2022 International Workshop on Microwave Vision and 3D SAR Imaging (MiViSAR 2022)

Suzhou, China, 17-19 October 2022

About the Event

Microwave Vision is a new concept and theory which brings new vitality to SAR imaging and information extraction. When Microwave Vision meets SAR 3D imaging, it introduces the visual semantics and microwave scattering mechanism into the SAR 3D imaging models to enhance the imaging performance and relieve the heavy burden of coherent observations. Support by the NSFC Major Program "Research on SAR Microwave Vision Three-Dimensional Imaging Theory and Application Foundation" (No. 61991420), 2022 International Workshop on Microwave Vision and 3D SAR Imaging (MiViSAR 2022) focuses on the area of Microwave Vision and will provide an ideal forum for obtaining up-to-date information about of the state-of-the-art development of this area, exchanging ideas, identifying future trends and making contacts with the international SAR imaging and information extraction community. We look forward to an emerging global Microwave Vision society with innovation and creativity.

Topic of Interests

A. Semantic electromagnetic scattering and microwave vision

1. Semantic scattering modeling
2. Inverse scattering and information retrieval
3. Microwave vision
4. 3D SAR information retrieval

B. Vision perception in microwave imaging

1. Visual feature extraction and model interpretation
2. Visual recognition, detection, and segmentation
3. 3D vision techniques in microwave imaging
4. Zero-shot/few-shot learning in computer vision and microwave vision
5. Supervised/weakly-supervised/unsupervised learning in computer vision and microwave vision
6. Computer vision applications in microwave imaging

C. 2D/ 3D / 4D SAR imaging algorithms and technologies.

1. 2D high-resolution SAR imaging meets microwave vision
2. 3D/4D SAR imaging meets microwave vision
3. Three-dimensional microwave imaging principle study and system design
4. Applications of three-dimensional microwave imaging
5. Fusion of three-dimensional SAR imaging and other sensors and its applications

Keynotes and Invited Talks

Prof. Dr. Ya-Qiu Jin
Academician, CAS
Fudan University

Prof. Dr. Tie Jun Cui
Academician, CAS
Southeast University

Prof. Dr. Chibiao Ding
Academician, CAS
Aerospace Information Research Institute, CAS

Prof. Dr. Xuelong Li
Academician, International Eurasian Academy of Sciences
Northwestern Polytechnical University

Prof. Dr. Xiaoxiang Zhu
German Aerospace Center (DLR)
Technical University Munich (TUM)

Prof. Dr. Florence Tupin
Telecom Paris
Information Processing and Communications Laboratory

Prof. Dr. Guolong Cui
University of Electronics Science and Technology of China

Prof. Dr. Tian Jin
National University of Defense Technology

Asso. Prof. Dr. Fuxin Li
Oregon State University

Prof. Dr. Bin Fan
University of Science and Technology Beijing

Prof. Dr. Feng Xu
Fudan University
Key Lab for Information Science of Electromagnetic Waves

Prof. Dr. Qiulei Dong
Institute of Automation, CAS
National Laboratory of Pattern Recognition (NLPR)

Prof. Dr. Xiaolan Qiu
Aerospace Information Research Institute, CAS

More coming...

Submission and Important dates

>> https://mivisar2022.casconf.cn/

★ Abstract submission: 8/31/2022
★ (Optional) Camera-ready paper submission: 10/10/2022
★ Notice of acceptance: 9/15/2022
★ Online registration starting: 8/1/2022

Workshop Committee

Workshop General Chair
Chibiao Ding (Academician CAS, AIRCAS)
Ya-Qiu Jin (Academician CAS, FDU)

Co-chair
Xiaolan Qiu (Professor, AIRCAS)
Feng Xu (Professor, FDU)
Qiulei Dong (Professor, CASIA)

Technical Program Chair
Zhe Zhang (Professor, AIRCAS)