2022 3rd China International SAR Symposium (CISS 2022)

Shanghai, China 2 – 4 November 2022



IEEE Catalog Number: CFP22Y68-POD ISBN: 979-8-3503-9872-4

Copyright © 2022 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP22Y68-POD

 ISBN (Print-On-Demand):
 979-8-3503-9872-4

 ISBN (Online):
 979-8-3503-9871-7

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400

Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com



The 3rd China International SAR Symposium (CISS2022) Table of Contents

| Paper ID | Authors | Paper Title |
|----------|---|---|
| 7636 | Yachun Wan, Chaojun Sun, Hongjing Fu, Biao Zhang, Wanhua Fan | Adaptive Optimization Method of Radar Search Resources Based on Genetic Algorithm |
| 7638 | Yuchao Yang, Gang Fang | A Novel Long-time Coherent Integration Method for Highly Maneuverable Target Based on Three-Dimension Parameter Space |
| 7642 | Zhangxing Qi, Yewei Chen, Yuan Liu, Anqi Xu, Li Li, Jianpu Li | Radar signal recognition based on deep convolutional neural network in complex electromagnetic environment |
| 7653 | Wen Jiang, Zhou Ye, Yewei Chen, Zhangxing Qi, Yachun Wan | Research on Cooperative Anti-active Suppression Interference Technology of Networked Radar |
| 7654 | Yewei Chen, Wen Jiang, Gang Fang, Jianpu Li, Baoan Zhu | Research on Radar/AIS Combined Surveillance Technology |
| 7658 | Chenxi Wang,Guangcai Sun,Min Xue,Mengdao Xing | A fast Lee filter algorithm based on Fourier transform |
| 7666 | Yusong Bai, Jian Kang | A Global-to-Local Thresholding Method for Object Enhancement in SAR Images |
| 7745 | Chao Zhang, Jiarui Pei, Jinfeng Zhong, Yanghao Lin, Zhiying Yang, Siyan Guo | Attitude Control Method for Flexible Spacecraft Based on Disturbance Observer |
| 7749 | Yu Yang,Lei Liang*,Huibo Zhang,Yixin Huang,Yang Zhao,Hao Tian | Accurate Modeling and Error Analysis of High Resolution SAR Orbits |
| 7750 | Zhao Zhang,Zheyi Jiang, Hui Wang, Junyi Xu, Rui Guo* | Absolute Phase Estimation for Spaceborne InSAR Data |
| 7819 | Bo Han, Yuan Jiang, Wei Yang, Huibo Zhang, Yixin Huang, Yang Zhao | Design and Kinematics Analysis of an Airborne SAR Antenna Stabilized Platform |
| 7837 | Zishuai Ren, Rui Gao, Rui Guo | Wind Direction Retrieval of Ocean/Desert with Gaofen-3 Data |
| 7838 | Sunan Zhang, Lizhong Jiang*, Qingbo Liu, Yong Huang, Moxuan Han, Taixia Shi, Yang Chen* | Photonics-Assisted Joint Digital and Analog Self-Interference Cancellation and De-Chirping for Frequency-Modulated Continuous-Wave Radars |
| 7840 | Guanqun Sun, Fangzheng Zhang*, Jiayuan Kong, Xiaoyue Yu, Jinhu Li, Shilong Pan | Photonics-based array radar imaging using an optically injected semiconductor laser |
| 7841 | Bin Zhao,Tianyi Liu,Yun Zhang | A Multi- channel Target Detection Algorithm Based on OFDM Communication Signal |
| 7842 | Zhiquan Tang, Yicheng Jiang, Yun Zhang, Jin Wei | WiFi perception of human gestures based on multi-dimensional association method research |
| 7846 | Mingrui Yang, Tianyi Liu, Bin Zhao* | A method for improving near-field BP imaging that Uses radiation pattern compensation |
| 7847 | Yun Zhang,Xindi Wang,Chenyue Lu,Hongbo Li* | A Modified Single-Base Equivalent Imaging Algorithm for MEO Space-Missile Borne BiSAR |

