munich, Germany)

P4.9 **Balancing Speed and Accuracy - Subsampling within the Random Forest Framework**
Ronny Haensch (DLR, Germany)

P4.10 **Fine-Grained Surface Type Classification of Qarhan Lake Using Fully Polarimetric SAR Data**
Fabin Dong (Aerospace Information Research Institute, Chinese Academy of Sciences, China); Qiang Yin (College of Information Science and Technology, Beijing University of Chemical Technology, China); Wen Hong (Aerospace Information Research Institute, Chinese Academy of Sciences, China)

P4.11 **Limitations and Potentials of Quantum Computing for InSAR Phase Unwrapping**
Kay Glatting (German Aerospace Center (DLR), Germany); Jan Meyer (FAU Erlangen & DLR Oberpfaffenhofen, Germany); Sigurd Huber (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany)

P4.12 **Forest Height from BIOMASS: Inversion Strategies and Performance**
Roman Guliaev, Matteo Pardini and Noelia Romero-Puig (German Aerospace Center (DLR), Germany); Jun Su Kim and Konstantinos P. Papathanassiou (German Aerospace Center, Germany)

P4.13 **X-band Stereo-SAR for Building Detection and Height Measurement**
Hiroshi Yokoya and Syusuke Yasui (Space Shift Inc., Japan); Fumitaka Ogushi (NV5 Geospatial KK, Japan); Kazushi Motomura and Naruo Kanemoto (Space Shift Inc., Japan) Simulated SAR Image Generation Based on Ray-Tracing for Arbitrary-Shape Objects

Keisuke Sugawara, Satoru Ozawa and Akihisa Uematsu (Japan Aerospace Exploration Agency, Japan); Masanori Miyawaki and Hlitoshi Nohmi (Alouette Technology Inc., Japan)

P4.14 **Simulated SAR Image Generation Based on Ray-Tracing for Arbitrary-Shape Objects**
Keisuke Sugawara, Satoru Ozawa and Akihisa Uematsu (Japan Aerospace Exploration Agency, Japan); Masanori Miyawaki and Hlitoshi Nohmi (Alouette Technology Inc., Japan)

P4.15 **Locating the Position of Radio Frequency Interference Sources in TerraSAR-X Products**
Maximilian Schandri (DLR - HR, Germany); Thomas Kraus (German Aerospace Center (DLR), Germany); Nermine Hendy (Royal Melbourne Institute of Technology, Australia); Akram Al-Hourani (RMIT University, Australia); Markus Bachmann (German Aerospace Center (DLR), Germany)

P4.16 **Effect of Non-Ideal Circular Polarization on Ionospheric Faraday Rotation Angle Estimation Using Spaceborne Circular Full-Polarimetric SAR Measurements**
Xun Wang, Dong Li and Yunhua Zhang (National Space Science Center, Chinese Academy of Sciences, China)

P4.17 **A brain-inspired contrastive learning framework for self-supervised SAR image quality assessment**
Yaoyao Liu (Institute of Electronics, Chinese Academy of Sciences, China); Li Ke, LIU Tao and Tian Shusen (Naval University of Engineering, China)

P5 SAR Applications

P5.1 **Challenges of Tidal Flat Monitoring with Sentinel-1 SAR - A Case Study in the German Wadden Sea**
Stefan Wiehle, Björn Tings and Anja Frost (German Aerospace Center (DLR), Germany)

P5.2 **A Concept for an Approach for Unified (Non-) Coherent SAR Change Detection**
Markus Boldt, Erich Cadario and Silvia Kuny (Fraunhofer IOSB, Germany); Antje Thiele (Fraunhofer IOSB & Karlsruhe Institute of Technology (KIT), Germany)

P5.3 **Post-Fire Peatland Deformation Analysis Using Sentinel-1 MT-InSAR**
Chia-Hsiang Yang (EFTAS Remote Sensing Transfer of Technology GmbH, Germany); Dirk Lindemann (EFTAS Fernerkundung Technologietransfer GmbH, Germany); Andreas Müterthies (EFTAS Remote Sensing Transfer of Technology GmbH, Germany); Patrick Wolf (NLU-Projektgesellschaft mbH & Co. KG, Germany)

P5.4 **A Method for Significant Wave Height Extraction based on Synthetic Aperture Radar Images**
Huimin Li, Chen Wang and Zhixiong Wang (AITECH, China); XiaoMing Li (Aerospace Information Research Institute, Chinese Academy of Sciences, Chinese Academy of Sciences, China)

P5.5 **Configuration Optimization and Performance Analysis of Multi-Dimensional Deformation and Troposphere Joint Measurement Using Multi-angle Spaceborne D-InSAR**
Junpeng Ren (Beijing Institute of Technology, China); Xin Xie (Beijing Insititute of Technology, China); Xingzhe Zhao, Zhiyang Chen and Yuanhao Li (Beijing Institute of Technology, China)

P5.6 **Evaluating Atmospheric Influence on X-Band InSAR Coherence for Infrastructure Monitoring**
Stefan Scheiblauer (University of the Bundeswehr Munich, Germany); Francescopaolo Sica (University of the Bundeswehr Munich (UniBw), Germany); Michael Schmitt (University of the Bundeswehr Munich, Germany)

P5.7 **Insights from Landscape-Scale Integration to Sentinel-1-Based Detec-tion and Evaluation of Crop Phenology at Field Level**
Johannes Löw (Martin-Luther-University Halle-Wittenberg, Germany); Christopher Conrad (Martin-Luther-University, Germany); Steven Hill, Insa Otte and Tobias Ullmann (University of Würzburg, Germany)

P5.8 **Spatial and temporal glacier zone variability on the Canadian Arctic Archipelago from 2017 to 2023 using TerraSAR-X**
Anna Wendleder (German Aerospace Center (DLR) & Microwaves and Radar Institute, Germany); Markens Spasari (Munich University of Applied Sciences (HM), Germany); Sarah Hauser (Karlsruhe Institute of Technology (KIT) & Hochschule München University of Applied Sciences, Germany); Sahra Abdullahi (German Aerospace Center (DLR), Germany); Andreas Schmitt (Hochschule München University of Applied Sciences, Germany & Institute for Applications of Machine Learning and Intelligent Systems (IAMLIS), Germany)

P5.9 **Observations of InSAR closure phase and coherence over crops in the Thessaloniki region, Greece**
Lorette Drique (Institut de Physique Du Globe de Paris (IPGP), France & CEA, France); Manon Dalaison (Institut de Physique Du Globe de Paris (IPGP), France); Béatrice Pinel-Puysségur (CEA, France); Nobuaki Fuji (Institut de Physique Du Globe de Paris (IPGP) & Institut Universitaire de France, France)

P5.10 **Integrating Synthetic Aperture Radar Data into a Monitoring Tool for Sugarcane in the Cauca Valley, Colombia**
Alejandro Mestre-Quereda, Juan Manuel Lopez-Sanchez, Tomas Martinez-Marin and Victor Cazcarra-Bes (University of Alicante, Spain); Carlos Mosquera, Juliana Lozano and Jhonatan Quinones (AgroAP, Colombia); Henk Pelgrum, Antonia Skarli, Corné Van der Sande and Andrea Idrovo (eLEAF, The Netherlands); Dirk Hoekman and Martin Vissers (SarVision, The Netherlands)

P5.11 **Comparison of Dual and Fully Polarimetric SAR for Soil Moisture Retrieval**
Marion Dugué (ETH Zürich, Switzerland); Nikita Basargin (German Aerospace Center (DLR) & Technical University of Munich (TUM), Germany); Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany)

P5.12 **BIOMASS P-band Interferometry: Temporal Stability Study and Comparison with Airborne SAR Experiments in Gabon**
Fred Terrance Ndouni Missono (German Aerospace Center (DLR), Germany); Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany); Roman Guliaev (German Aerospace Center (DLR), Germany); Konstantinos P. Papathanassiou (German Aerospace Center, Germany)

P5.13 **Retrieval of Ocean Wave Parameters from Tiangong-2 InIRA Image**
Guo Li (National Space Science Center, CAS, China); Yunhua Zhang and Xiao Dong (National Space Science Center, Chinese Academy of Sciences, China); Xiaojin Shi and Wenshuai Zhai (National Space Science Center, Chinese Academy of Sciences,China); Dong Li (National Space Science Center, Chinese Academy of Sciences, China)

P5.14 **Slope-Correlated Phase Bias in L-band InSAR Time Series**
Shogo Nagaoka and Youichiro Takada (Hokkaido University, Japan)

P5.15 **Simultaneous estimation of doppler centroid anomaly and normalized radar cross section for L2 ocean products**
Geir Engen (Norwegian Research Center AS NORCE, Norway); Yngvar Larsen (NORCE, Norway); Temesgen Gebrie Yitayew (Norwegian Research Center AS NORCE, Norway)

P5.16 **3D-ABC: A Foundation Model for Global Terrestrial 3D Above and Below Ground Carbon Stock Mapping**
Megan Udy and Matteo Pardini (German Aerospace Center (DLR), Germany); Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany); Guido Grosse (Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, Potsdam, Germany); Pedram Ghamisi (Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany); Gabriele Cavallaro (Jülich Supercomputing Centre, Germany); Martin Herold (Helmholtz Centre for Geosciences, Potsdam, Germany); Andreas Huth (Helmholtz Centre for Environmental Research (UFZ), Germany)

Tuesday, June 9 21:00 – 22:00

Room: Garden

Concert

Room: Auditorium

A.4 Spaceborne SAR Missions
Chairs: Alberto Moreira (German Aerospace Center (DLR), Germany); Martin Suess (ESA/ESTEC, The Netherlands)

9:00 **NewSpace SAR and Full-Fledged SAR Satellites: Shaping the Future of Spaceborne SAR Systems**
Alberto Moreira (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany); Michelangelo Villano, Marwan Younis and Pau Prats-Iraola (German Aerospace Center (DLR), Germany); Manfred Zink (DLR, Germany)

9:20 **Geostationary SAR for snow applications: design and performance**
Pietro Guccione, Leonardo Carrer and Andrea Recchia (Aresys, Italy); Andrea Monti-Guarnieri (Politecnico di Milano, Italy)

9:40 **The PAZ-2 Satellite and SAR Instrument Concept. System Design, Performances and Development Overview**
Javier del Castillo Mena, Marc Bergada, Miguel Piera Martinez, Roberto Palacios Bravo and Jaione Martinez Cengotitabengoa (Airbus Defence and Space, Spain)

10:00 **RADARSAT+: Status and Evolution**
Patrick Plourde, Etienne Boulais, Stéphane Chalifoux, Stephane Cote, Émile Coté-Pelletier, Eric Dubuc, Nicolas Duchaussoir, Aurélien Fourmault, Phuc Hai Ly, Mays Ahmad, Geneviève Houde, Chloé Mireault-Lecourt and Pierre Nadeau (Canadian Space Agency, Canada)

10:20 **MDA CHORUS Mission Update**
Jayanti J. Sharma and Ron Caves (MDA, Canada); Vince Mantle (Macdonald Dettwiler & Associates Ltd., Canada)

10:40 – 11:10 Coffee Break & Exhibition

Room: Forum

B.4 Multistatic SAR I
Chairs: Markus Bachmann (German Aerospace Center (DLR), Germany); Hubert M.J. Cantalloube (ONERA Université Paris-Saclay, France)

9:00 **Harmony - Intersatellite phase synchronization for bistatic SAR interferometric mission**
Simone Gabrielli and Katarina Jesswein (OHB System AG, Germany); Daniele Mapelli (ARESYS, Italy); Tatiana Martelli (Aresys, Italy); Eduardo Rodrigues-Silva (German Aerospace Center DLR, Germany); Marc Rodriguez-Cassola (DLR, Germany)

9:20 **Multistatic SAR via Joint Sparsity Compressive Sensing for Back-Projection and Experimental Validation**
Jihwan Cheong, Heewoo Lee, Yongsun Yoo, Pyeongju Kim and Wookyung Lee (Korea Aerospace University, Korea (South))

9:40 **Multistatic SAR Synchronization and Baseline Determination with Communication Links**
Reuben Solomon Katz (DLR - German Aerospace Center, Germany); Marc Rodriguez-Cassola (DLR, Germany); Felix Antreich (Aeronautics Institute of Technology (ITA), Brazil); Eduardo Rodrigues-Silva (German Aerospace Center DLR, Germany); Marco Schmidt (Julius-Maximilians-Universität Würzburg, Germany); Alberto Moreira (German Aerospace Center (DLR), Germany)

10:00 **Distributed SAR: Impact of Residual Cross-Track Baselines on the Reconstruction Performance in a SAR Train**
Thomas Kraus and Markus Bachmann (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany); Alberto Moreira (German Aerospace Center (DLR), Germany)

10:40 – 11:10 Coffee Break & Exhibition

10:20 **Distributed spaceborne SAR for enhanced micro-motion frequency resolution**
Finlay Rollo, Greta Zefi and Carmine Clemente (University of Strathclyde, United Kingdom (Great Britain))

Room: Kongresssaal 1

C.4 SAR Meets Foundation Models: From Pretraining to Downstream Tasks (Invited)
Chairs: Ronny Haensch (DLR, Germany); Nicolas Longépé (European Space Agency, France)

9:00 **Prompting Foundation Models for Zero-Shot Ship Instance Segmentation in SAR Imagery**
Islam Mansour (University of the Bundeswehr Munich, Germany & ETH Zürich, Switzerland); Francescopaolo Sica (University of the Bundeswehr Munich (UniBw), Germany); Michael Schmitt (University of the Bundeswehr Munich, Germany)

9:20 **Benchmarking Foundation Models for SAR-based Urban Flood Mapping**
Jie Zhao, Zhitong Xiong and Xiao Xiang Zhu (Data Science in Earth Observation, Technical University of Munich)

9:40 **Leveraging the Segment Anything Model with Multi-Modal Sentinel-1 and Sentinel-2 Data for Landslide Detection**
Pietro Di Stasio (University of Sannio, Italy); Deodato Tapete (Italian Space Agency, Italy); Paolo Gamba (Università degli Studi di Pavia, Italy); Silvia Liberata Ullo (Università Degli Studi del Sannio, Italy)

10:40 – 11:10 Coffee Break & Exhibition

10:00 **FM4CS: A Versatile Foundation Model for Multi-Scale SAR Applications: From Sea Ice to Flood Mapping**
Theodor Forgaard and Øystein Rudjord (Norwegian Computing Center, Norway); Tore Wulf (Danish Meteorological Institute, Denmark); Arnt-Børre Salberg (Norwegian Computing Center, Norway)

