

📌 Program for 2026 IEEE International Applied Computational Electromagnetics Society Symposium (ACES-China)

Time (Shanghai)	Room A	Room B	Room C	Room D	Poster & Exhibition Area
Saturday, August 22					
08:30-09:00	<u>Opening Ceremony</u>				
09:00-09:40	<u>Keynote 1: Information Metamaterials and Large Electromagnetic Models - Tie Jun Cui</u>				
09:40-10:20	<u>Keynote 2: Perspective on Computational Electromagnetics Driven by Quantum Computing and Artificial Intelligence - Erping Li</u>				
10:20-10:50	<u>Break</u>				
10:50-11:30	<u>Keynote 3: Electromagnetic Computation: Advancements and Challenge - Jun Hu</u>				
11:30-12:10	<u>Keynote 4: title - Fushun Nian (tentative)</u>				
12:10-13:30	<u>Lunch</u>				
13:30-15:30	S01: <u>AI for Antennas & Devices</u>	S02: <u>Multiphysics CEM and SIPI</u>	S03: <u>Meta for Communication and Sensing</u>	S04: <u>Advanced Numerical Methods in EM</u>	P01: <u>Student Paper Contest / Poster Session 1</u>
15:30-15:45	<u>Break</u>				
15:45-17:45	S05: <u>Antenna Design and Optimization</u>	S06: <u>Multiphysical Metamaterial & Surface</u>	T01: <u>2026 Singa-Singapore Scientific Forum (Jointly Organized by ACES-China)</u>	S07: <u>mmWave/THz Materials and Devices</u>	
Sunday, August 23					
08:00-10:00	S08: <u>RF Devices and Microsystems</u>	S09: <u>CEM and AI</u>	S10: <u>Antennas and Sensors for WBAN/IoT</u>	S11: <u>Meta for Wave Manipulation</u>	
10:00-10:15	<u>Break</u>				
10:15-12:15	S12: <u>Reconfigurable Meta & Antenna</u>	S13: <u>Singular Meta-Optics</u>	T02: <u>Electromagnetic Education</u>	S14: <u>Meta for Absorption and Shielding</u>	P02: <u>Poster Session 2</u>
12:15-13:30	<u>Lunch</u>				
13:30-15:30	S15: <u>Multiphysics Modeling and Integration</u>	S16: <u>AI for EM Design</u>	S17: <u>AI for RF Inverse Design</u>	S18: <u>Microwave/mmWave Arrays</u>	P03: <u>Poster Session 3</u>
15:30-15:45	<u>Break</u>				
15:45-17:45	S19: <u>mmWave/THz Measurement</u>	S20: <u>Advanced EM Simulation and Design</u>	S21: <u>Large-Scale Array Modeling</u>	S22: <u>RF Harvesting and SWIPT</u>	
18:30-20:30	<u>Banquet</u>				

Time (Shanghai)	Room A	Room B	Room C	Room D	Poster & Exhibition Area
Monday, August 24					
08:00-10:00	S23: <i>Heterogeneous RF Packaging</i>	S24: <i>RF Energy Applications</i>	S25: <i>Microwave Absorbers and Low-RCS Antennas</i>	S26: <i>AI Enhanced RF Simulations</i>	
10:00-10:15	<i>Break</i>				
10:15-12:15	S27: <i>PA and Linearization</i>	S28: <i>Radiation and Scattering Simulation</i>	S29: <i>Microwave and Metamaterial Devices</i>	S30: <i>Nonlinear Circuits and Antennas</i>	P04: <i>Poster Session 4</i>
12:15-13:30	<i>Lunch</i>				
13:30-15:30	S31: <i>Implantable Wireless Charging and Monitoring</i>	S32: <i>mmWave Circuits and Arrays</i>	S33: <i>EM Monitoring and Diagnosis</i>	S34: <i>ISL Circuits and Systems</i>	P05: <i>Poster Session 5</i>
15:30-15:45	<i>Break</i>				
15:45-17:45	S35: <i>Intelligent EM Sensing</i>	S36: <i>Microwave Imaging</i>	S37: <i>Antenna and Microwave Devices</i>	S38: <i>mmWave/THz Sources</i>	

Saturday, August 22

Saturday, August 22 8:30 - 9:00

Opening Ceremony

Room: Main Venue (Level 3)

Saturday, August 22 9:00 - 9:40

Keynote 1: Information Metamaterials and Large Electromagnetic Models - Tie Jun Cui

Room: Main Venue (Level 3)

Saturday, August 22 9:40 - 10:20

Keynote 2: Perspective on Computational Electromagnetics Driven by Quantum Computing and Artificial Intelligence - Erping Li

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Saturday, August 22 10:50 - 11:30

Keynote 3: Electromagnetic Computation: Advancements and Challenge - Jun Hu

Room: Main Venue (Level 3)

Saturday, August 22 11:30 - 12:10

Keynote 4: title - Fushun Nian (tentative)

Room: Main Venue (Level 3)