| 7848 | Qiang Li, Zhengjie Jiang, Xiaoqi Zhou | Ship Detection for SAR Remote Sensing Images based on Coordinate-Enhanced Attention and Long-Short-Range Spatial Semantic Fused Context | 9: |
|------|--|--|----|
| 7849 | Tongtong Lu, Xinyi He, Shuang Wang, Guochang Shi, Bing Xie, Runjun Zhang, Haitao Jing | Attribute Scattering Center Extracting Method Based on Time-Frequency Representations | 10 |
| 7851 | Xinshuai Sun,Linghao Li, Yan Wang,Han Li,Zegang Ding,Junjie Yan | Wide-Beam Unmanned Vehicle SAR Imaging Without Inertial Navigation System | 1 |
| 7852 | Fei Huang,Zongming Liu, Tianqi Li,Yu Zhang,Guicun Li, Shuo Zhang | High precision star point displacement estimation | 1 |
| 7871 | Cheng Qian,Zelong Shao, Xiaolong Si,Hao Wang,Chao Li,Mengdao Xing | An antenna beam control method of spaceborne multi-mode imaging SAR based on real-time computing framework | 1 |
| 7874 | Yong Ding, Yudan Wu, Ping Su, Xiaotian Wu, Yingjie Yu | Design of W-band T/R module based on LTCC | 13 |
| 7889 | Wenkun Hu*, Xiumei Chen, Jiarui Pei, Han Chen, Siyan Guo | Coordinated Attitude Control of Satellite Formation Based on Directed Communication Topology | 13 |
| 7890 | Wei Hao, Kun Qin, Wenjia Liu, Yi Qin | Multi-source Pulse Coherent Accumulation Method for Distributed Aperture Coherent Radar | 1 |
| 7891 | Debin Zhang,Yanhua Liu,Chuanyou Wan,Xiaochun Li,Hua Yang,Shengjia Wang | Research on High-power Wide Frequency Range Pre-Amplifier | 1. |
| 7892 | Zhenghua Chen, Hongcheng Zeng*, Wei Yang, Jie Chen | Texture Enhancement Method of Oceanic Internal Waves in SAR Images Based on Non-local Mean Filtering and Multi-scale Retinex | 1 |
| 7893 | Ruimin Fang, Guangcai Sun, Yanbin Liu, Mengdao Xing, Zijing Zhang | SAR Real-time Imaging Pipeline Technology based on Multi-core DSP | 1 |
| 7894 | Di Zhao,Yuchuan Xu,Xuezhen Wang,Yusheng Hou,Nan Li,Junli Chen | In-Orbit Calibration Method of Beam Pointing Consistency for Distributed InSAR Satellites | 1 |
| 7895 | Yanbing Ma, Xiaochun Xiang, Tianle Zhang, Jinhua Zhang, Xiaolei Li, Shangrong Ouyang | SAR Antenna Beam Widening with Phase-only Weighting Based on CPSO Algorithm | 1 |
| 7896 | Tianle Zhang,Xiaochun Xiang,Zhi Cui,Xiaolong Shao,Shuangrong Liu,Shangrong Ouyang | Dual-frequency and Dual-circular-polarization Shared-aperture Microstrip Phased Array | 1 |
| 7897 | Yuan Chen, Xiaowei Shen, Jing Wang, Xiangyu Du, Hongying Zhang | Design and Application of Ku-band Broadband LNA in Satellite Payload | 1 |
| 7898 | Jing Wen,Qiliang Zhang,Shuqing Feng,Qingkun Gong,Wei Hua,Shichao Zheng | A Study on Adaptive Range Digital Beam-Forming Method for Ka-band Automotive SAR | 1 |
| 7899 | Yongrui Li, Liang Chen, Fang Liu, Tingting Qiao, Ming Xu, Yizhuang Xie | Design of High-performance Super-resolution Spaceborne SAR Real-time Imaging Chip | 1 |
| 7900 | Xiaowei Shen,Yuan Chen,Shenghao Li,Liang Zhang | A 50W X-band GaN Solid State Power Amplifier for Space-borne Applications | 1 |
| 7901 | Xiangyu Du,Ziqi shao, Yonggang Lei,Yuan Chen, Jun Wei, Ye Xie | Design of a Novel Stacked Ku-band SSPA for SAR System | 1 |
| 7903 | Haiguo Piao, Lipeng Bai, Hengchao Ming, Yongkang Wang, Cheng Cao | SAR Power Controller Design Research Based on PID Neural Network Artificial Intelligence and CPSO Algorithm | 1 |
| 7904 | Xizhi Chen,Hongxiang Zhang,Di Zhao,Yusheng Hou,Nan Li,Junli Chen | A Design Method of DSM Swath and Next Overlap Based on Distributed InSAR Satellites | 1 |
| 7905 | Hengkang Qiu, Jifeng Han, Xianhua Wu, Qianlin You, Hong Chu, Baofa Su, Lisheng Zhang, Kaijian Chen | Overview of Dual Bus Solar Array Design for SAR Satellite | 1 |