10:20 **OceanSAR-2: A Universal Feature Extractor for SAR Ocean Observation**
Alexandre Tuel and Thomas Kerdreux (Galeio, France); Quentin Febvre, Alexis Mouche and Antoine Grouazel (LOPS, Ifremer, France); Jean-Renaud Miadana (OceanScope, France); Antoine Audras (Galeio, France); Chen Wang (Nanjing University of Information Science and Technology, Nanjing, China); Bertrand Chapron (IFREMER, France)

Room: Kongresssaal 2

D.4 Sentinel-1 Mission Update and Experiments (Invited)
Chairs: Ramon Torres (European Space Agency & ESTEC, The Netherlands); Manfred Zink (DLR, Germany))

9:00 **Sentinel-1 Mission Overview and Status After a Decade in Space**
Nuno Miranda (ESRIN, Italy & ESA, France); Muriel Pinheiro (EAS-ESRIN, Italy); Andrea Perrera (European Space Agency, Italy); Thibaut Decoopman (ESA ESTEC, The Netherlands); Ramon Torres (European Space Agency & ESTEC, The Netherlands); Dirk Geudtner (European Space Agency, France); Thomas Ormston and Alistair O'Connell (ESA, Germany); Jean-Baptiste Gratadour (ESA, The Netherlands)

10:40 – 11:10 Coffee Break & Exhibition

9:20 **Results of Sentinel-1C &D In-Orbit SAR System Calibration**
Dirk Geudtner (European Space Agency, France); Mario M Azcueta (European Space Agency / ESTEC, The Netherlands); Ignacio Navas-Traver and Tobias Bollian (European Space Agency, The Netherlands)

9:40 **Sentinel-1D In-Orbit Commissioning results of pointing and temperature compensation assessment**
Beatrice Mai, Andrea Recchia and Chiara Passerini (Aresys, Italy); Lisa Recchia (ARESYS SRL, Italy); Dirk Geudtner (European Space Agency, France); Ignacio Navas-Traver (European Space Agency, The Netherlands); Mario M Azcueta (European Space Agency / ESTEC, The Netherlands); Tobias Bollian (European Space Agency, The Netherlands)

10:00 **DLR's Independent Calibration of the Sentinel-1D SAR System: First Results with an Initial Comparison to Sentinel-1C**
Patrick T.P. Klenk (German Aerospace Center (DLR), Germany); Jakob Giez (German Aerospace Center, DLR, Germany); Kersten Schmidt, Andrea Pulella, Matteo Nannini, Pau Prats-Iraola and Marco Schwerdt (German Aerospace Center (DLR), Germany)

10:20 **Sentinel-1C and Sentinel-1D Internal Calibration Commissioning Results**
Jakob Giez (German Aerospace Center, DLR, Germany); Patrick T.P. Klenk, Kersten Schmidt and Marco Schwerdt (German Aerospace Center (DLR), Germany)

10:40 – 11:10 Coffee Break & Exhibition

Room: Kongresssaal 3

E.4 Security and Surveillance Applications
Chairs: Michael Schmitt (University of the Bundeswehr Munich, Germany); Patrick Berens (Fraunhofer FHR, Germany)

9:00 **Experimental Demonstration of Bistatic SAR Anti-Jamming Performance against Emulated DRFM Interference**
Yongsun Yoo (Korea Aerospace University, Korea (South)); Chanhee Lee (KAIST, Korea (South)); Jihwan Cheong, Pyeongju Kim and Wookyung Lee (Korea Aerospace University, Korea (South))

9:20 **Exploiting Cooperative SAR Satellites with a Ground-Based Receiver Network for Border Protection Enhancement**
Bartosz Falęcki (Warsaw University of Technology, Poland); Detmer Bosma (TNO, The Netherlands); Pedro Gomez-del-Hoyo and Piotr Samczynski (Warsaw University of Technology, Poland)

9:40 **Experimental evaluation of CCD processing using PAMIR-Ka**
Patrick Berens (Fraunhofer FHR, Germany)

10:00 **Enhanced SAR Coherent Change Detection based on Energy-Efficient Multi-Dimensional Attention Spiking Neural Network**
Xinyi Ye, Yizhe Fan and Zirui Ma (Aerospace Information Research Institute, Chinese Academy of Sciences, China & University of Chinese Academy of Sciences, China); Bingchen Zhang (University of Chinese Academy of Sciences, China)

10:40 – 11:10 Coffee Break & Exhibition

10:20 **Evaluation of Advanced SAR Processing Algorithms for Security Applications**
Nida Sakar (German Aerospace Center, Oberpfaffernhofen, Germany); Carmine Frascella and Federico Minati (B-Open Solutions, Italy); Andre Barros Cardoso da Silva, Stefan V. Baumgartner and Gustavo Daniel Martín-del-Campo-Becerra (German Aerospace Center (DLR), Germany); Marc Rodriguez-Cassola (DLR, Germany); Mario Costantini (B-Open Solutions, Italy); Michela Corvino (ESA Centre for Earth Observation (ESRIN), Italy); Pau Prats-Iraola (German Aerospace Center (DLR), Germany)

10:40 – 11:10 Coffee Break & Exhibition

Room: Auditorium

A.5 ALOS-4 Mission Applications and Results (Invited)
Chairs: Takeshi Motohka (Japan Aerospace Exploration Agency, Japan); Ryo Kato (JAXA, Japan)

11:10 **Mission and Operational Status of the Advanced Land Observing Satellite-4 (ALOS-4)**
Ryo Kato, Yohei Kojima, Keisho Ito, Takeshi Motohka and Yukihiro Kankaku (Japan Aerospace Exploration Agency, Japan)

11:30 **System Design and Initial Operation Results of ALOS-4/PALSAR-3**
Masanobu Shibata, Shunsuke Ota, Masataka Yajima and Shohei Nakamura (Mitsubishi Electric Corporation, Japan); Keisho Ito, Takeshi Motohka and Yukihiro Kankaku (Japan Aerospace Exploration Agency, Japan)

11:50 **ALOS-4/PALSAR-3 Initial Calibration/Validation Results**
Takeshi Motohka, Keisho Ito, Masato Ohki, Kazuki Yanagiya and Yutaro Shigemitsu (Japan Aerospace Exploration Agency, Japan)

12:10 **Sensitivity Study of PolSAR Variable Decomposition For Farmlands**
Motofumi Arii and Suzuki Masataka (Mitsubishi Electric Corporation, Japan)

12:30 **On Estimated Parameters of Modified 5-Component Scattering Power Decomposition of PolSAR data**
Hiroyoshi Yamada, Chino Kobayashi and Ryoichi Sato (Niigata University, Japan)

12:50 – 14:00 Lunch Break & Networking

Room: Forum

B.5 Advances in SAR Modes and Techniques I
Chairs: Christian Roemer (Airbus Defence and Space, Germany); Marwan Younis (German Aerospace Center (DLR), Germany)

11:10 **Cluster-based Phase Coregistration Algorithm for Moving Target Detection in SAR images**
Andrea Radius and Ozan Dogan (ICEYE OY, Finland); Risto Vehmas Risto Vehmas and Vladimir Ignatenko (ICEYE Oy, Finland); Leszek Lamentowski, Matthew Nottingham, Jan Krecke, Pierre Leprovost, Jere Vepsa, Santeri Kuronen and Darren Muff (ICEYE OY, Finland)

11:30 **ICEYE Constellation Status Update: Multi-Spotlight, Multi-Image Activities (MIA), Mid-Inclination Orbits, and GEN-4 Upgrades**
Vladimir Ignatenko (ICEYE Oy, Finland); Leszek Lamentowski, Ozan Dogan, Matthew Nottingham, Darren Muff and Pierre Leprovost (ICEYE, Finland); Andrea Radius (ICEYE OY, Finland); Jan Krecke (ICEYE OY, Italy); Risto Vehmas Risto Vehmas (ICEYE Oy, Finland)

11:50 **Data Azimuth Recombination for Along-track SAR Swarm in Time Domain**
Adriano Persico, Federico Ulivieri and Mattia Penati (ARESYS, Italy); Davide Giudici (Aresys srl, Italy)

12:50 – 14:00 Lunch Break & Networking

12:10 **Model-driven Joint Sampling and Reconstruction Network for Azimuth Multichannel SAR System**
Zirui Ma, Yizhe Fan and Xinyi Ye (Aerospace Information Research Institute, Chinese Academy of Sciences, China & University of Chinese Academy of Sciences, China); Zhe Zhang (Aerospace Information Research Institute, Chinese Academy of Sciences & Geroge Mason University, China); Bingchen Zhang (University of Chinese Academy of Sciences, China); Xiaolan Qiu (Institute of Electronics, Chinesa Academy of Sciences, China)

12:30 **Improved Along-Track Deformation Retrieval with ROSE-L using Two-Look ScanSAR**
Simon Trumpf, Pau Prats-Iraola and Douglas Kotsubo (German Aerospace Center (DLR), Germany); Dominik Richter (German Aerospace Center, Germany); Alberto Moreira (German Aerospace Center (DLR), Germany)

12:50 – 14:00 Lunch Break & Networking

Room: Kongresssaal 1

C.5 Next-Gen AI for SAR: Multi-Modal Learning, Generative Models, and Earth Observation Insights I (Invited)
Chairs: Nicolas Longépé (European Space Agency, France); Roberto Del Prete (European Space Agency, France)

11:10 **Sea-State-Aware Wake Segmentation for Maritime Surveillance**
Angela Carmen Cristofano, Andrea Mazzeo, Maria Daniela Graziano and Alfredo Renga (University of Naples Federico II, Italy); Oktay Karakuş (Cardiff University, United Kingdom (Great Britain)); Giuliano Vernengo, Nicola Petacco and Diego Villa (University of Genova, Italy); Davide Bonaldo, Gian Marco Scarpa, Federica Braga, Paolo Vavasori and Stefano Menegon (CNR-ISMAR, Italy); Amedeo Fadini (CNR-ISMAR & IUAV University of Venice Scuola di Dottorato, Italy)

11:30 **Maya4: a Novel Large-Scale Multi-Level SAR Representation Dataset for Machine Learning**
Roberto Del Prete and Gabriele Daga (European Space Agency, France); Cédric Léonard (DLR, Deutsche Zentrum Fuer Luft- Und Raumfahr, Germany & TUM, Technical University of Munich, Germany); Georgia Channing (Hugging Face, France); Nicolas

12:50 – 14:00 Lunch Break & Networking

11:50 **Cryo2S1: Estimating Sea Ice Thickness in Sentinel-1 SAR Imagery Using Deep Learning, CryoSat-2 and Hydrostatic Equilibrium**
Andreas Stokholm (Technical University of Denmark, Denmark); Jack Christopher Landy (UiT The Arctic University of Norway, Norway); Roberto Saldo and Renée Mie Fredensborg Hansen (Technical University of Denmark, Denmark); Tore Wulf (Danish Meteorological Institute, Denmark); Nicolas Longépé (European Space Agency, France); Sine Munk Hvidegaard (Technical University of Denmark, Denmark)

12:10 **Does Sentinel-1 Super-Resolution Improve Building Semantic Segmentation?**
Juan Francisco Amieva (Tracasa Instrumental, Spain & Universidad Pública de Navarra, Spain); Christian Ayala (Tracasa Instrumental, Spain); Mikel Galar (Public University of Navarre, Spain)

12:30 **Multi-Sensor Adaptation of Foundation Generative Models for Worldwide SAR Images Generation**
Solene Debuysère (ONERA, France); Nicolas Trouvé (Onera, France); Nathan Letheule (University of Paris-Saclay & ONERA, France); Elise Colin (DTIS-Onera, University of Paris Saclay, France)

12:50 – 14:00 Lunch Break & Networking

Room: Kongresssaal 2

D.5 Sentinel-1 II (invited)
Chairs: Thibaut Decoopman (ESA ESTEC, The Netherlands);
Nuno Miranda (ESRIN, Italy & ESA, France)

11:10 **Along-Track Interferometry experiment with Sentinel-1C&D**
Mario M Azcueta (European Space Agency / ESTEC, The Netherlands); Christoph H. Gierull (DRDC Ottawa, Canada); Dominik Richter (German Aerospace Center, Germany); Mamoon Rashid (Defence Research and Development Canada, Canada & Carleton University, Canada); Dirk Geudtner (European Space Agency, France); Ramon Torres (European Space Agency & ESTEC, The Netherlands)

11:30 **Enhanced Wave-Mode Experiment with Sentinel-1D**
Paco Lopez Dekker and Philip Conroy (Delft University of Technology, The Netherlands); Mario M Azcueta (European Space Agency / ESTEC, The Netherlands)

11:50 **Sentinel-1C AIS cross-validation with the RADARSAT Constellation Mission**
Stefan Graham (European Space Technology Center (ESA-ESTEC), The Netherlands); Mamoon Rashid (Defence Research and Development Canada, Canada & Carleton University, Canada); Espen Swift (Defence Research and Development Canada, Canada); Christoph H. Gierull (DRDC Ottawa, Canada); Dirk Geudtner (European Space Agency, France); Andre Boyer (Canadian Space Agency, Canada); M Lapointe (CSA, Canada); Montse Pinol Sole (European Space Research and Technology Centre (ESA-ESTEC), The Netherlands); Stephane Cote (Canadian Space Agency, Canada); Ramon Torres (European Space Agency & ESTEC, The Netherlands)

12:50 – 14:00 Lunch Break & Networking

12:10 **Overview of Sentinel-1 Instrument Status, Level-1 Product Performance and Evolutions**
Muriel Pinheiro (EAS-ESRIN, Italy); Antonio Valentino (Starion for ESA, Italy); Guillaume Hajduch (CLS Group, Brest, France); Pauline Vincent (Collecte Localisation Satellites CLS, France); Andrea Recchia, Beatrice Mai and Martin Steinisch (Aresys, Italy); Kersten Schmidt, Christoph Gisinger, Helko Breit and Víctor D Navarro Sanchez (German Aerospace Center (DLR), Germany); Ruben Blériot (Apside, France)

12:30 **Overview of Sentinel-1 Next Generation Mission: Enhanced C-Band Continuity**
Julia Kubanek (ESA/ESTEC, The Netherlands); Lorenzo Iannini (ESA ESTEC, The Netherlands); Malcolm Davidson (ESA/ESTEC, The Netherlands); Dirk Geudtner (European Space Agency, France); Tobias Bollian (European Space Agency, The Netherlands); Ramon Torres (European Space Agency & ESTEC, The Netherlands); Thibaut Decoopman (ESA ESTEC, The Netherlands)

Room: Kongresssaal 3

D.5 Ocean Waves and Sea State Information (Invited)