Saturday, August 22 13:30 - 15:30

P01: Student Paper Contest / Poster Session 1

Room: Poster & Exhibition Area

P01.1 A Waveform-Independent High-Resolution Range Profile Deception Method Based on True Time Delay

Xingjian Shen, Fengyuan Guo and Yonggeng Zhu (Nanjing University of Science and Technology, China); Mengmeng Li (Nanjing University of Science and Technology & Communication Engineering, China); Jihong Gu and Dazhi Ding (Nanjing University of Science and Technology, China)

P01.2 A Compact Circularly Polarized Antenna with Half Metallic Bezel for Wearable Smartwatch Direct-to-Satellite Communications

Yunjiao Tang and Libin Sun (Shanghai Jiaotong University, China); Lin-Sheng Wu and Gaobiao Xiao (Shanghai Jiao Tong University, China)

P01.3 A Reconfigurable Metasurface Based on Back-Loaded Network for Wideband and Wide-Angle Scattering Control

Chengwang Zhang, Feng Zhao, Yuchen Yin, Ke Chen, Tian Jiang, Junming Zhao and Yijun Feng (Nanjing University, China)

P01.4 A High-Gain and High-Efficiency THz Phased Array Antenna with TGV-Enabled Back Cavity

Gang Zhuang (University of Electronic Science and Technology of China, China)

P01.5 A 3-D Printed Ultra-Wideband Circularly Polarized Complementary Source Antenna Array

Zhengrong Lu, Yu Jian Li and Jun Hong Wang (Beijing Jiaotong University, China)

P01.6 Exploiting a Switched GaN Class-E Power Amplifier for Efficient High-Power Plasma Generation

Shiyang Luo, Xinqin Shen, Ziyao Wei, Xiaozhou Zhou and Hao Zhang (Northwestern Polytechnical University, China); Junjun Zhao (Jiangsu Shenzhou Semiconductor Technology Co. Ltd, China)

P01.7 Single-Port Simultaneous and Independent Full-Range Amplitude-Phase Modulator for High-Precision RIS Application

Meicheng Liu, Yuefeng Hou and Kaixue Ma (Tianjin University, China)

P01.8 Ultra-Low Parasitic Inductance Hybrid Packaging for SiC Devices Using Liquid Crystal Polymer (LCP)

Shaotong Yang and Yan Li (China Jiliang University, China); Er-Ping Li (Zhejiang University, China)

P01.9 A Low Phase Noise PLL Based on Self-Injection Locking Technique and Mixer-Based Dual-Feedback Architecture

Ding Zhengkai, Weiwei Zhou and Yongrong Shi (Nanjing University of Aeronautics and Astronautics, China)

P01.10 A Generalized Modeling of Arbitrary Polarization Reconfigurable Metasurfaces Based on Microwave Network

Wanwan Cao, Huidong Li, Jun Yan Dai, Qun Yan Zhou, Shuo Liu and Qiang Cheng (Southeast University, China)

P01.11 Accelerating Wideband Frequency Sweeps via Learned History-Subspace Warm Starts

Haoran Sun, Maokun Li, Fan Yang and Shenheng Xu (Tsinghua University, China)

P01.12 Implementation of 256-Channel Bipolar Voltage Control System for p-i-n Diode Reconfigurable Antennas

Xueying Chen, Jiaqi Li, Kaize Wang, Yongle Wu and Weimin Wang (Beijing University of Posts and Telecommunications, China)

P01.13 Angle-Spectral Joint Sensing via Bound States in the Continuum Metasurfaces

Ruifeng Liu (Tsinghua University, China); Meng Chen (nuctech Ltd., China); Yingxin Wang and Ziran Zhao (Tsinghua University, China)

P01.14 WiFi-CSI-Based Edge Activity Recognition with a Lightweight CNN-GRU Network

Chongrui Wang and Yan Shi (Xidian University, China)

P01.15 A Volume Mesh Generation Method for the Electromagnetic Analysis with Integral Equation

Shuoqian Gao, Zhenhong Fan and Yuxuan Chen (Nanjing University of Science and Technology, China)

P01.16 Independent DOA Estimation for Dual-Polarized Waves via Programmable Metasurface

Qian Zhu, Han Wei Tian, Chao Song and Ya Li Zhao (Southeast University, China); Wei-Xiang Jiang (SEU, China)

P01.17 A Coarse-to-Fine Search Strategy in Reduced-Order Modeling for Fast Broadband Analysis of Microstrip Feeding Networks for RF Chiplet Integration

Zhe Chen, Hao-Xuan Zhang and Wen-Yan Yin (Zhejiang University, China)

P01.18 A Parallel Mesh Refinement Method with Local Body-Fitted Correction for Large-Scale Electromagnetic Scattering

Tianbo Shang (University of Electronic Science and Technology of China, China); Yongjia Sun (UESTC, China); Pei-Yao Chen (University of Electronic Science and Technology of China, China); Xiaoyu Zhang (Nanjing University of Science and Technology, China); Mengmeng Li (Nanjing University of Science and Technology & Communication Engineering, China); Sheng Sun (University of Electronic Science and Technology of China, China)