| 7906 | Guo Luo, Jianzhi Liu,Tong Yang, Yinghua Dou, Naiming Chen | A Constant Current and Constant Voltage Charging Circuit through MPPT Method and Its Stability Analysis |
|------|--|--|
| 7907 | Heng Zhang, Shangrong Ouyang, Lina Zhang, Yuhuan Zhang, Yi Huang | Analysis and Design of Millimeter Wave Series-Fed Microstrip Array Antenna |
| 7908 | Siyuan Du, Feng Zhao,Xiaofei Chen,Jiakai He,Xiong Chen,Lifei Jiang | A New Layout of Wide Swath Synthetic Aperture Array |
| 7909 | Yuhuan Zhang, Shangrong Ouyang, Yuchen Zhang, Xing Su, Quanjin Kuang | Design of High Isolation Waveguide Switch Component in Ka Band for SAR System |
| 7910 | Yuhuan Zhang, Xinzhong Zhu, Yuchen Zhang, Xiaochun Xiang, Tianle Zhang | Design of Thinned Arrays Based on Genetic Algorithm |
| 7911 | Xinyang Pu, Hecheng Jia, Yutong Qian, Feng Xu | Orientation Estimation for Airplane Targets in SAR Images Based on Keypoint Detection |
| 7912 | Jun Gu, Fei Dai,Qiping Chen, Dandan Gu, Yi Liao, Biao Wang | Research on RCS calculation and weight loss method of radar angle reflector |
| 7913 | Keyong Ge, Chuanzhou Shi, Lijuan Liu, Yang Zhao, Chao Wang | Innovative Under- and Overvoltage Protection Technology for Aerospace SAR Power Supply |
| 7914 | Yong Zhao, Huifeng Shang, Ning Hua, Shihao Ma, Jie Dai | A Ku Band Dual-mode Solid State Power Amplifier |
| 7915 | Xin Wang, Bin Li, Lijie Sun, Xianglei Shi, Xunchun Wang | Research on Photovoltaic Cells for Laser Light on wireless energy transmission |
| 7916 | Hongying Zhang, Hanbin Luo, Yi Zhao, Jing Wang, Jiajie Zhu, Jianhua Xu | Development of a Miniaturized Ku-band Dual Polarization Array Transmitting Module |
| 7917 | Zhongyu Wang,Yingnan Yuan,Yulong Fu,Jinliang Li,Rui Yang,Hui Wang | Design of Power Supply and Distribution System for High Power KaSAR Satellite |
| 7918 | Zhongyu Wang,Sili Wu,Dong Yang,Li Ji,Boxiang Zhang,Hui Wang | An On-orbit Reconfiguration Method for Spaceborne SAR Active Components |
| 7919 | Ruigang Zhang,Hui Wang,Tao Ni | An Improved Large Squint Imaging Algorithm for Millimeter Band Stripe Mode |
| 7920 | Jun Du, Dandan Gu, Zhenyu Xu, Xiaying Meng, Peiying Shi, Yi Liao | High-Resolution Range Profile Target Recognition based on Deep Kernel Extreme Learning Machine |
| 7921 | He Wang, Yan Jiang, Hongcheng Zeng, Wei Yang, Jie Chen, Zhirong Men | A Modified PGA Method for Long Time Fluctuating Target Refocusing in SAR Image |
| 7922 | Guodong Song,Junwei Shi,Hang Lan,Cichen Duan,Xiang Gao,Lizheng Zhang | Wideband Multi-wavelength True Time Delay Component with High Integration |
| 7923 | Rui Pan, Lei Xing, Xubo Wang, Qian Sun, Fei Peng | Comparison of Scene Reconstruction Methods Based on Hector SLAM |
| 7924 | Lei Xing, Fei Peng, Rui Pan | Research on the Method of Environmental Perception Based on Millimeter Wave Radar |
| 7925 | Hang Lan, Yan Luo, Guodong Song, Qi Qiao, Jing Wang, Wei Shen | Design of X-band 4-channel T/R module with High power and High efficiency |
| 7926 | Muhui Cai,Sili Wu,Zhiqiang Sun,Wei Hua,Yushan Guo,Ying Sun | Real-time Beam Optimization of Millimeter-Wave Array Radar Based on Multi- FPGA Pipeline Architecture |
| 7927 | Jiongyuan Zhou, Yu Tian, Yunchi Shi, Chunping Li, Yanpeng Wang | Design of Inter-satellite Measurement System for Distributed SAR Application |
| 7928 | Yi Huang, Heng Zhang, Linglong Xue, Tianle Zhang, Yaodan Zhang | Design of Dual-Polarized Shared-Aperture Waveguide Slot Antenna Array |
| 7929 | Yaodan Zhang, Yi Huang, Zhi Cui, Tianle Zhang, Yu Ma, Heng Zhang | Design of Broadband Slotted Ridge Waveguide Antenna for Lightweight SAR |
| 7930 | Xiaoyan Ma, Pengfei Liu, Yifan Guo, Dandi Lao, Yiwei Lv, Zhengkang Feng | An Improved Multi-model Particle Filter Track-Before-Detect Algorithm |
| | Jianlai Chen, Xiangxu Cao | SAR Motion Parameter Estimation based on Deep Learning |