Chairs: Sven Jacobsen (German Aerospace Center (DLR), Germany); Roland Romeiser (University of Miami, USA)

11:10 **10 years Sea State from worldwide Sentinel-1 SAR archive for ESA Climate Change Initiative CCI**
Andrey Pleskachevsky (German Aerospace Center, Germany); Björn Tings, Stefan Wiehle, Christoph Schnupfhagn and Sven Jacobsen (German Aerospace Center (DLR), Germany)

12:50 – 14:00 Lunch Break & Networking

11:30 **WindFormerV2: Self-Attention Neural Network with Uncertainty Estimation for Wind Retrieval**
Nicolae Catalin Ristea (University Politehnica of Bucharest, Romania); Elena-Beatrice Anghel and Andrei Anghel (National University of Science and Technology Politehnica Bucharest, Romania); Amine Benchaabane (CLS, France); Romain Husson (CLS France, France); Guillaume Hajduch (CLS Group, Brest, France); Antoine Grouazel (Ifremer, Germany); Alexis Mouche (Ifremer, France); Frederic Nouguier (IFREMER, Norway); Mihai Datcu (National University of Science and Technology Politehnica of Bucharest, Romania); Nicolas Longépé (European Space Agency, France)

11:50 **Ocean Current Retrievals from Moving Wave Patterns in Reprocessed Spotlight SAR Images**
Roland Romeiser (University of Miami, USA); Hans Graber (Center for Southeastern Tropical Advanced Remote Sensing, University of Miami, USA)

12.10 **Data-Driven Directional Wave Spectra Retrieval from SAR Cross-Spectra using Deep Learning**
Manuel Lopez-Radcenco, Gilles Guitton, Parth Tripathi and Fabrice Collard (OceanDataLab, France)

12:30 **Wave parameter estimation exploiting line-of-sight diversity with the Harmony mission**
Paco Lopez Dekker (Delft University of Technology, The Netherlands); Alexis Mouche (Ifremer, France)

12:50 – 14:00 Lunch Break & Networking

Room: Auditorium

A.6 ROSE-L Project Development Status (Invited)
Chairs: Nicolas Gebert (European Space Agency & ESTEC, The Netherlands); Michael Ludwig (The Netherlands)

14:00 **ROSE-L Mission Objectives and Science Status**
Lorenzo Iannini (ESA ESTEC, The Netherlands); Julia Kubanek and Malcolm Davidson (ESA/ESTEC, The Netherlands); Nuno Miranda (ESRIN, Italy & ESA, France); Silvia Mezzasoma (ESA, The Netherlands); Steve Osborne (ESA, United Kingdom (Great Britain)); Nico Gebert (ESA/ESTEC, The Netherlands); Adriano Carbone (European Space Agency / ESTEC, The Netherlands); Gianluigi Di Cosimo (European Space Agency ESTEC, Italy)

14:20 **ROSE-L Spacecraft Design Overview and Development Status**
Chiara Cucinella (Thales Alenia Space, Italy); Patrizio Pavia (Thales Alenia Space Italia, Italy); Salvatore Sarno (Thales Alenia Space Italy, Italy); Francesca Spataro (Thales Alenia Space-Italia, Italy); Silvio Fenu (Thales Alenia Space Italia, Italy); Rita Roscigno (Thales Alenia Space Italy, Italy); Maurizio Corvetti (Thales Alenia Space Italia, Italy); Daniele Cardinali and Andrea Guarnieri (Thales Alenia Space, Italy); Marta Bucciarelli (Thales Alenia Space Italia, Italy); Giovanni Bay (Thales Alenia Space, Italy); Aldo Torrini (Thales Alenia Space Italia, Italy); Steve Osborne (ESA, United Kingdom (Great Britain)); Nico Gebert (ESA/ESTEC, The Netherlands); Silvia Mezzasoma (ESA, The Netherlands); Gianluigi Di Cosimo (European Space Agency ESTEC, Italy)

15:40 – 16:10 Coffee Break & Exhibition

14:40 **ROSE-L SAR Instrument Design Overview and Development Status**
Friedhelm Rostan (Airbus DS GmbH, Germany); Karen Mak and Alexander Moessinger (Airbus Defence and Space GmbH, Germany); Paul D Jackson (Airbus Defense and Space Ltd, Germany); Manu Muhiyudin (Airbus Defence and Space Ltd, United Kingdom (Great Britain)); Antonio Bauleo (Thales Alenia Space Italia, Italy); Adriano Carbone (European Space Agency / ESTEC, The Netherlands); Nico Gebert (ESA/ESTEC, The Netherlands)

15:00 **ROSE-L E2ES and Ground Processor Prototype: Architecture, Status and Relevant Results**
Maria J. Sanjuan-Ferrer (German Aerospace Center (DLR), Germany); Marc Rodriguez-Cassola (DLR, Germany); Pau Prats-Iraola and Matteo Nannini (German Aerospace Center (DLR), Germany); Tatiana Martelli, Riccardo Piantanida and Andrea Recchia (Aresys, Italy); Davide Giudici (Aresys srl, Italy); Salvatore Sarno (Thales Alenia Space Italy, Italy); Marta Bucciarelli (Thales Alenia Space Italia, Italy); Silvia Mezzasoma (ESA, The Netherlands)

15:20 **Impact of the Ionosphere on the External Calibration of ESA's ROSE-L System**
Jens Reimann, Kersten Schmidt and Patrick T.P. Klenk (German Aerospace Center (DLR), Germany); Jakob Giez (German Aerospace Center, DLR, Germany); Marco Schwerdt (German Aerospace Center (DLR), Germany)

15:40 – 16:10 Coffee Break & Exhibition

Room: Forum

B.6 Advances in SAR Modes and Techniques II
Chairs: Davide Giudici (Aresys srl, Italy); Alberto M Zurita (Airbus Defence and Space, Spain)

14:00 **Virtual Delay-Emission (VDE): A High-Resolution and Wide-Swath (HRWS) Imaging Mode for Spaceborne MIMO-SAR**
Yanyan Zhang, Akira Hirose and Ryo Natsuaki (The University of Tokyo, Japan)

14:20 **Achieving a Continuous Duty Cycle with the f-STEC Imaging Mode**
Dominik Thois (German Aerospace Centre (DLR), Germany); Marwan Younis (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany)

14:40 **Trade-Off Analysis for Staggered-SAR BLUE Interpolation using Bit-True Simulation**
Johann Christian Marten and Marwan Younis (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany)

15:00 **UAV embedded circular SAR novel image generation and automated 3D reconstruction**
Vo Kim Thang (Satie - ENS-PARIS-SACLAY); Xavier de Milly and Frederic Brigui (ONERA, France)

15:20 **Long-Term Evolution and Current Status of TerraSAR-X and TanDEM-X**
Allan Bojarski (German Aerospace Center, Germany); Markus Bachmann, Johannes Böer, Christopher Wecklich, Patrick T.P. Klenk and Kersten Schmidt (German Aerospace Center (DLR), Germany); Ulrich Steinbrecher (DLR, Germany)

15:40 – 16:10 Coffee Break & Exhibition

Room: Kongresssaal 1

C.6 Next-Gen AI for SAR: Multi-Modal Learning, Generative Models, and Earth Observation Insights II (Invited)
Chairs: Nicolas Longépé (European Space Agency, France); Roberto Del Prete (European Space Agency, France)

14:00 **OpenSAR Insight: AI-Ready Datasets for Dark Vessel, Flood, and RFI Detection in Raw Sentinel-1 Data**
Mari-Cortes Benito-Ortiz and David Mata-Moya (University of Alcalá, Spain); Juan Manuel Cuerda Muñoz, Cristina Hiedra and Marcos García Rodriguez (INTA, Spain); Anya Forestell, Abdulhameed Yunusa and Hamideh Kerdegari (Indra Deimos Space UK LTD, United Kingdom (Great Britain)); Giorgia Gobbi (Indra Deimos Space, Spain); Daniel Dutra (Indra Deimos Space UK LTD, United Kingdom (Great Britain)); Natacha Fairburn (Indra Deimos UK LTD, United Kingdom (Great Britain)); Rohaan Ahmed (Indra Deimos Space, United Kingdom (Great Britain)); Andrei-Lucian Alexe, Bogdan-Gabriel Prisecariu and Rares - Alexandru Ilie (Indra Deimos SRL, Romania); Roberto Del Prete and Nicolas Longépé (European Space Agency, France)

14:20 **Towards end-to-end SAR raw data handling: RCMC data compression using Hyper-prior autoencoders**
Cédric Léonard (Technical University of Munich and German Aerospace Center (DLR)); Roberto Del Prete (ESA Φ-lab, European Space Research Institute (ESRIN), Italy); Fran cescopaolo Sica (Department Aerospace Engineering, University of the Bundeswehr Munich, Neubiberg, Germany)

15:40 – 16:10 Coffee Break & Exhibition

14:40	**ZeroFlood: Flood Hazard Mapping from Single-Modality SAR Using Geo-Foundation Models** *Hyeongkyun Kim (German Aerospace Center (DLR), Germany); Orestis Oikonomou (ETH Zürich, Switzerland & ETH AI Center, Switzerland)*
15:00	**Hidden Scars in Green: Label-Efficient Mapping of Artisanal Mining in Forested Areas with Generative Foundation Models** *Can Michael Hucko (İstanbul Technical University, Turkey); Ridvan Salih Kuzu (German Aerospace Center, Germany); Stella Ofori-Ampofo (Technical University of Munich, Germany); Corneliu Octavian Dumitru (German Aerospace Center (DLR), Germany); Nicolas Longépé (European Space Agency, France)*
15:20	**Bridging Vision and Language for SAR Imagery** *Nicolas Trouvé (ONERA, University Paris-Saclay (France), France); Solene Debuysère (ONERA, France); Nathan Letheule (University of Paris-Saclay & ONERA, France); Elise Colin (DTIS-Onera, University of Paris Saclay, France); Luc Vignaud (ONERA, University of Paris-Saclay, France); Olivier Lévêque (ONERA, France)*

15:40 – 16:10 Coffee Break & Exhibition

Room: Kongresssaal 2

D.6 Cosmo-SkyMed Second Generation: Mission and System (Invited)
Chairs: Andrea Torre (Thales Alenia Space, Italy); Roberto Venturini (Thales Alenia Space, Italy)

14:00 **COSMO-SkyMed Mission Outline**
Axel Oddone (E-GEOS, Italy); Giuseppe Catalano (Italian Ministry of Defence, Italy); Silvia Natalucci (ASI, Italy); Maria Virelli, Antonio Montuori and Francesco Tataranni (Italian Space Agency (ASI), Italy); Marco Di Clemente (Agenzia Spaziale Italiana, Italy); Daniele Santese, Rino Lorusso, Angelo Daniele Ciminelli and Vincenzo Martucci (Italian Space Agency (ASI), Italy); Rita Carpentiero and Luigi De Angelis (Italian Space Agency, Italy)

14:20 **CSG Expansion to 4 Satellites - Spacecraft design**
Silvia Occhigrossi (Thales Alenia Space Italia, Italy); Fabrizio Gennari (Thales Alenia Space, Italy); Gerardo Spera and Anna Croce (Thales Alenia Space Italia, Italy); Giancarlo Amedeo Tenore and Stefano Fabbri (Thales Alenia Space, Italy); Michela Veredice (Thales Alenia Space Italia, Italy); Saverio Borchi (Thales Alenia Space, Italy); Simone Dell'Agnello (Laboratori Nazionale di Frascati (LNF) of Istituto Nazionale di Fisica Nucleare (INFN), Italy); Mattia Tibuzzi (Laboratori Nazionale di Frascati (LNF) of Istituto Nazionale di Fisica, Italy); Lorenzo Salvatori (Laboratori Nazionale di Frascati (LNF) of Istituto Nazionale di Fisica Nucleare, Italy); Marco Di Clemente (Agenzia Spaziale Italiana, Italy); Emanuele Tedeschi (Ministero Della Difesa, Italy)

15:40 – 16:10 Coffee Break & Exhibition

14:40 **CSG Espansione a 4 Satelliti - SAR instrument design and performance**
Michela Veredice, Marta Tecla Falconi and Raffaele Carnesecchi (Thales Alenia Space Italia, Italy); Massimiliano Imparato (Thales Alenia Space Italy, Italy); Andrea Di Domenico and Alessandro Santoni (Thales Alenia Space Italia, Italy); Antonio Montuori, Francesco Tataranni, Maria Virelli, Rino Lorusso and Claudia Facchinetti (Italian Space Agency (ASI), Italy); Giuseppe Catalano (Italian Ministry of Defence, Italy)

15:00 **CSG squinted acquisitions and theatre performance**
Diego Calabrese (Thales Alenia Space Italia, Italy); Francesco Tataranni, Antonio Montuori, Rino Lorusso and Claudia Facchinetti (Italian Space Agency (ASI), Italy); Giuseppe Catalano (Italian Ministry of Defence, Italy)

15:20 **CSG innovative capability deployed through the third and fourth Satellite**
Diego Calabrese (Thales Alenia Space Italia, Italy); Claudia Facchinetti (Italian Space Agency (ASI), Italy); Marco Di Clemente (Agenzia Spaziale Italiana, Italy); Francesco Longo (ASI, Italy); Emanuele Tedeschi (Ministero Della Difesa, Italy)

15:40 – 16:10 Coffee Break & Exhibition

Room: Kongresssaal 3

E.6 Ship Detection and Maritime Applications
Chairs: Sushil Kumar Joshi (German Aerospace Center (DLR), Germany); Fairouz Stambouli (German Aerospace Center (DLR), Germany)

14:00 **Estimating Ship Velocity with Stereoradargrammetry in Long-baseline Bistatic SAR Systems: Verification on Wadden SAR Dataset**
Antonio Gigantino, Riccardo Francesco Magnante and Alfredo Renga (University of Naples Federico II, Italy)

14:20 **Ship Behavior Judgment Based on Spaceborne SAR Images**
Yongchen Pan (Beihang University, China); HongCheng Zeng and Wei Yang (BeiHang University, China); Xinwei An, Yamin Wang, Haochuan Wang and Siyuan Sun (Beihang University, China); Jie Chen (School of Electronics and Information Engineering, Beihang University, China)

14:40 **An Eigendecomposition Based Matched Filter and Feature Extraction for Marine Targets with Compact-Polarimetric (CP) SAR**
Mamoon Rashid (Defence Research and Development Canada, Canada & Carleton University, Canada); Christoph H. Gierull (DRDC Ottawa, Canada); Sreeraman Rajan (Carleton University, Canada)