| 7932 | YuSheng Hou, Nan Li, JunJian Wen, Biao Gong, Chonghua Chen, Junli Chen | A Time Synchronization Residual Error Compensation Algorithm for Spaceborne Distributed InSAR |
|------|--|--|
| 7933 | Rong Shen, Shunjun Wei, Zichen Zhou, Mou Wang | High Resolution SAR Tomography 3-D Imaging via Sparse Recovery Deep Learning Network |
| 7934 | Siyuan Du, Feng Zhao, Jiakai He, Xiong Chen, Lifei Jiang | A High-resolution Image Reconstruction Technology Based on G-matrix and Fourier Transform |
| 7935 | Xiaojing Fan, Yong Zhao, Yabin Li, Na Wang, HongYing Zhang | Thermal Design and Welding Process of a Radar Double-sided Module |
| 7936 | Hao Zhang,Shunjun Wei, Mou Wang,Jun Shi | An Interference Suppression Method for Spaceborne SAR Image via Space- channel Attention Network |
| 7937 | Haonan Wang,Baolong Wu,Yanni Wu,Shuangxi Zhang,Shaohui Mei,Yanyang Liu | An Improved YOLO-v3 Algorithm for Ship Detection in SAR Image Based on K-means++ with Focal Loss |
| 7938 | Guo Luo,Tong Yang, Jianzhi Liu, Gaofeng Liu, Pengfei Cui | The Design and Implementation of Plug and Play MPPT Power Control and Distributor for Aerospace |
| 7939 | Joselito E. Araújo, Anderson A. Borba, Alejandro C. Frery | FDDPHASE: A Package for Statistical Analysis of the Phase from Polarimetric Data |
| 7940 | Dachen Peng, Defeng Gu, Kai Shao | Two High-precision Baseline Determination Strategies for Long Baseline Satellite Formation and Their Comparative Analysis |
| 7941 | Ruifeng Lu,Junjian Wen, Di Zhao,Yanyang Liu,Yusheng Hou,Chonghua Chen | Analysis of Influencing factors of Distributed Satellite InSAR Height- Measurement Accuracy based on Positioning Equation |
| 7942 | Han Wu,Fei Han | Research on Path Planning for Satellite Formation Configuration Changes |
| 7943 | Jin Yang, Xuwang Hou, Naiming Chen, Juan Tian, Haifeng Chen, Yiming Zhang | Application and Verification of Ultra-high Rate Battery Packs for Micro-nano SAR Satellites |
| 7944 | Qian Sun,Fei Peng,Huiliang Liu,Lei Xing,Rui Pan,Fan Jiang | Research on the Evaluation Mechanism of Spaceborne SAR system to Ground- Based Radar Co-Frequency Interference |
| 7945 | Xin Shi, Jinsong Zhang, Mengdao Xing, Guangcai Sun | ISAGAN: A High-Fidelity Full-Azimuth SAR Image Generation Method |
| 7946 | Junjie Luo, Yang Lv, Jiao Guo* | Multi-temporal PolSAR Image Classification Using F-SAE-CNN |
| 7947 | Zhong Hu, Qi Qiao, Junwei Shi, Ziqi Shao, Xiaokun Bai, Yafei Shen | A C-band Pulse Power Amplifier for Radar Transmitter |
| 7949 | Yiheng Guo,Di Zhang,Qian Li,Peng Zhang,Yi Liang | FIAA-Based Super-Resolution Forward-Looking Radar Imaging Method for Maneuvering Platforms |
| 7950 | Peishuang Ni, Jialian Sheng, Lizhong Jiang, Gang Xu | Sequential ISAR Images Classification Using CNN-Bi-LSTM Method |
| 7951 | Shuguang Li, Kaisi Guo, Zhenbin Lv, Zhenhua Kuai, Wenbin Lu, Shuhai Shi, Xi Ye | Design and Analysis of ISAR System based on Microwave Photonic Generated Signal and Electronic Receiving Link |
| 7952 | Zhilong Ren,Ke Du,Chenghu Mou,Yi Liang | A Heterogeneous Image Fusion Method Based on Multi-directional Gradient Filtering |
| 7953 | Yongqi Wang, Hui Wang, Yuxuan Bie | An Improved SAR Image Speckle Reduction Algorithm Based on 3D Block Matching |
| 7955 | Nan Li, Yusheng Hou, Lei Xing, Xingbin Ye, Di Zhao, Junli Chen | An Optimization Method for Distributed InSAR Satellite Formation Configuration |
| 7956 | Bangjie Zhang, Yanyang Liu, Gang Xu | MTRC Compensation and Sparse Aperture ISAR Imaging Based on Sparse Bayesian Learning |

| 7957 | Hao Pei, Haolin Li, Hang Huang, Xincao Li, Gang Xu | Vehicle Detection in High-resolution SAR Image Using Saliency Visual Attention Method | 4 |
|------|--|---|---|
| 7959 | Gege Tian, Chenglu Zhao,Jingxiao Li,Jing Luo, Jiayi Zhang, Dongyu Li | The DOA Estimation Method based on Improved SSMUSIC Algorithm | 4 |
| 7960 | Gege Tian, Chenglu Zhao,Jing Luo, Jingxiao Li,Jiayi Zhang, Guanghui Xu | A Detection Method for Dense and Weak Targets in Complex Background | 4 |
| 7961 | Tingyao Xie,Feng Feng,Yiwei Lv,Kaisi Guo,Lele Zhu,Shangrong Ouyang | Moving Object Detection Algorithm Based on Adaptive Clustering | 4 |
| 7962 | Kaisi Guo, Kaili Qin, Feng Feng, Tingyao Xie, Xi Ye | A Low Altitude Small Target Detection Method based on Feature Clutter Map | 4 |
| 7963 | Qihang Zhou, Hui Xu,Zhicheng Wang, Zhijun Zhang,Xian Zhang | Radar Sea Clutter Feature Classification Based on Machine Learning | 4 |
| 7964 | Jiongyuan Zhou, Jin Wang, Yunchi Shi, Yu Tian, Jie Chen | Optimal Design of Multiple Antennas Based on Maximum Rate and Antenna Selection Algorithm | |
| 7965 | Junchao Song, Yiyuan Xu, Luwei Liao, Jun Cheng, You Xiong, Xin Cheng | Study on Output Impedance Characteristics of S3R and S4R Topological based on SAR Satellite Platform Power Controller | 4 |
| 7966 | Hongying Zhang, Xiaojing Fan, Hanbin Luo, Yuan Chen, Long Huang | Design of Spaceborne Ku-band Four-channel Delay Module | |
| 7967 | Junwei Shi, Guodong Song, Zhong Hu, Xiang Gao, Jing Tan, Lizheng Zhang | Design of a K-Band Integrated Tile-type T/R Module | |
| 7968 | Qi Qiao, Cichen Duan, Yabin Li, Zhong Hu, Hang Lan | Self-excitation Debugging of the Ka-band Multichannel T/R Module | |
| 7969 | Yafei Shen, Zhong Hu, Yuying Wu, Shihao Ma, Xiaojing Fan, Kai Chen | A Ka-band Transition from E-plane Waveguide to H-plane Waveguide | |
| 7970 | Yeke Tang,Jinyi Zhang,Zhihang Chen,ZhaoYang Zeng,Sili Wu,Hui Wang | InSAR Complex Image Registration based on Correlation Function Method | |
| 7971 | Mengjie Jiang, Hongjun Wei, Chuheng Tang, Hui Zhang, Gang Xu* | Terrain Observation Using Ground-based Interferometric Millimeter-wave SAR Imaging | |
| 7973 | Qiang Li, Lipeng Feng, Hui Wang, Shichao Zheng, Sili Wu, Zhiqiang Sun | Research on Sliding Spotlight Imaging Algorithm | |
| 7975 | Jiazheng Sun,Hui Wang,ShiChao Zheng,ZhaoYang Zeng,Xiang Chen,Sili Wu | Imaging Method of Spaceborne TOPS SAR Based on ECS and SPECAN | |
| 7976 | Dong Yang, Huixin Zheng, Boxiang Zhang, Li Ji, Zhongyu Wang | Orbit Design and Multi-constraint Analysis of Ocean Altimetry Satellite | |
| 7977 | Yiran Zhang, Yuanhao Li, Zhiyang Chen, Kuan Lin, Cheng Hu | Potential of Topographic Measurement by Time-Series Loose Distributed SAR Interferometry | |
| 7978 | Yali Wang,Daojin Chen,Bingqi Zhu,Yi Jian,Yi Liang | A SAR Ship Target Detection Method Based on the Analysis of Region Stability Characteristics | |
| 7979 | Jinyi Zhang, Shichao Zheng, Yeke Tang, Sili Wu, Zhihang Chen, Hui Wang | Error Analysis of the Two-pass Approach in Spaceborne D-InSAR | |
| 7980 | Zhipeng Song, Sili Wu,Jiahe Mei, Qiang Zhao, Shichao Zheng, Hui Wang | A Broadband Waveguide Slot Array | |
| 7981 | Jiahe Mei,Shichao Zheng, Sili Wu,Zhipeng Song, Xiang Chen, Lipeng Fu | Ka and X Dual-band Microstrip Phased Array Antenna Design | |
| 7983 | Xiaolong Si, Rufei Ge, Cheng Qian,Lichun Wang,Jian Wang,Chao Li | Design and Implementation of Space-borne SAR Mission Planning System Based on STK | |
| 7984 | Zhihang Chen, Hui Wang, Wei Qu | Variable Sensing of Large Phased Antenna Array for Spaceborne SAR | |