15:40 – 16:10 Coffee Break & Exhibition

15:00 **Super-High Resolution Ocean Surface Wind Retrieval from Capella SAR imagery**
Yuriy Goncharenko and Gordon Farquharson (Capella Space, USA)

15:20 **SAR Maritime Target Robust Detection Model in Range-Doppler Domain: Initial results**
Yiwen Wang, Zhongyuan Ji, Deshui Yu and Hui Bi (Nanjing University of Aeronautics and Astronautics, China)

15:40 – 16:10 Coffee Break & Exhibition

Room: Auditorium

A.7 SAR System/Payload Equipment
Chairs: Salvatore D'Addio (ESA, The Netherlands; Nico Gebert (ESA/ESTEC, The Netherlands)

16:10 **ROSE-L Digital Back-end Design Overview and Development Status**
George Marsden (Airbus Defence and Space Ltd, United Kingdom); Manu Muhiyudin (Airbus Defence and Space Ltd, United Kingdom (Great Britain)); Paul D Jackson (Airbus Defense and Space Ltd, Germany); Malte Esslinger (Airbus Defence and Space GmbH, Germany); Friedhelm Rostan (Airbus DS GmbH, Germany)

16:30 **T/R Module Pre-Development for Next Generation High-End Spaceborne SAR Instruments**
Andreas Fleckenstein, Ralf Rieger, Markus Adolph (HENSOLDT Sensors GmbH, Germany); Marco Del Marro, Sebastian Ruess (Airbus Defence and Space GmbH, Germany)

16:50 **On-Board Processing and Data Compression Techniques for VISAR, the Interferometric SAR Instrument in the VERITAS mission**
Eva Peral (Jet Propulsion Laboratory, USA); Scott Hensley (Jet Propulsion Laboratory & Radar Science and Engineering Section, USA); Joel Amao-Oliva, Pau Prats-Iraola, Andreas Reigber, Marwan Younis (German Aerospace Center (DLR), Germany)

19:00 – 23:00 Conference Dinner at Kurhaus Baden-Baden

17:10 **Light SAR Digital Processor "LISARD" Project with Italian Space Agency**
Ruben Berteletti and Simone Mancon (Aresys Srl, Italy); Paolo Falcone (Aresys srl, Italy); Letizia Lubrano (Aresys Srl, Italy); Giorgia Guerrisi and Domenico Barretta (University of Rome Tor Vergata, Italy); Fabio Del Frate (Università degli Studi di Roma, Italy); Giuliano Ranuzzi (ASI, Italy)

17:30 **Analysis and Demonstration of Analog SAR Signals on an Optical Carrier for Enabling Inter-satellite Links**
Josef Ydreborg, Lucas Leonardo Lamberti and Sigurd Huber (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany)

Room: Forum

B.7 Next Generation SAR Systems
Chairs: Junghyo Kim (Airbus DS GmbH & Space System, Germany); José Márquez Martinez (Radarmetrics, Spain)

16:10 **SwitchSAR: A Novel SAR Mode for Low NESZ Stripmap Imaging**
Michelangelo Villano (German Aerospace Center (DLR), Germany)

16:30 **On the Equalization of F-Scan SAR Imaging Performance**
João Pedro Turchetti Ribeiro, Thomas Kraus and Markus Bachmann (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany); Alberto Moreira (German Aerospace Center (DLR), Germany)

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16:50 **Concept and Performance of a Stripmap-F-STEC Mode to Image Wide Swaths at High Resolution with the Novel StriX Small Satellite**
Federica Bordoni (German Aerospace Center (DLR), Germany); Dominik Thois (German Aerospace Centre (DLR), Germany); Marwan Younis (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany); Alberto Moreira (German Aerospace Center (DLR), Germany); Naoto Onodera (Synspective, Japan); Gerald Baier (Synspective Inc., Japan); Mauro Mariotti d'Alessandro (Synspective Inc., unknown); Budhaditya Pyne (Synspective Inc. & Japan Aerospace Exploration Agency, Japan); Stefan Chelariu and Toshihiro Obata (Synspective, Japan)

17:10 **Examining the Feasibility of MEO-LEO/VLEO Mixed-Orbit SAR Constellation for the Consistent Monitoring of the Earth**
Jeongbae Kim and Jaebaek Jang (Yonsei University, Korea (South)); Yunha Jung (Yonsei University, Korea (South), Korea (South)); Tae-Yong Park (STEPLab, Korea (South)); Hyun-Ung OH (Korea Aerospace University and STEP Lab. Ltd., Korea (South)); Min-Ho Ka (Yonsei University, Korea (South))

17:30 **Digital Beamforming Imaging Techniques for a Low Orbit Synthetic Aperture Radar Instruments**
Marwan Younis, Fairouz Stambouli, Mariantonietta Zonno and Sigurd Huber (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany); Koen Mouthaan (NUS, Singapore)

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Room: Kongresssaal 1

C.7 Harmony (Invited)
Chairs: Ernesto Imbembo (European Space Agency, The Netherlands); Daniele Petrolati (ESA ESTEC, European Space Agency, The Netherlands)

16:10 **Harmony SAR Instrument Overview and Performance**
Davide Maria Perfetto (Thales Alenia Space Italia S.p.A., Italy); Daniele Mapelli (ARESYS, Italy); Andrea Olanda (Thales Alenia Space - Italia, Italy); Tiziano Cordischi (Thales Alenia Space Italia, Italy); Francesca Temussi (Thales Alenia Space Italia S.p.A., Italy); Simone Gabrielli, Katarina Jesswein and Alexander Stark (OHB System AG, Germany); Florence Hélière (European Space Agency ESTEC, The Netherlands); Daniele Petrolati (ESA ESTEC, European Space Agency, The Netherlands); Ernesto Imbembo (European Space Agency, The Netherlands)

16:30 **Harmony SAR Instrument Architecture**
Davide Maria Perfetto (Thales Alenia Space Italia S.p.A., Italy); Andrea Olanda (Thales Alenia Space - Italia, Italy); Tiziano Cordischi (Thales Alenia Space Italia, Italy); Francesca Temussi (Thales Alenia Space Italia S.p.A., Italy); Paolo Campana (ThalesAleniaSpace-Italia, Italy); Danilo Fortini, Nunzio Torto, Stefano Paolucci, Gabriel Adrian Mihu and Francesco Barletta (Thales Alenia Space Italia, Italy); Emanuele Carlà, Emanuele Meloni and Lorenzo Antonini (Systems Development & Support, Italy); Simone Gabrielli, Katarina Jesswein and Alexander Stark (OHB System AG, Germany); Florence Hélière (European Space Agency ESTEC, The Netherlands); Daniele Petrolati (ESA ESTEC, European Space Agency, The Netherlands); Ernesto Imbembo (European Space Agency, The Netherlands)

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16:50 **Harmony Fine Time Synchronization Algorithm: Simulation Test Campaign Results**
Daniele Mapelli (ARESYS, Italy); Davide Maria Perfetto (Thales Alenia Space Italia S.p.A., Italy); Davide Giudici (Aresys srl, Italy); Andrea Olanda (Thales Alenia Space - Italia, Italy); Francesca Temussi (Thales Alenia Space Italia S.p.A., Italy); Paolo Falcone (Aresys srl, Italy); Simone Gabrielli, Katarina Jesswein and Alexander Stark (OHB System AG, Germany); Florence Hélière (European Space Agency ESTEC, The Netherlands); Daniele Petrolati (ESA ESTEC, European Space Agency, The Netherlands); Ernesto Imbembo (European Space Agency, The Netherlands)

17:10 **On the Definition of in/out-of-band Harmony SAR Instrument Susceptibility**
Davide Maria Perfetto (Thales Alenia Space Italia S.p.A., Italy); Anna Di Fiore and Emiliano Scione (Thales Alenia Space Italia, Italy); Andrea Olanda (Thales Alenia Space - Italia, Italy); Francesca Temussi (Thales Alenia Space Italia S.p.A., Italy); Simone Gabrielli, Katarina Jesswein and Alexander Stark (OHB System AG, Germany); Florence Hélière (European Space Agency ESTEC, The Netherlands); Daniele Petrolati (ESA ESTEC, European Space Agency, The Netherlands); Ernesto Imbembo (European Space Agency, The Netherlands)

17:30 **Harmony breadboard E2E simulator: L1a performance validation**
Tatiana Martelli (Aresys, Italy); Daniele Mapelli (ARESYS, Italy); Federica Passerini (Aresys, Italy); Davide Maria Perfetto (Thales Alenia Space Italia S.p.A., Italy); Simone Gabrielli, Katarina Jesswein and Alexander Stark (OHB System AG, Germany); Pedro Jurado Lozano (European Space Agency, The Netherlands); Florence Hélière (European Space Agency ESTEC, The Netherlands); Daniele Petrolati (ESA ESTEC, European Space Agency, The Netherlands); Ernesto Imbembo (European Space Agency, The Netherlands)

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Room: Kongresssaal 2

D.7 Cosmo-SkyMed Second Generation: Applications (invited)
Chairs: Diego Calabrese (Thales Alenia Space Italia, Italy);
Michela Veredice (Thales Alenia Space Italia, Italy)

16:10 **A COSMO-SkyMed Dataset For Maritime Monitoring**
Andrea Galario, Maria Daniela Graziano, Andrea Mazzeo, Angela Carmen Cristofano, Margareth Di Vaia and Alfredo Renga (University of Naples Federico II, Italy); Ravellino Fabiana (Euro.soft S.r.l, University of Naples Federico II, Italy); Valerio Pisacane (Eurosoft SRL, Italy); Aurigemma Renato, Marco Raimondo Focone and Andrea Lo Russo (Euro.soft SRL, Italy); Angela Volpe (Agenzia Spaziale Italiana, Italy); Deodato Tapete (Italian Space Agency, Italy); Maria Virelli (Italian Space Agency (ASI), Italy)

16:30 **Insights from scientific applications of COSMO-SkyMed Second Generation data for future downstream**
Deodato Tapete (Italian Space Agency, Italy); Antonio Montuori (Italian Space Agency (ASI), Italy); Giovanni Paolo Blasone (Italian Space Agency, Italy); Matteo Picchiani and Maria Virelli (Italian Space Agency (ASI), Italy); Simona Zoffoli Zoffoli (Italian Space Agency, Italy); Silvia Natalucci (ASI, Italy); Claudia Facchinetti (Italian Space Agency (ASI), Italy); Vincenzo Pulcino (Italian Space Agency, Italy); Francesco Longo (ASI, Italy); Diego Calabrese (Thales Alenia Space Italia, Italy)

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16:50 **Surface Current and Wind Field Retrieval over Lakes: the Contribution of Very High-Resolution Imaging with COSMO-SkyMed**
Andrea Petrossi (Italian Council of Research (CNR), Italy); Virginia Zamparelli (IREA-CNR, Italy); Simona Verde (CNR-IREA, Italy); Marina Amadori, Francesca De Santi and Mariano Bresciani (CNR, Italy); Giacomo De Carolis (National Research Council of Italy, Italy); Claudia Giardino (CNR, Italy); Lorenzo Giovannini, Sebastiano Piccolroaz and Marco Toffolon (Università di Trento, Italy); Marco Papetti and Giulia Valerio (Università di Brescia, Italy); Gianfranco Fornaro (CNR-IREA, Italy)

17:10 **National-Scale Full-Resolution P-SBAS Processing of Large CSK/CSG and SAOCOM-1 SAR Datasets for the Built-Up Environment Displacements Retrieval**
Pasquale Striano (IREA-CNR, Italy); Manuela Bonano (IREA CNR, Italy); Francesco Casu (Istituto per il Rilevamento Elettromagnetico dell'Ambiente, Italy); Sabatino Buonanno and Claudio De Luca (IREA-CNR, Italy); Adele Fusco (CNR-IREA & University of Sannio, Italy); Michele Manunta (CNR-IREA, Italy); Mario Fernando Monterroso (IREA CNR, Italy); Paquale Noli and Giovanni Onorato (IREA-CNR, Italy); Yenni Lorena Belen Roa (Istituto per il Rilevamento Elettromagnetico dell'Ambiente (IREA), Italy); Yasir Muhammad (Università Degli Studi di Napoli Parthenope, Italy); Ivana Zinno (IREA, CNR, Italy); Riccardo Lanari (IREA-CNR, Italy)

17:30 **AI-based Building Footprint Segmentation from COSMO-SkyMed SAR Imagery: A Case Study over Southern Italy**
Pegah Moradpour (University of Pavia, Italy); Babak Memar (Sapienza University di Roma, Italy); Paolo Gamba (Università degli Studi di Pavia, Italy)

19:00 – 23:00 Conference Dinner at Kurhaus Baden-Baden

Room: Kongresssaal 3

E.7 SAR Tomography
Chairs: Laurent Ferro-Famil (ISAE-SUPAERO, University of Toulouse & CESBIO, University of Toulouse, France); Gerhard Krieger (DLR, Germany)

16:10 **Towards a tomographic profiling of snow and vegetation using bistatic KAPRI**
Esther Mas Sanz (ETH Zurich, Switzerland); Othmar Frey (ETH Zurich & Gamma Remote Sensing, Switzerland); Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany)

16:30 **3-D Double-Bounce Mapping Using MIMO-SAR Tomography**
Olena Sarabakha (German Aerospace Center (DLR), Germany); Tobias Rommel (German Aerospace Centre (DLR), Germany); Gerhard Krieger (DLR, Germany); Michelangelo Villano (German Aerospace Center (DLR), Germany)

16:50 **Conceptualization and First Results of an Airborne S-Band SAR-System with Single-Pass Tomography Capabilities**
Maximilian Eitel (University of the Bundeswehr Munich, Germany); Martin Russ (Bundeswehr University Munich, Germany); Othmar Frey (ETH Zurich & Gamma Remote Sensing, Switzerland); Francescopaolo Sica (University of the Bundeswehr Munich (UniBw), Germany); Michael Schmitt (University of the Bundeswehr Munich, Germany)

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17:10 **Advanced Experimental Analyses of Forest Short-term Decorrelation for Tomography with Tandem Satellites**
Giulia Buttitta and Fabrizio Lombardini (University of Pisa, Italy)

17:30 **First Tomographic SAR Imaging Experiment of Fucheng-1/Shenqi SAR Satellite via Very-high Resolution Complex Image Dataset**
Yuan Zhong, Hui Bi, Linfeng Liu, Chunhui Li, Shuang Jin and Jingjing Zhang (Nanjing University of Aeronautics and Astronautics, China)