| 7985 | Hao Chen, Chanjuan Zhao, Chunlei Zhao, Guanghui Xu, Ming Fang | LSS-target Intelligent Detection Method Suitable for Complex Geographical Environment |
|------|---|---|
| 7986 | Ying Sun,Sili Wu,Xiang Chen,Hui Wang,Muhui Cai | An Improved Space-Time Coding Scheme for FMCW MIMO-SAR |
| 7987 | Weijing Yang,Liangmei Sheng,Xiangfei Guo,Junliang Zhang,Sheng Sui,Jingying Xie | Application Research and Prospect of Lithium Carbon Fluoride Primary Battery in Aerospace Field |
| 7988 | Yan Luo, Hang Lan, Cichen Duan, Jiyang Shang,Lizheng Zhang, Kai Chen | 16-element Conformal Sub-array Assembly and Its Impact on Performance |
| 7989 | Mingxi Xiao,Hui Wang,Sili Wu,Yuehan Gu,Shichao Zheng | Interferometric SAR Phase Unwrapping Method Based on Improved Markov Energy Model |
| 7990 | Qifeng Xu,Yongkang Wang,Cheng Cao,Haiguo Piao,You Xiong,Jiahao Shi | Research on Integrated Technology for Li-ion Battery Management of SAR Satellites |
| 7991 | Zelong Shao, Cheng Qian, Weiwei Ji, Xianwen Xu, Chao Li, Shangrong Ouyang | Amplitude and Phase Error Estimation and Compensation Technology for Spaceborne SAR |
| 7992 | Shujiang Liu, Han Li, Pengnan Zheng, Zegang Ding, Qingping Meng, Dayu Chen | An Effective TOPS SAR Imaging Algorithm Based on GF-3 Data |
| 7993 | Haojuan Yuan, Heng Xu, Shoujiang Yu, Lixian Li, Hongjing Fu,Dongyu Li | Design of Dual Band Phased Array Radar System |
| 7995 | Xu Zhang, Yijin Chuai, Chengcheng Zhu, Jiayao Jin, Chen Zhang | A General Purpose SAR Satellite Power Distribution Test System |
| 7996 | Guoying Dong,Mingqi Li,Tengfei Li,Jiatao Lin,Yan Zhang | Self-calibration Method for Amplitude and Phase Error of MIMO System |
| 7997 | Cichen Duan, Yabin Li, Qi Qiao, Hang Lan, Guodong Song, Jiajie Zhu | Design of A High Efficiency S-band Transceiver Module for Spaceborne Phased- array Antenna |
| 7998 | Jiaoyang Su, Yaqi Liu, Hulin Lu, Weiwei Wei, Chaowei Fu, Jinqiang Zhang | Research on High Precision Phase Real-time Calibration Technology Based on INSAR Altimeter System |
| 7999 | Boxiang Zhang,Wenjing Bao,Dong Yang,Yingnan Yuan,Zhongyu Wang, Rui Yang | A Method for Designing Orbits of Tomographic SAR Satellites |
| 8000 | Jiayao Jin,Chengcheng Zhu,Xiaochun Li,Xu Zhang,Gaofeng Liu | Reliability Design and Analysis of SAR Platform Load Power Supply |
| 8001 | Jian Chen, Xinyao Xia, Xingyu Zhang, Tong Liu, Jingying Xie, Ke Wang | Mechanism of Mechanics Evolution of Li-ion Battery Separator |
| 8002 | Bei Li, Yanping Wang, Jinqi Wang, Daqing Zhang, Zhewei Cao, Jun Cao | Research on Continuously Tunable Optical Delay Line based on Cascaded Micro-ring Resonators |
| 8004 | Li Ji, Yingnan Yuan, Zhongyu Wang, Dong Yang, Zhihang Chen,Hui Wang | Dynamic Analysis and Optimization of Deployment Mechanism of Long- baseline Millimeter-wave Antenna |
| 8006 | Xuewen Yu, Wenbin Huang, Luofeng Han, Chao Lu, Tong Liu, Kangwu Zhu | Development Status of M5 Servo Electric Propulsion System for Precision Control of SAR Satellites |
| 8007 | Yuanhong Gao, Fei Zou, Wei Yang, Jie Chen | The Reconstruction Method of SAR Image Ambiguous Area based on Deep Learning |
| 8008 | Yang Gao, Wei Hua, Zhiqiang Sun, Hongnan Tian, Muhui Cai, Yushan Guo | Object Detection for SAR Ship Images Based on YOLOv5 Deployed On Jetson Agx Xavier |
| 8009 | Minghan Zhao, Junshan Chen, Guijun | Design of High-precision Airborne SAR Stabilization Platform Based on Active Disturbance Rejection Technology |
| 8010 | Zhao, Lu Zhou, Xiajing Li Zhuoqun Wang, Yajun Li, Yanbin Li, Jianhua Zhao, Yong Huang, Sheng Shao | Research on Compound Scattering Modeling and Imaging Methods of Sea Surface Ship Target for GEO-UAV BiSAR |

| 8011 | Zhicheng Wang,Si Chen,Mengyang Shi,Hui Xu,Zhijun Zhang,Yesheng Gao* | Feature Enhancement Kernel Dictionary Learning for Radar Target Recognition | 6 |
|------|---|---|-----|
| 8012 | Pengfei Cui, Naiming Chen, Fan Yang, Wanteng Chai, Guo Luo, Xinyu Chen, Miao Li, Qiang Li | Research on Short Circuit Protection Based on High Voltage Half Bridge Topology | 6 |
| 8013 | Shaojie Li, Yanyang Liu, Shuangxi Zhang, Shaohui Mei | Deep-Learning Method for Channel-Calibration of Multichannel in Azimuth SAR System | 6 |
| 8014 | Heng Li,Libin Xin, Wenjie Zhang,Bin Shu,Jijun Ma | Research on Digital Modeling of Spacecraft Power System Based on Modelica | 6 |
| 8015 | Weikun Cai,Shanshan Wei,Tingting Zhang,Shuhui Chen,Zhenzhen Hu | Study on the Electromagnetic Interference of SAR System to Wireless Power Transfer System | 6 |
| 8016 | Hongnan Tian, Wei Hua, Yang Gao,Zhiqiang Sun, Muhui Cai, Yushan Guo | Research on Real-time Imaging Method of Airborne SAR Based on Embedded GPU | 6 |
| 8018 | Xianwei Wang, David M. Holland | Rapid Glacier-Ocean Interaction Observed by Terrestrial Radar Interferometry | 6 |
| 8019 | Chaoxiang Xie,Liangmei Sheng,Hai Dai,Shiyin Lv,Guorui Li | Study on the High Voltage and High Power Lithium ion Battery | 6 |
| 8020 | Junhao Liu,Qian Chen,Chengxin Zheng,Ping Wang,Minghui Wan | High-resolution detection of near-distance imaging with vortex electromagnetic waves | 6 |
| 8022 | Xinyi Li,Chunsheng Li | Influence of Frequency Source Stability on 2D Resolution of Spaceborne Synthetic Aperture Radar | 6 |
| 8023 | Yue Ding,Zhirong Men,Wei Yang | Analysis of the Influence of SAR Speed Error on Doppler Parameters | 7 |
| 8025 | Zhaokai Pan,Shuo Wang,Zhiqiang Sun,Yue Pang,Hui Wang | Space-borne Millimeter Wave SAR Integration Test Method | 7 |
| 8027 | Zhaoyang Zeng,Hui Wang,Ruigang Zhang,Xiang Chen,Shichao Zheng,Sili Wu | Error Analysis of Angle Inverse RCS for Millimeter Wave SAR Radiometric Calibration | 1 |
| 8028 | Shuo Wang, Zhaokai Pan, Zhiqiang Sun, Yue Pang | Design and Experiment of Airborne Video SAR Beam Steering | 7 |