19:00 – 23:00 Conference Dinner at Kurhaus Baden-Baden

Room: Auditorium

A.8 Multistatic SAR II
Chairs: Pierfrancesco Lombardo (University of Rome La Sapienza, Italy); Paco Lopez Dekker (Delft University of Technology, The Netherlands)

09:00 **Analytical Calculation of Steering Laws in Multistatic SAR for Zero Doppler or Full Beam Overlap Acquisitions**
Josef Hermann Martin Mittermayer (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany)

09:20 **Bistatic SAR with Spaceborne Transmitters and Airborne Receivers: The Case of Very Large Bistatic Angles**
Nertjana Ustalli and Maxwell Nogueira Peixoto (German Aerospace Center (DLR), Germany); Francesca Scala (German Aerospace Center DLR, Germany); Gerhard Krieger (DLR, Germany); Tim Peikert (HENSOLDT Sensors GmbH, Germany); Christoph Fischer (Hensoldt Sensors GmbH, Germany); Tobias Chaloun (Hensoldt Sensors GmbH, Germany & University of Ulm, Institute of Microwave Engineering, Germany); Michelangelo Villano (German Aerospace Center (DLR), Germany)

09:40 **Imaging performance of the CSG/PLT-1 Spaceborne Bistatic SAR System in Phase-2**
Farah Rasheed Abbasi (University of Parthenope Napoli Italy, Italy); Alejandro Arias-Gallegos (University of Naples Federico II, Italy); Gerardo Di Martino (Università di Napoli Federico II, Italy); Alessio Di Simone (University of Naples Federico II, Italy); Antonio Iodice (Università di Napoli Federico II, Italy); Daniele Riccio (University of Naples Federico II, Italy); Giuseppe Ruello (Università di Napoli Federico II, Italy); Giovanni Paolo Blasone, Deodato Tapete and Simona Zoffoli Zoffoli (Italian Space Agency, Italy)

10:40 – 11:10 Coffee Break & Exhibition

10:00 **The Bistatic Airborne SAR System DuoLIM**
Andreas Reigber, Eric Schreiber and Markus Limbach (German Aerospace Center (DLR), Germany); Tobias Rommel (German Aerospace Centre (DLR), Germany); Diego Lorente (German Aerospace Center (DLR), Germany); Stephan Dunkel (German Aerospace Center (DLR), Germany & German Aerospace Center Oberpfaffenhofen, HR, Germany); Alberto Moreira (German Aerospace Center (DLR), Germany)

10:20 **An improved numerical approach for frequency domain processing of bistatic SAR data: The Harmony case**
Giorgio Porpiglia (Aresys, Italy); Daniele Mapelli (ARESYS, Italy); Tatiana Martelli and Riccardo Piantanida (Aresys, Italy); Adriano Persico (ARESYS, Italy); Pietro Guccione (Aresys, Italy); Davide Giudici (Aresys srl, Italy)

Room: Forum

B.8 SAR Frontend Technologies and Building Blocks (Invited)
Chairs: Iain Davies (ESA ESTEC, The Netherlands): Elisa Cipriani (ESA-ESTEC, The Netherlands)

09:00 **Architecture of a P-Band, GaN based Power Amplifier Subsystem for SAR application**
Fabrizio Marrese, Elia Pancini Pancini, Gianluigi Cassani and Alessandro Piana (Leonardo Spa, Italy)

09:20 **ROSE-L TRM Development Status and Multipactor and Corona Verification**
Antonio Bauleo (Thales Alenia Space Italia, Italy); Massimiliano Imparato, Benedetto Pasciuto and Daniele Prosperini (Thales Alenia Space Italy, Italy)

10:40 – 11:10 Coffee Break & Exhibition

09:40 **C-Band Front-End Receive Modules for the Harmony SAR Instrument**
Massimiliano Imparato, Mauro Frediani, Alessandro Barigelli, Fabiano Boccolini and Antonella Lombardo (Thales Alenia Space Italy, Italy); Ernesto Imbembo (European Space Agency, The Netherlands); David Cuadrado-Calle and Antonino Tobia (European Space Agency ESTEC, The Netherlands); Daniele Petrolati (ESA ESTEC, European Space Agency, The Netherlands); Florence Hélière (European Space Agency ESTEC, The Netherlands)

10:00 **Development of Interferometric SAR Altimeter for Sentinel 3 Next Generation Topography Mission**
Simone Meschino (ESA, The Netherlands); Demeestere Franck and Marc Deschaux-Beaume (Thales Alenia Space, France); Jean-Damien Desjonqueres, Alejandro Egido and Jesus Rancano Fernandez (ESA, The Netherlands); Alexandre Houpert and Laurent Phalippou (Thales Alenia Space, France); Pierrik Vuilleumier (ESA, The Netherlands)

10:20 **SAR front-end design enabling advanced Earth observation capabilities at ESA**
Iain Davies (ESA ESTEC, The Netherlands); Petronilo Martin-Iglesias (European Space Agency, The Netherlands)

10:40 – 11:10 Coffee Break & Exhibition

Room: Kongresssaal 1

C.8 AI in SAR Processing
Chairs: Ernesto Imbembo (European Space Agency, The Netherlands); Piotr Samczynski (Warsaw University of Technology, Poland)

09:00 **Deep Learning for Speckle Removal in Dual-Polarimetric SAR Images**
Alejandro Mestre-Quereda, Juan Manuel Lopez-Sanchez and Victor Cazcarra-Bes (University of Alicante, Spain); Juan Cicuendez Perez (Hisdesat Servicios Estratégicos, S.A., Spain)

09:20 **AI4TDX: How can AI leverage the exploitation of TanDEM-X data to jointly benefit science and shape future mission concepts?**
Paola Rizzoli and Daniel Carcereri (German Aerospace Center (DLR), Germany); Alexandre Becker Campos (Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Germany & German Aerospace Center (DLR), Germany); Nicola Gollin (German Aerospace Center, Germany); Luca Dell'Amore (German Aerospace Center (DLR), Germany); Federico Ghio (German Aerospace Center (DLR), Germany & Università di Trento, Italy); Jose-Luis Bueso-Bello, Carolina González and Michele Martone (German Aerospace Center (DLR), Germany); Manfred Zink (DLR, Germany)

09:40 **Beyond MERLIN: A Multi-Scale Self-Supervised Framework for Despeckling**
Stella Basso-Lacroix (Télécom Paris, France & CNES, France); Thomas Bultingaire (Télécom Paris, France); Loic Denis (Université Jean Monnet, France); Nicolas Gasnier (Centre National d'Etudes Spatiales, France); Damien Desroches (CNES, France); Florence Tupin (Télécom ParisTech, France)

10:40 – 11:10 Coffee Break & Exhibition

10:00 **Quantum-Inspired Robust and Scalable SAR Object Classification**
Maximilian R. Scharf and Marco Trenti (Tensor AI Solutions GmbH, Germany); Felix Bock, Padraig Davidson and Tobias Brosch (Hensoldt Sensors GmbH, Ulm, Germany); Benjamin Rodrigues de Miranda (Deutsches Zentrum Für Luft- Und Raumfahrt, Germany & Hensoldt, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany); Sigurd Huber (German Aerospace Center (DLR), Germany); Timo Felser (Tensor AI Solutions GmbH, Germany)

10:20 **Adaptive Interference Removal in InSAR Application**
Parivash Lumsdon (Airbus Defence and Space, Germany); Elif Özcakir and Wolfgang Koppe (Airbus Defence and Space GmbH, Germany); Jürgen Janoth (Airbus Defence and Space, Germany); Matteo Emanuelli and Jérôme Bonvin (Airbus Defence and Space GmbH, Germany)

10:40 – 11:10 Coffee Break & Exhibition

Room: Kongresssaal 2

D.8 First Year of NISAR I (Invited)
Chairs: Paul A. Rosen (Jet Propulsion Laboratory, USA); Howard Zebker (Stanford University, USA)

09:00 **The NASA-ISRO Synthetic Aperture Radar Mission: A Post-launch Status Update**
Paul A. Rosen (Jet Propulsion Laboratory, USA); Rashmi Sharma (Indian Space Research Organisation, India); Marco Lavalle (Jet Propulsion Laboratory, California Institute of Technology, USA); Deepak Putrevu (Indian Space Research Organization (ISRO), India); Adrian Borsa (UC San Diego, USA); Alex Gardner and Alexandra Christensen (Jet Propulsion Laboratory, USA); Anup Kumar Das (Indian Space Research Organisation, USA); Benjamin Holt (JPL/NASA, USA); Bernd Scheuchl (University of California, Irvine, USA); Bruce Chapman (Jet Propulsion Laboratory, California Institute of Technology, USA); Catalina Taglialatela (Jet Propulsion Laboratory, USA); Cathleen Jones (JPL/NASA, USA); Chaitra Rao (Indian Space Research Organisation, USA); Durga Rao (Indian Space Research Organisation, India); Ekaterina Tymofyeyeva (NASA Jet Propulsion Laboratory, USA); Eric Rignot (University of California, Irvine, USA); Erika Podest (Jet Propulsion Laboratory, USA); Franz J Meyer (University of Alaska Fairbanks, USA); Gerald W Bawden (NASA, USA); Heresh Fattahi (Jet Propulsion Laboratory, USA); Howard Zebker (Stanford University, USA); Ian R Joughin (Polar Science Center, Applied Physic Lab, University of Washington, USA); Ian Roundhill (Jet Propulsion Laboratory, USA);

10:40 – 11:10 Coffee Break & Exhibition

Jayaprasad P and John Mathew (Indian Space Research Organisation, India); Josef Kellndorfer (Earth Big Data Inc, USA); Joshua R Doubleday (Jet Propulsion Laboratory, USA); K M Sreejith (Indian Space Research Organisation, India); Kyle Mcdonald (Jet Propulsion Laboratory, USA); Mark Simons (Caltech, USA); Narendra Das (Michigan State University, USA); Neeraj Agarwal (Indian Space Research Organisation, India); Nilesh M. Desai (Space Applications Centre, ISRO, India); Paul Siqueira (University of Massachusetts, USA); Phil Barela (Jet Propulsion Laboratory, USA); Praveen Kumar Gupta (ISRO, India); P Venkat Raju (Indian Space Research Organisation, India); Rajat Bindlish (Goddard Space Flight Center, USA); Richard Forster (University of Utah, USA); Rowena Lohman (Cornell University, USA); Sassan Saatchi (Jet Propulsion Laboratory, USA); Sean Helfrich (National Oceanic and Atmospheric Administration, USA); Seungbum Kim (JPL, USA); Shweta Sharma (Space Applications Centre (ISRO), India); Sushil Kumar Singh (Indian Space Research Organisation, India); Thomas Moline (Jet Propulsion Laboratory, USA); V Manavalan Ramanujam (Space Application Center -ISRO, India)

10:40 – 11:10 Coffee Break & Exhibition

09:20 **S-Band SAR on NISAR: Instrument characteristics and results from initial data analysis**
Nilesh M. Desai (Space Applications Centre, ISRO, India); Rashmi Sharma (Indian Space Research Organisation, India); Cvn Rao (Space Applications Centre (ISRO), India); Debajyoti Dhar (Space Applications Centre ISRO, India); Himanshu Patel (Indian Space Research Organisation (ISRO), India); V Manavalan Ramanujam (Space Application Center -ISRO, India); Deepak Putrevu (Indian Space Research Organization (ISRO), India); Suneela Mishra (Space Applications Centre ISRO, India); Anup Kumar Das (Indian Space Research Organisation, USA); Jalpa B Modi (Space Applications Centre, ISRO, India); Harshita Tolani (Indian Space Research Organization, India); Krishna Murari Agrawal (SAC, India); Praveen Kumar Gupta (ISRO, India); Yogesh Tyagi (SAC, ISRO, India); Mr Raghav Mehra (ISRO, India); Sushil Kumar Singh (Indian Space Research Organisation, India); Ulkesh B Desai (SAC, ISRO, India); Samneet Thakur (Space Applications Centre, ISRO, India); Dharmendra Kumar Pandey (Space Applications Centre & Indian Space Research Organization, India); Pragya Arora (PES University, India); K M Sreejith and Neeraj Agarwal (Indian Space Research Organisation, India); Shweta Sharma (Space Applications Centre (ISRO), India); Jayaprasad P (Indian Space Research Organisation, India); Usha Hsv (ISRO, India); Durga Rao (Indian Space Research Organisation, India); Praveen K Thakur (IIRS Dehradun & ISRO, India)

10:40 – 11:10 Coffee Break & Exhibition

09:40 **Use of NISAR data for studying ecosystems - early results**
Paul Siqueira (University of Massachusetts, USA); Bruce Chapman (Jet Propulsion Laboratory, California Institute of Technology, USA); Josef Kellndorfer (Earth Big Data Inc, USA); Kyle Mcdonald, Sassan Saatchi and Alexandra Christensen (Jet Propulsion Laboratory, USA); KC Cushman (Oak Ridge National Laboratory, USA); Brandi Downs (Jet Propulsion Laboratory, USA); Jessica Martinez (University of Massachusetts, USA); Naiara Pinto, Erika Podest and Naveen Ramachandran (Jet Propulsion Laboratory, USA); Leandra Sethares (Earth Big Data, LLC, USA); Narayanarao Bhogapurapu (Indian Institute of Technology Bombay, India)

10:00 **An Overview of NASA-ISRO SAR Mission L-band Science Products in the First Year of Operations**
Heresh Fattahi, Hirad Ghaemi and Brian P Hawkins (Jet Propulsion Laboratory, USA); Bo Huang (Jet Propulsion Laboratory, California Institute of Thechnology); Tyler Hudson (NASA Jet Propulsion Laboratory, USA); Seongsu Jeong, Jungkyo Jung, Samantha Niemoeller, Joanne Shimada and Gustavo H. X. Shiroma (Jet Propulsion Laboratory, California Institute of Technology, USA); Chandini Veeramachaneni (Jet Propulsion Laboratory, USA); Marco Lavalle (Jet Propulsion Laboratory, California Institute of Technology, USA); Scott Shaffer and Paul A. Rosen (Jet Propulsion Laboratory, USA)

10:20 **Comparison Of Radar Interferograms from NISAR and Sentinel-1**
Howard Zebker (Stanford University, USA); Paul A. Rosen (Jet Propulsion Laboratory, USA)

10:40 – 11:10 Coffee Break & Exhibition

Room: Kongresssaal 3

E.8 Snow, Ice and Glacier Applications
Chairs: Jørgen Dall (Technical University of Denmark, Denmark); Krzysztof Orzel (Synspective, Japan)

09:00 **Snow Properties-Aware Deep Learning Framework for Centimeter-Level InSAR DEM Accuracy over Ice Sheets**
Alexandre Becker Campos (Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Germany & German Aerospace Center (DLR), Germany); Antoine Diez-Latteur and Jose-Luis Bueso-Bello (German Aerospace Center (DLR), Germany); Matthias Braun (Friedrich-Alexander-Universität Erlangen Nürnberg (FAU), Germany); Paola Rizzoli (German Aerospace Center (DLR), Germany)

09:20 **Modeling multi-baseline InSAR data from shallow ice-covered lakes**
Paloma Saporta (German Aerospace Center (DLR), Germany & ETH Zurich, Switzerland); Matteo Pardini (German Aerospace Center (DLR), Germany); Evan J. Wilcox (University of Hamburg, Germany); Julia Boike (Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Germany); Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany)

09:40 **Examining DInSAR and PolSAR SWE Retrieval Prerequisites for Snow on Glaciers**
Anna Behrmann (German Aerospace Center (DLR) & ETH Zürich (Application Pending), Germany); Georg Fischer (German Aerospace Center (DLR), Germany); Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany)

10:40 – 11:10 Coffee Break & Exhibition

10:00 **Learning and Predicting Seasonal Glacier Dynamics from HELIX-Fused Sentinel-1 and TerraSAR-X Time Series**
Sarah Hauser (Karlsruhe Institute of Technology (KIT) & Hochschule München University of Applied Sciences, Germany); Andreas Schmitt (Hochschule München University of Applied Sciences, Germany & Institute for Applications of Machine Learning and Intelligent Systems (IAMLIS), Germany); Anna Wendleder (German Aerospace Center (DLR) & Microwaves and Radar Institute, Germany); Stefan Hinz (Karlsruhe Institute of Technology, Germany)

10:20 **Sentinel-1 SAR Repeat-Pass Interferometry for Early Indication of Landfast Ice Breakup Sites: A Case Study in the Canadian Arctic**
Christoph Schnupfhagn and Anja Frost (German Aerospace Center (DLR), Germany)

10:40 – 11:10 Coffee Break & Exhibition

Room: Auditorium

A.9 Airborne and HAPS SAR
Chairs: Adriano Meta (MetaSensing, Italy); Andreas Reigber (German Aerospace Center (DLR), Germany)

11:10 **Initial Test Flights of the DLR HAPSAR Instrument**
Matthias Jirousek (DLR German Aerospace Center, Germany); Markus Peichl, Simon Anger, Rolf Scheiber and Maron Schlemon (German Aerospace Center (DLR), Germany); Kai Bleeke (DLR e.V., Germany)

11:30 **Estimating Ice Permittivity via Travel Time Analysis of Airborne Radar Data from Buried Transponder Signatures**
Letizia Gambacorta (German Aerospace Center (DLR), Germany & German Aerospace Center (DLR), Germany); Andreas Benedikter and Marc Jäger (German Aerospace Center (DLR), Germany); Valentin Marx (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany); Christian Marinus Huber (Universitätsklinikum Erlangen, Section of Experimental Oncology and Nanomedicine & Insitute of Microwaves and Photonics, Germany); Michael Stelzig (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany); Marc Rodriguez-Cassola and Gerhard Krieger (DLR, Germany)

11:50 **Design and Optimization of a Synthetic Aperture Radar System for a High-Altitude Pseudo-Satellite (HAPS) Platform**
Leonardo Carrer, Davide D'Aria and Fabio Gerace (Aresys, Italy); Stefano Moro (Aresys Srl, Italy); Paolo Falcone (Aresys srl, Italy)

12:50 – 14:00 Lunch Break & Networking

12.10 **Ray-Tracing-Based SAR Simulator with Automated Labeling for Rapid Airborne SAR AI Development**
Krzysztof Gromada, Piotr Pokornowski and Maciej Wielgo (XY-Sensing, Poland); Jacek Misiurewicz and Piotr Samczynski (Warsaw University of Technology, Poland)

12:30 **Two-Dimensional Autofocusing for Sparse SAR Imaging Based on Trajectory Error Modeling and Iterative Compensation: Initial Result**
Deshui Yu, Jingjing Zhang, Minyu Zhu, Min Zhou, Xiao Chen and Hui Bi (Nanjing University of Aeronautics and Astronautics, China)

Room: Forum

B.9 SAR Backends (Invited)
Chairs: Malte Esslinger (Airbus Defence and Space GmbH, Germany);
Ricardo Pinto (European Space Research and Technology Centre, The Netherlands)

11:10 **A radar back-end electronics for multi-mission purposes**
Nunzio Torto and Stefano Paolucci (Thales Alenia Space Italia, Italy); Tiziano Botticchio (Thales Alenia Space, Italy); Pasquale Pepe (Thales Alenia Space Italia, Italy); Roberto Capezzali (Thales Alenia Space, Italy); Lorenzo Simone (Thales Alenia Space Italia S.p.A., Italy)

12:50 – 14:00 Lunch Break & Networking

11:30 **AIX-enabled SAR Back-ends for autonomous monitoring and ultra-low-latency early warning services**
Vito Fortunato, Leonardo Amoruso, Cristoforo Abbattista and Enrico Sain (Planetek, Italy); Luigi Agrimano (Planetek Italia Srl, Italy); Stefano Oliva (Planetek Italia srl, Italy); Gianluca Furano (European Space Agency ESTEC, The Netherlands); Daniele Romagnoli (ESA ESRIN, Italy); Stefano Antonetti (D-Orbit, Italy); Lorenzo Feruglio (AIKO, Italy); Raffaele Nutricato (Geophysical Applications Processing, Italy)

11:50 **SAR Backends for Airborne and Spaceborne Radar Applications like PrecISR and OrbitISR**
Tim Peikert, Thomas Möller, Alexander Dallinger and Kosmas Weidmann (HENSOLDT Sensors GmbH, Germany); Michael Brandfass (Hensoldt Sensors GmbH, Germany)

12.10 **Evolution and Trends of SAR Digital Back-ends and Related Key Technology**
Malte Esslinger (Airbus Defence and Space GmbH, Germany); Pasquale Pepe (Thales Alenia Space Italia, Italy); Ricardo Pinto (European Space Research and Technology Centre, The Netherlands)

12:30 **On-board Synthetic Aperture Radar Processing: From Focusing to AI-based Product Generation**
Dominik Günzel, Srikanth Mandapati, Stefan Wiehle, Ulrich Balss and Helko Breit (German Aerospace Center (DLR), Germany)

12:50 – 14:00 Lunch Break & Networking

Room: Kongresssaal 1

C.9 SAR Interferometry I
Chairs: Alfredo Renga (University of Naples Federico II, Italy); Charles Werner (GAMMA Remote Sensing Research and Consulting AG, Switzerland)

11:10 **Joint SAR Image Reconstruction and Coherent Change Detection via Projected Multi-Agent Consensus Equilibrium**
Yizhe Fan, Xinyi Ye and Zirui Ma (Aerospace Information Research Institute, Chinese Academy of Sciences, China & University of Chinese Academy of Sciences, China); Bingchen Zhang (University of Chinese Academy of Sciences, China); YiRong Wu (National Key Laboratory of Microwave Imaging Technology, China)

11:30 **Joint tropospheric and ionospheric impact on Near-Zero Inclination GEO-SAR and optimization of interferometric performances**
Matteo Monti, Alessandro Gatti and Andrea Monti-Guarnieri (Politecnico di Milano, Italy); Martina Lagasio (Cima Research Foundation, Italy)

11:50 **Capella InSAR Constellation Performance: One Year of Mid-Inclination Operations and Validation**
Craig Stringham, Scott Staniewicz, Shaunak De and Gordon Farquharson (Capella Space, USA)

12:50 – 14:00 Lunch Break & Networking

12.10 **NIMBUS-SAR Constellation: Orbital Design and DInSAR Performance Analysis of the new X-Band Italian IRIDE Mission**
Michele Manunta (CNR-IREA, Italy); Federica Cotugno (Università degli Studi di Napoli Federico II, Italy); Paolo Berardino (Istituto per il Rilevamento Elettromagnetico dell Ambiente IREA-CNR, Italy); Manuela Bonano (IREA CNR, Italy); Francesco Casu (Istituto per il Rilevamento Elettromagnetico dell'Ambiente, Italy); Gianluca Montuori and Alfredo Renga (University of Naples Federico II, Italy); Riccardo Lanari (IREA-CNR, Italy)

12:30 **Polarimetric Effects in L-band Interferometric Phase Triplets**
Serdar Rama and Noelia Romero-Puig (German Aerospace Center (DLR), Germany); Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany); Konstantinos P. Papathanassiou (German Aerospace Center, Germany)

12:50 – 14:00 Lunch Break & Networking

Room: Kongresssaal 2

D.9 First Year of NISAR II (Invited)
Chairs: Paul A. Rosen (Jet Propulsion Laboratory, USA); Howard Zebker (Stanford University, USA)

11:10 **Assessing the capability of the NASA ISRO Synthetic Aperture Radar (NISAR) mission to measure deformation at a variety of spatio-temporal scales**
Ekaterina Tymofyeyeva (NASA Jet Propulsion Laboratory, USA); Mark Simons (Caltech, USA); Gerald W Bawden (NASA, USA); Falk Amelung (University of Miami, USA); David Bekaert (Jet Propulsion Laboratory, California Institute of Technology, USA); Adrian Borsa (UC San Diego, USA); Jingyi Chen (University of Texas at Austin, USA); Andrea Donnellan (Purdue University, USA); Kurt Feigl (University of Wisconsin-Madison, USA); Eric Fielding and Marin Govorcin (Jet Propulsion Laboratory, California Institute of Technology, USA); Bradford Hager (Massachusetts Institute of Technology, USA); Emre Havazli (JPL, USA); Rowena Lohman (Cornell University, USA); Zhong Lu (Southern Methodist Univ, USA); Franz J Meyer (University of Alaska Fairbanks, USA); Matthew Pritchard (Cornell University, USA); Howard Zebker (Stanford University, USA); Robert Zinke and Marco Lavalle (Jet Propulsion Laboratory, California Institute of Technology, USA); Paul A. Rosen (Jet Propulsion Laboratory, USA)

11:30 **NISAR Interferometric Sensitivity to Biophysical Land Properties**
Marco Lavalle, Gustavo H. X. Shiroma and Jungkyo Jung (Jet Propulsion Laboratory, California Institute of Technology, USA)

12:50 – 14:00 Lunch Break & Networking

11:50 **NISAR: A Test case for ESA's ROSE-L System Calibration**
Jens Reimann (German Aerospace Center (DLR), Germany); Paul A. Rosen (Jet Propulsion Laboratory, USA); Marco Schwerdt (German Aerospace Center (DLR), Germany); Manfred Zink (DLR, Germany)

12.10 **NISAR pointing calibration results**
Parikshit Parasher, Samneet Thakur and Krishna Murari Agrawal (Space Applications Centre, ISRO, India); Shubham Gupta (Space Applications Centre, India); V Manavalan Ramanujam (Space Application Center -ISRO, India); Jalpa B Modi (Space Applications Centre, ISRO, India)

12:30 **Validation of NISAR wetland inundation requirements using fully polarimetric L-band airborne SAR data**
Bruce Chapman (Jet Propulsion Laboratory, California Institute of Technology, USA); Nancy H French (Michigan Tech Research Institute, USA)

12:50 – 14:00 Lunch Break & Networking

Room: Kongresssaal 3

E.9 Biomass Performance
Chairs: Rolf Scheiber (German Aerospace Center (DLR), Germany); Michael Völker (Airbus DS GmbH, Germany)

11:10 **Ground notched SAR tomography: principles and first application to BIOMASS data**
Laurent Ferro-Famil (ISAE-SUPAERO, University of Toulouse & CESBIO, University of Toulouse, France); Marta Bottani (CESBIO, UNiversity of Toulouse, France); Yue Huang (Meteo-France, France); Francesco Salvaterra (Politecnico di Milano, Italy); Francesco Banda (Aresys, Italy); Stefano Tebaldini (Politecnico di Milano, Italy)

11:30 **The BIOMASS Mission Operational Processors and Early Products Performance**
Muriel Pinheiro (ESA-ESRIN); Giuseppe Jackson (Starion, Italy); Riccardo Piantanida, Federico Boniardi, Francesco Banda, Emanuele Giorgi and Paolo Mazzucchelli (Aresys, Italy); Pau Prats-Iraola (German Aerospace Center (DLR), Germany); Konstantinos P. Papathanassiou and Jun Su Kim (German Aerospace Center, Germany); Antonio Valentino (CS Group for ESA, Bremen, Germany); Michele Caccia (Starion, Italy); Giovanna Palumbo (Serco, Italy); Stefano Tebaldini (Politecnico di Milano, Italy); Klaus Scipal (ESA/ESTEC, The Netherlands); Bjorn Rommen (European Space Agency, ESA/ESTEC, The Netherlands); Cristiano Lopes (ESA-ESRIN, Italy); Clément Albinet (European Space Agency, Italy)

12:50 – 14:00 Lunch Break & Networking

11:50 **Calibration and Validation Results for Biomass Operational Phase**
Andre Barros Cardoso da Silva and Joel Amao-Oliva (German Aerospace Center (DLR), Germany); Jun Su Kim (German Aerospace Center, Germany); Gustavo Daniel Martín-del-Campo-Becerra (German Aerospace Center (DLR), Germany); Felipe Betancourt-Payan (DLR, Germany); Marc Jäger (German Aerospace Center (DLR), Germany); Konstantinos P. Papathanassiou (German Aerospace Center, Germany); Pau Prats-Iraola and Rolf Scheiber (German Aerospace Center (DLR), Germany)

12.10 **Supplementary calibration of BIOMASS SAR data with ice sheets**
Jørgen Dall and Anders Kusk (Technical University of Denmark, Denmark)

12.30 **Tomographic Ground Steering and Terrain Topography Estimation in Forested Areas: Performance and Applications to BIOMASS**
Francesco Salvaterra (Politecnico di Milano, Italy); Laurent Ferro-Famil (ISAE-SUPAERO, University of Toulouse & CESBIO, University of Toulouse, France); Francesco Banda (Aresys, Italy); Naomi Petrushevsky (Politecnico di Mllano, Italy); Stefano Tebaldini (Politecnico di Milano, Italy)

12:50 – 14:00 Lunch Break & Networking

Room: Auditorium

A.10 Systems with Synthetic Aperture
Chairs: Hubert M.J. Cantalloube (ONERA Université Paris-Saclay, France); Matthias Weiß (Fraunhofer FHR, Germany)

14:00 **Phase Error Information from the Shadow Regions of Synthetic Aperture Images**
James Prater (Naval Surface Warfare Center Panama City Division, USA); Stig A V Synnes (Norwegian Defence Research Establishment (FFI) & University of Oslo, Norway)