| 8029 | Yuehan Gu, Hui Wang, Yuxuan Bie, Rui Yang, Yujia Li | Research on Image Registration of Different Wavebands Based on SIFT Algorithm | 1 |
| 8030 | Yuxuan Bie, Rui Yang, Xiaoman Zhang, Yujia Li, Yuehan Gu | Research on Compression Method of Yolov5 Model based on Channel pruning | 1 |
| 8031 | Yanyang Liu, Lei Cui, Zhiming Liu, Haitao Wang, Bingliang Zhang, Tao Li | A Novel Absolute Interferometric Phase Determination Algorithm for InSAR Processing | |
| 8033 | Yulong Fu, Hui Wang, Zhiqiang Sun, Sili Wu, Zhongyu Wang, Shichao Zheng | Analysis for the Effect of Wavefront Aberrations on the Performance of Distributed SAR Microwave Photonic Link | 1 |
| 8034 | Hui Yu,Yanyang Liu, Haitao Wang,Lei Cui,Ruifeng Lu,Xiangdong Li | Integrated System of Side-looking InSAR Altimeter and Nadir-looking Altimeter Based on Signal Coding | |
| 8035 | Sili Wu,Mingxi Xiao,Jinyi Zhang,Qiang Zhao,Shichao Zheng,Hui Wang | Dual-Frequency Along Track Interferometry | , |
| 8036 | Sili Wu, Ying Sun,Zhihang Chen,Qiang Zhao,Shichao Zheng,Hui Wang | A Wide-Swath Altimeter Calibration Method based on Beam Scanning | , |
| 8037 | Jianing Zhou,Zheng Li,Wei Yang,Fei Zou, Hui Wang | Domain Knowledge Based Small Sample Ship Target Detection Method | , |
| 8038 | Lei Hu, Jie Chen | Ship Target Detection in SAR Images Based on FPGA | , |
| 8039 | Wei Li, Sili Wu, Zhaokai Pan | A New Test Method on the Conversion Loss of Mixer | _ ′ |
| 8040 | Xiang Chen,Shichao Zheng,Zhaoyang Zeng,Hui Wang,Zhiqiang Sun,Zhaokai Pan | Adaptive Wave Position Design Method for Spaceborne SAR | , |
| 8041 | Yingnan Yuan, Li Ji, Zhongyu Wang, Dong Yang, Boxiang Zhang, Hui Wang | Design of a High Precision Spaceborne Millimeter Wave SAR Corner Reflector | |
| 8042 | Lipeng Fu, Hui Wang, Shichao Zheng, Sheng Ye, Jiahe Mei, Xiang Chen | Research on Internal Calibration Method for SAR with T-R Community Antenna System | , |
| | Tian Zeng, Zheng Li, Wei Yang, Zhirong | Influence of Beam Stepping Control and Pointing Deviation on Image Quality of | 1 |