14:20 **Multi-aspect characterization of internal wave features in synthetic aperture sonar**
Roy E Hansen (Norwegian Defence Research Establishment (FFI) & Department of Informatics, University of Oslo, Norway); Anthony Lyons and Jenna Hare (University of New Hampshire, USA)

14:40 **Advanced Signal Processing for Fine Resolution Mapping of Near-Bed Layers with UWB Ice-Penetrating Radars**
Syed Murtaza Rizvi (University of Alabama, USA); Mishal Thapa (Clarkson University, USA); Brett Fraysher (University of Alabama, USA); Allain Frederick Rapadas and Shriniwas Kolpuke (The University of Alabama, USA); Sara Neshani (University of Alabama, USA); Changhyun Chung and Joohan Lee (Korea Polar Research Institute, Korea (South)); Shuji Fujita (National Institute of Polar Research, Japan); Dorthe Dahl-Jensen (University of Copenhagen, Denmark); Drew Taylor (The University of Alabama, USA); Prasad Gogineni (University of Alabama, USA)

15:40 – 16:00 Awards Ceremony

15.00 **Reading the Physics of Polarimetric Scattering: Temporal Stability and Directionality across Deterministic and Natural Targets**
Elise Colin (DTIS-Onera, University of Paris Saclay, France); Frederic Brigui (ONERA, France); Hubert M.J. Cantalloube (ONERA Université Paris-Saclay, France)

15:20 **3D millimeter wave imaging system for industrial real-time applications**
Marvin Holder (Balluff GmbH & Balluff, Germany); Matthias Hofherr and Andreas Seitz (Balluff GmbH, Germany); Mark Eberspächer (Technische Hochschule Würzburg-Schweinfurt, Germany)

Room: Forum

B.10 On-Board SAR processing
Chairs: Helko Breit (German Aerospace Center (DLR), Germany); Simone Mancon (Aresys Srl, Italy)

14:00 **Unibap SAR Loom - A Real-time, Adaptable Pipeline for In-Orbit SAR Processing**
Oskar Flordal (Unibap, Sweden); Tomas Måhlberg and Anders Persson (Unibap Space Solutions, Sweden); Niklas Ulfvarson (Unibap Space Solutions AB, Sweden); Tova Jahnke (Unibap AB, Sweden)

15:40 – 16:00 Awards Ceremony

14:20 **Closed-loop Cognitive SAR: Use Case Implementation and Performance Demonstration**
Adrian Hauser (Airbus, Germany); Arthur de Freitas Precht and Edoardo Caroselli (Airbus Defence and Space GmbH, Germany); Fairouz Stambouli (German Aerospace Center (DLR), Germany); Florian Wiewel and Grzegorz Adamiuk (Airbus Defence and Space GmbH, Germany); Junghyo Kim (Airbus DS GmbH & Space System, Germany); Malte Esslinger and Martin Plintovic (Airbus Defence and Space GmbH, Germany); Marwan Younis (German Aerospace Center (DLR), Germany); Max Ghiglione (European Space Agency (ESA) the Netherlands, The Netherlands); Patrick Berens (Fraunhofer FHR, Germany); Simon Wagner (Fraunhofer FHR & University of Siegen, Germany); Stefan V. Baumgartner and Sushil Kumar Joshi (German Aerospace Center (DLR), Germany))

14:40 **The SAR Processing Solutions Enabling the On-Board AI Applications**
Simone Mancon and Ruben Berteletti (Aresys Srl, Italy); Paolo Falcone (Aresys srl, Italy); Davide D'Aria and Riccardo Piantanida (Aresys, Italy)

15.00 **Autoencoder for On-Board InSAR Phase Denoising and Compression**
Lorenzo Bruno Garavelli and Luca Dell'Amore (German Aerospace Center (DLR), Germany); Nicola Gollin (German Aerospace Center, Germany); Michele Martone and Paola Rizzoli (German Aerospace Center (DLR), Germany)

15:20 **Efficient Onboard Data Compression for Future InSAR Missions**
Nicola Gollin (German Aerospace Center, Germany); Michele Martone and Joel Amao-Oliva (German Aerospace Center (DLR), Germany); Gerhard Krieger (DLR, Germany)

15:40 – 16:00 Awards Ceremony

Room: Kongresssaal 1

C.10 SAR Interferometry II
Chairs: Othmar Frey (ETH Zurich & Gamma Remote Sensing, Switzerland); Krzysztof (Chris) Kulpa (Warsaw University of Technology, Poland)

14:00 **Quality Coefficients for Interferometric Phase Linking**
Magnus Heimpel (ETH Zurich, Switzerland); Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany); Othmar Frey (ETH Zurich & Gamma Remote Sensing, Switzerland)

14:20 **Atmospheric Phase Screen Correction Under Phase Closure Constraints in Multi-Temporal Ground-Based SAR**
Emma Molière (Université Savoie Mont-Blanc, France); Argheesh Bhanot (Université Savoie Mont Blanc, France); Daniel Raucoules and Clara Levy (BRGM, France); Emmanuel Trouve (University Savoie Mont Blanc, France)

14:40 **Multitemporal InSAR Coherence Regression from Ground Range Detected SAR Data**
Francescopaolo Sica (University of the Bundeswehr Munich (UniBw), Germany); Andrea Pulella (German Aerospace Center (DLR), Germany); Michael Schmitt (University of the Bundeswehr Munich, Germany)

15:00 **Deep-Learning Based Detection of Persistent Scatterers on Sentinel-1 data**
Weili Tang (University of Napoli Parthenope, Italy & IREA-CNR, Italy); Sergio Vitale (University of Naples Parthenope, Italy); Diego Reale (CNR-IREA, Italy); Edinson Andres Solarte (National Research Council, Italy); Simona Verde (CNR-IREA, Italy); Gabriel Vasile (National Center for Scientific Research & GIPSA-lab / CNRS, France); Gianfranco Fornaro (CNR-IREA, Italy)

15:40 – 16:00 Awards Ceremony

15:20 **Bistatic Signal Penetration Geometry over Land Ice for the HARMONY Mission**
Georg Fischer (German Aerospace Center (DLR), Germany); Kristina Belinska (Technical University of Denmark (DTU Space), Denmark); Andreas Benedikter (German Aerospace Center (DLR), Germany); Konstantinos P. Papathanassiou (German Aerospace Center, Germany); Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany); Helmut Rott (ENVEO IT GmbH & University of Innsbruck, Austria); Thomas Nagler (ENVEO IT GmbH, Austria); Andreas Kääb (University of Oslo, Austria); Pau Prats-Iraola (German Aerospace Center (DLR), Germany)

15:40 – 16:00 Awards Ceremony

Room: Kongresssaal 2

D.10 Interplanetary SAR Missions
Chairs: Andreas Benedikter (German Aerospace Center (DLR), Germany); Scott Hensley (Jet Propulsion Laboratory & Radar Science and Engineering Section, USA)

14:00 **Mars Naiad: A SAR Mission Concept to Map Subsurface Ice on Mars**
Etienne Boulais, Timothy Haltigin, Sebastien Lafrance, Patrick Plourde, Christopher Servant and Émile Coté-Pelletier (Canadian Space Agency, Canada); Marilena Amoroso, Eleonora Ammannito and Raffaele Mugnuolo (Agenzia Spaziale Italiana, Italy); Claire Parfitt (European Space Agency (ESA-ESTEC), The Netherlands); David Brandão (Aurora Technology B.V. for ESA - European Space Agency, The Netherlands); Giuseppe Correale (Telespazio Belgium S.R.L. for ESA - European Space Agency, The Netherlands); Jose Manuel Sanchez Perez (European Space Agency (ESA-ESOC), Germany)

14:20 **Orbital InSAR at Saturn's Icy Moon Enceladus: System Concept and Performance**
Andreas Benedikter (German Aerospace Center (DLR), Germany); Paul A. Rosen and Stephen J. Horst (Jet Propulsion Laboratory, USA); Mark Simons (Caltech, USA); Tianlin Wang, Bryan Stiles, Ryan Park, Se-Yeon Jeon and Brian P Hawkins (Jet Propulsion Laboratory, USA); Pau Prats-Iraola (German Aerospace Center (DLR), Germany); Letizia Gambacorta (German Aerospace Center (DLR), Germany & German Aerospace Center (DLR), Germany); Marc Rodriguez-Cassola and Gerhard Krieger (DLR, Germany)

15:40 – 16:00 Awards Ceremony

14.40 **Orbit Analysis for an Interferometric SAR Mission to Enceladus**
Gianluca Montuori (University of Naples Federico II, Italy); Francesca Pelliccia (Università degli Studi di Napoli Federico II, Italy); Michele Manunta (CNR-IREA, Italy); Antonio Natale (Institute for Electromagnetic Sensing of the Environment of the National Research Council of Italy, Italy); Riccardo Lanari (IREA-CNR, Italy); Alfredo Renga (University of Naples Federico II, Italy)

15.00 **VISAR Stereo Observations Supporting the VERITAS Radar Interferometric Mapping Mission**
Scott Hensley (Jet Propulsion Laboratory & Radar Science and Engineering Section, USA); Christoph Gisinger and Tobias Koehne (German Aerospace Center (DLR), Germany); Eva Peral (Jet Propulsion Laboratory, USA)

15:20 **Modeling Radar Backscatter at Ku and S Bands from Enceladus' Ice Shell Using the Snow Microwave Radiative Transfer (SMRT) Model**
Tianlin Wang and Paul A. Rosen (Jet Propulsion Laboratory, USA); Andreas Benedikter (German Aerospace Center (DLR), Germany); Mark Simons (Caltech, USA)

15:40 – 16:00 Awards Ceremony

Room: Kongresssaal 3

E.10 Soil Moisture and Vegetation
Chairs: Nikita Basargin (German Aerospace Center (DLR) & Technical University of Munich (TUM), Germany); Jürgen Janoth (Airbus Defence and Space, Germany)

14:00 **Sensitivity Analysis of D-InSAR Soil Moisture Models: AgriROSE-L Campaign**
Henri Schauer (German Aerospace Center (DLR), Germany); Nikita Basargin (German Aerospace Center (DLR) & Technical University of Munich (TUM), Germany); Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany)

14:20 **AgriROSE-L 2025 Case Study: Soil Moisture Estimation from L-Band PolSAR Data with Physical Autoencoders**
Nikita Basargin (German Aerospace Center (DLR) & Technical University of Munich (TUM), Germany); Alberto Alonso-González (Signal Theory and Communications Department (TSC), Universitat Politécnica de Catalunya (UPC), Barcelona, Spain); Irena Hajnsek (ETH Zurich, DLR Oberpfaffenhofen, Germany)

14:40 **Dynamics of Soil Organic Carbon in Regenerative Fields: What Can Sentinel-1 Tell Us?**
F. Selin Sevimli (Istanbul Technical University & Insoil, Turkey); Elif Dinçer (Istanbul Technical University, Turkey); Esra Erten (İstanbul Technical University, Turkey)

15:40 – 16:00 Awards Ceremony

15.00 **Cross-Continental Forest Height Mapping via Bayesian Deep Learning on TanDEM-X Single-Pass InSAR Data**
Federico Ghio (German Aerospace Center (DLR), Germany & Università di Trento, Italy); Daniel Carcereri and Paola Rizzoli (German Aerospace Center (DLR), Germany); Lorenzo Bruzzone (University of Trento, Italy)

15.20 **Clustering-Based Delineation of Forest Volume from Single-Polarized SAR Tomograms**
Karima Hadj-Rabah (Paris-Lodron Universität Salzburg, Austria); Nabil Haddad (Ecole Militaire Polytechnique, Algeria); Alessandra Budillon (University of Naples Parthenope, Italy); Martin Sudmanns (Paris-Lodron Universität Salzburg, Austria); Gilda Schirinzi (Università di Napoli Parthenope, Italy)

15:40 – 16:00 Awards Ceremony

Exhibition

The Conference will be accompanied by an exhibition which is well appreciated from the conference delegates. It gives all attendeeds and exhibiting companies enough space for networking.

Exhibitors will present their latest products related to praxis in the field of SAR and Radar Technology.

We are pleased to welcome the following exhibitors:

Airbus

Gold Partner

AIRBUS

Around the globe, commercial and government customers alike rely on Airbus' leading space technology and solutions.

We offer telecommunications satellites for any mission, very-high-resolution Earth observation instruments, deep space missions, International Space Station operations and are a key contributor in bringing humans back to the moon. From the smallest electronic parts and spacecraft equipment to in-orbit delivery of satellites and associated services, reaching for the stars is our daily business.

Airbus' Earth observation satellites are at the forefront of monitoring climate change, deforestation, rising sea levels, and greenhouse gas emissions in the atmosphere. They're also vital for homeland security, coastal surveillance and disaster management. At Airbus, we not only build many of these satellites but also transform geospatial data into actionable insights to help our partners make the best decisions. Airbus' comprehensive portfolio means we are able to provide the right satellite and system for our customers – whether they need a weather-independent data source, a small constellation for high-frequency revisits, very high-resolution imagery or even all of these (and more).

www.airbus.com

HENSOLDT

Gold Partner

HENSOLDT is a leading company in the European defence and space industry.

HENSOLDT is a trusted partner of DLR, ESA and NASA and has close to 60 years of experience in space missions, with its heritage going back to the moon landing and Apollo 11. Since then, HENSOLDT has successfully participated in earth observation missions and surveys of Mercury and Jupiter's icy moons. The company's AESA (active electronically scanned array) radar subsystems are being used effectively in international earth observation missions such as TerraSAR-X, TanDEM-X, PAZ, SARah and KOMPSat-6 for more than twenty years.

www.hensoldt.net

Helsing GmbH

EUSAR 2026 - Talent Night Partner

Helsing is Europe's largest defense technology company, developing AI-enabled autonomous systems and precision solutions across land, sea, air, and space.

In the space domain, Helsing and Kongsberg are partnering to deploy a sovereign intelligence, surveillance, and targeting (IST) constellation with an interconnected communications layer for Europe by 2029. This joint venture combines Kongsberg's satellites and ground stations with Helsing's AI-driven software to fuse multiple data modalities – including synthetic aperture radar (SAR), electro-optical (EO), and radio frequency (RF)—for enhanced satellite image analysis.

www.helsing.ai

NV5 Geospatial Solutions GmbH

Silver Partner

NV5 is a global leader providing geospatial solutions, services, and software to solve mission critical challenges. From data acquisition to analytics to enterprise GIS solutions and software development, NV5 applies geospatial science to deliver end-to-end solutions and insights to mitigate risk, plan for growth, better manage resources, and advance scientific understanding.

We leverage the widest array of advanced remote sensing technologies and apply today's most sophisticated analytic AI frameworks, including proprietary deep learning, computer vision, and predictive analytic models tailored to our clients' needs. Through off the shelf and fully customized solutions, we empower our clients to enact meaningful change across enterprises, communities, and the world.

ENVI SARscape is NV5`s SAR analytics software solution that allows you to easily process and analyze SAR data for applications like surface deformation mapping or land cover/land use monitoring, while giving you the option to integrate this information with other geospatial products. This unique data analysis capability turns your data into meaningful insights and answers. Since ENVI SARscape is integrated with ENVI – the premier image processing and analysis solution – you get the added benefit of image analysis tools and SAR processing functionality in one package.

Combined with classroom and onsite training, best-in-class customer support, and custom consulting, NV5 software products provide leading edge technology to span the imagery workflow, from data ingest to exploitation and delivery. data ingest to exploitation and delivery.

www.nv5geospatialsoftware.com

MDA Space

Silver Partner

With a 55-year+ record of firsts and 450+ missions, MDA Space is a trusted space mission partner to the rapidly expanding global space industry.

Spanning communications satellites, Earth and space observation, and space exploration and infrastructure, our expertise and innovations are enabling some of the most ambitious missions happening today and making possible our customers' bold visions for tomorrow. Building the space between proven and possible, our 3,800 employees globally are pushing boundaries, tackling big challenges and imagining solutions that inspire and change the world for the better.

Building on the legendary RADARSAT heritage, MDA CHORUS™ is our next-generation Earth observation mission. A collaborative multi-sensor satellite constellation, CHORUS will provide the most extensive radar imaging capacity available on the market in one system, ranging from broad area coverage with a 700 km-wide swath to sub-metre very high resolution spotlight images. Yes, we can help you find a needle in a haystack.

www.mda.space

IMSAR

Bronze Partner

IMSAR is democratizing radar by making it more usable, affordable, and accessible than ever before.

We develop high performance multi-mode radar systems capable of all-weather imaging, monitoring, and surface search. Our radars are simple to integrate on manned and unmanned aircraft of all sizes. The radars complement FMV EO/IR and EW systems, increasing mission capability and effectiveness. Our advanced software and processing techniques make radar simple to understand. Our mission is to miniaturize powerful Synthetic Aperture Radar (SAR) technology, making it accessible for deployment on a wide range of platforms. IMSAR's family of radars have been integrated onto over 100 different airborne platforms, including Group 1-5 Unmanned Aircraft Systems (UAS), as well as various manned platforms.

www.imsar.com

IMSAR

Delivering Undeniable Value

Low-SWaP, high-performance.

IMSAR's multi-mode radar systems bring all-weather strategic capabilities to tactical platforms. These systems complement FMV EO/IR and EW payloads to complete the sensor picture and improve mission effectiveness.

Building Radar Since 2004

30+ Countries Operated In

100+ Unique Aerial Platform Installations

Visit us at WWW.IMSAR.COM

TerraLens GmbH

Bronze Partner

TerraLens, a spin-off from the German Aerospace Center (DLR), offers cutting edge solutions to exploit EO data for political and strategic decision making.

We develop professional software solutions that automate the analysis of Synthetic Aperture Radar (SAR) imagery, turning complex data into actionable insights.

Our mission is to fill the gap between scientific prototyping and operational requirements by implementing state-of-the-art algorithms into robust, user-oriented software solutions for security-relevant applications. Our automatic monitoring solutions enable non-technical end-users to easily define their specific problem, analyze large volumes of data with minimal effort, interact with the original data and the extracted insights. This enables organizations to transform EO data into informed decisions and timely actions.

www.terralens.de

TERRALENS

Satellite Intelligence to Stay Ahead of Change

Our software makes SAR image analysis fast and easy!

- On-Premise
- Data Diversity
- Easy-to-use
- Performance

Automated Image Production

Single image enhancement
Subaperture processing
Multi-sensor amplitude change detection
Coherent change detection

Automated Insights

Automatic Target Recognition

Label, train & detect on your own data
Simulation-based data augmentation

Automatic Change Detection

Wide-area monitoring
Specific use cases (construction monitoring, damage assessment, oil storage monitoring, etc.)

www.terralens.de

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Capella, an IonQ Company

EUSAR 2026 - Lanyard Partner

Capella builds trusted space systems that deliver secure, rapid, and actionable Earth intelligence to Amplify Intelligence™ for our allied partners. Powered by IonQ, we're creating the world's first quantum-enabled Earth observation network, transforming how intelligence is delivered through innovation, speed, and trust.

Capella builds trusted space systems that deliver secure, rapid, and actionable Earth intelligence to Amplify Intelligence™ for our allied partners. Powered by IonQ, we're creating the world's first quantum-enabled Earth observation network, transforming how intelligence is delivered through innovation, speed, and trust. As the first U.S. company to launch and operate a commercial SAR constellation, Capella continues to redefine what's possible in space-based intelligence. Our taskable Synthetic Aperture Radar (SAR) satellites capture precise, high-resolution imagery in any condition, day or night, through clouds, smoke, or darkness, providing mission-ready insights when and where they're needed most. We design for the realities of modern defense and intelligence: speed, sovereignty, and resilience. Capella delivers reliable, low-latency data that gives governments and global partners a decisive edge. Our vertically integrated manufacturing and automated tasking platform set the standard for trusted, low-latency SAR operations, enabling faster decisions and stronger deterrence across ISR and national security missions. Together with IonQ, we're building toward a quantum-enabled constellation that empowers allies to see, decide, and act with confidence in any environment.

www.capellaspace.com

IEEE Geoscience & Remote Sensing Society

Space I Partners

The Geoscience and Remote Sensing Society (GRSS), part of IEEE, advances geoscience and remote sensing through research, engineering, applications, and education.

With over 8,000 members across 102+ countries, it unites scientists and engineers, fostering interdisciplinary collaboration, technological innovation, knowledge exchange, and professional engagement from students to life members diverse worldwide.

www.grss-ieee.org

MetaSensing

Space I Partners

MetaSensing is a high-tech Italian SME specializing in advanced Synthetic Aperture Radar (SAR) systems for space, defense, and civil applications.

Founded in 2008 in the Netherlands within ESA's Business Incubation Centre, the company has grown into a recognized international player with operations in Italy, the Netherlands, and Singapore, serving space agencies, governments, and industrial partners across the globe.

What We Do

MetaSensing covers the entire lifecycle of a SAR system, from conceptual design to final integration, delivering radar sensors for space, airborne, and ground-based platforms. Its three flagship products reflect this breadth: StarSAR-X is a high-performance space payload designed for very high-resolution Earth observation, already selected for Italy's IRIDE-NOX programme; PhoeniX is a compact, low-power SAR built for microsatellite constellations, chosen for GalaxEye's Drishti mission; and Guardian is an airborne SAR optimized for surveillance, border control, and rapid territorial mapping. Across all domains, MetaSensing's solutions enable Earth observation, environmental monitoring, infrastructure protection, and defense operations, supported by proprietary simulation and processing tools developed in-house.

www.metasensing.com

TRUMPF Hüttinger GmbH + Co. KG

Space I Partners

TRUMPF Hüttinger
generating confidence

TRUMPF Hüttinger is a high tech company and a leading global manufacturer of DC, medium and high frequency as well as solid state microwave generators.

The Business Unit Microwave develops and manufactures microwave generators and amplifiers based on state-of-the-art solid state technology for industrial heating, plasma applications, particle accelerators and in the radar and space segment. Based on customer projects, they continuously improve their products to power levels up to 200 kW with unique reliability and overall efficiency. Their systems are running in various frequency levels starting with 80 MHz for particle accelerators and ending with 40 GHz for radar and space systems.

www.trumpf-huettinger.com

XY Sensing

Space I Partners

XY-Sensing is a technology company focused on advanced radar and microwavesensing solutions, originating as a spin-off of the Warsaw University of Technology.

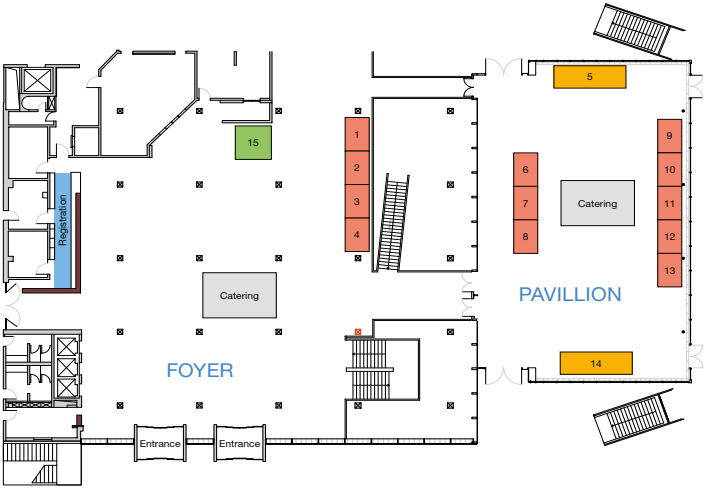
We combine scientific research expertise with practical engineering experience to deliver high-performance products for situational awareness, surveillance, and electronic warfare applications.

Our product portfolio includes imaging radars, situational awareness systems, and electronic warfare technologies. All solutions are designed to provide accurate acquisition and processing of critical data for both public and private sector clients.

Our team of engineers and scientists leverages advanced signal processing techniques and innovative design to deliver reliable, cutting-edge solutions, establishing XY-Sensing as a recognized radar technology provider on global markets.

www.xysensing.com

Exhibiton Plan



Legend

6 m² 9 m² 12 m²

Booth No.	Exhibitor
Booth No.1	
Booth No.2	
Booth No.3	XY Sensing
Booth No.4	NV5
Booth No.5	Hensold
Booth No.6	MetaSensing
Booth No.7	IEEE Geoscience & Remote Sensing Society
Booth No.8	MDA Space
Booth No.9	IMSAR
Booth No.10	TRUMPF Hüttinger GmbH + Co. KG
Booth No.11	
Booth No.12	TerraLens GmbH
Booth No.13	Capella Space
Booth No.14	Airbus Defence and Space GmbH
Booth No.15	Helsing GmbH

General Informations

EUSAR 2026 Conference Office

For detailed information please contact:
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Internet: www.vde.com

Registration fees	**Registration before 08.05.2026**	**Registration after 8.05.2026**
Non-Member	€ 1.120,00	€ 1.220,00
Member (VDE, EUREL, IEEE)*	€ 950,00	€ 1.050,00
PhD Students** (incl. conference dinner)	€ 740,00	€ 840,00
Presenting Author (max. 2 papers per author)	€ 900,00	€ 950,00
Student** (Undergraduates only! excl. conference dinner)	€ 150,00	€ 250,00
Tutorials 1, 2, 3, 4	€ 330,00	€ 330,00
Tutorial 1, 2, 3, 4 for students	€ 85,00	€ 85,00
Tutorial 5	free of charge	free of charge
Tutorial Speakers	€ 320,00	€ 320,00
Additional dinner ticket	€ 110,00	€ 110,00
Keynote Speaker	free of charge	free of charge
Exhibitor/Sponsor Free Pass	free of charge	free of charge
Press	free of charge	free of charge
Field trip to Strasbourg, 07.06.2026 (optional)	€ 35,00	€ 45,00
Field trip to Castle Schauenburg, 07.06.2026 (optional)	€ 35,00	€ 45,00
Field trip to TRUMPF Hüttinger, 12.06.2026 (optional)	free of charge	free of charge

* Participants applying for the membership fee must include a copy of their membership card to the registration form.

** A copy of the student's certification card has to be endorsed by a supervisor or head of department and must be attached to the registration form.

- The tutorial registration includes only the participation to the tutorial, the tutorial handouts, the lunch and coffee breaks on Monday, June 8th, 2026.
- In order to get advantage of the reduced fees for members, you can apply for VDE Membership.
- Presenting authors, co-authors, committee members and session chairs are not exempt from paying registration fees.

Regular Conference Registration

Member, non-member and authors' registration includes admission to all plenary and technical sessions and to the daily lunches, the poster session, the conference dinner, one copy of the electronic proceedings.

Student Registration

The student registration includes admission to all plenary and technical sessions and to the daily lunches, the poster session and one copy of the electronic proceedings. Participation at the conference dinner requires a separate registration.

Proceedings

The proceedings will be published by VDE Publishing House and made available in IEEE Xplore and indexed in Scopus and Web of Science after the conference.

Accepted papers presented at the conference will be published in the EUSAR 2026 proceedings, including digital object identifier (DOI) publication.

A few months after the conference, the papers will be available for purchase as single pdf file.

Official Language

All sessions will be held in English, only.

Time

The given times in the program schedule are according to the German Local Time (CEST)

Check at:
https://www.worldtimebuddy.com/

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Venue

EUSAR, the European Conference on Synthetic Aperture Radar, will take place at Kongresshaus Baden-Baden/Germany.

An enticing combination: glass and steel enhance the outlook creating space and the perfect ambience for ideas and creativity. Following a five-year period of renovation, the Kongresshaus Baden-Baden now presents itself with a noticeably younger, fresher, and more innovative look – a first rate conference venue at the heart of the charming cosmopolitan town of Baden-Baden. As you will see, sitting in a 'glasshouse' has probably never been so inspiring… Aesthetic, clear lines and a classic, timeless design – the Kongresshaus Baden-Baden presents an image of elegance, tradition and know-how framed with a special ambience.

© Kongresshaus Baden-Baden

The unique location on the world-famous Lichtentaler Allee, the close proximity to Baden-Baden's Culture Mile, legendary hotels such as Brenners Park-Hotel & Spa, the exclusive shopping boulevards, the soothing spas and the many fashionable bars and restaurants make the Kongresshaus the perfect stage for your presentations, conferences, exhibitions, seminars and workshops.

Kongresshaus Baden-Baden
Augustaplatz 10,
76530 Baden-Baden, Germany

EUSAR 2026 Conference Dinner

The EUSAR 2026 Conference Dinner invites all conference guests to the historical Kurhaus in Baden-Baden.

The Kurhaus Baden-Baden is a historic landmark built in the 19th century in a classical architectural style and long regarded as a cultural centerpiece of the city. Please note, that the conference dinner will observe an elegant formal dress code befitting the occasion.

The EUSAR 2026 Conference Dinner will take place at:

Kurhaus Baden-Baden
Kaiserallee 1
76530 Baden-Baden / Germany

Sponsors and Exhibitors

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