P01.19 An Efficient Multilevel Macro Basis Function Method for Large-Scale Finite Periodic Arrays

Si Jia Guo, Yu Mao Wu and Yu Mao Wu (Fudan University, China)

P01.20 Electric Fast near-Field Transformation on Arbitrary Measurement Surfaces

Yue Guo and Xiaowei Huang (Beijing Institute of Technology, China); Xin-Qing Sheng (School of Information and Electronics, Beijing Institute of Technology, China)

P01.21 *Spatial Phase Pre-Compensation for High-Gain Radiation Antenna in Non-Uniform Plasma Environments*

Yuhang Shi (GuiLin University of Electronic Technology, China); Jinjun Mo (Guilin University of Electronic Technology, China)

P01.22 *Low-Rank Compression of the Slot-Buffer Matrix in FEM: Balancing Approximation Error and Field Accuracy*

Hui Wang, Jiaxuan Wang and Qiang Ren (Beihang University, China)

P01.23 *Odd-Even Mode Engineering in Electromagnetic Topological States of Magnetic Photonic Crystals*

Zheng Gong, Minhan Xu, Yanan Wang, Chengpeng Liang, Li Liang and Yin Poo (Nanjing University, China)

P01.24 *Neural Network-Based Adaptive Source Placement for the Multifilament Current Method with Arbitrary Boundaries*

Liu Xiaojie (Peng Cheng Laboratory & Shenzhen University, China); Kai Wang (Peng Cheng Laboratory, China); Sai-Wai Wong (Shenzhen University, China); Xiaohu G Wu (Broadband Communication, Pengcheng Laboratory, Shenzhen, China); Ye Wang (Peng Cheng Laboratory, China)

P01.25 *Wideband Dual-Circularly Polarized Shared-Aperture Antenna Array for Ku-/Ka-Band CubeSat Communications*

Yu Wen, Jun-Hui Ou and Xiuyin Zhang (South China University of Technology, China)

P01.26 *Bayesian Optimization Based Thermomechanical Integrity Design for Vertically Symmetric Double-Sided Cooling Power Modules*

Wan-Qing Wang, Xiao-Yu Wang, Wen-Hao Li, Da-Wei Wang and Wen-Sheng Zhao (Hangzhou Dianzi University, China)

P01.27 *Electrothermal Co-Simulation of Array Structures Based on Periodic Boundary Conditions*

Linpeng Yu, Hao-Xuan Zhang and Wen-Yan Yin (Zhejiang University, China)

P01.28 *Power Integrity Modeling and Analysis for Memristor in Neuromorphic Array Circuits*

Shuoxin Ji, Jiarui Qiu, Yuankai Xie and Hanzhi Ma (Zhejiang University, China)

P01.29 *Aperture Enlargement of Mobile Antenna Using Wearable Textile Metasurfaces*

Xianghui Qiu (Harbin Engineering University, China); Shuai S. A. Yuan, Mohammadmahdi Asgari, Francisco S. Cuesta and Sergei Tretyakov (Aalto University, Finland); Xuchen Wang (Harbin Engineering University, China & XYZ Company, China); Viktor Asadchy (Aalto University, Finland)

P01.30 *A Directly Amplifier-Integrated Antenna with Filtering Response and High Efficiency*

Xiao Li and Qingle Zhang (Shenzhen University, China)

P01.31 *Generalized RWG Basis Functions for Broadband Electromagnetic Analysis*

Yinyin Ma, Zhenhong Fan and Mingxuan Zhang (Nanjing University of Science and Technology, China)

P01.32 *2-Bit Reconfigurable Unit Cell for High-Power Microwave Transmitarrays*

Yadan Zang, Jiangfeng Han, Haitao Wang and Jin Meng (Naval University of Engineering, China)

P01.33 *Hybrid Neural Network Framework with Physical Priors and Regional Division for Accurate Numerical Green's Function Acceleration*

Xiaohan Xue, Lin Lei and Jun Hu (University of Electronic Science and Technology of China, China)

P01.34 *Design of a High-Performance Broadband Frequency Source*

Liangcheng Hou (Chongqing Institute of Microelectronics Industry Technology, UESTC, China); Daotong Li (School of Microelectronics and Communication Engineering, Chongqing University); Zuqiang Ou (University of Electronic Science and Technology of China, China); Jincai Qiao (Chongqing Institute of Microelectronics Industry Technology, UESTC, China); Zhongqian Niu (University of Electronic Science and Technology of China, China); Bo Zhang (Yangtze Delta Region Institute (Quzhou), University of Electronic Science and Technology of China)

P01.35 *Miniaturized Dual-Feed Slotted Patch Antenna Design for 915 MHz RFID Systems*

Beichen Cao and Wenzhe Song (Southeast University, China); Rui Pei (Xi'an Jiaotong-Liverpool University, China); Wei Bing Lu (Southeast University, China)

P01.36 *Pattern Null Optimization Based on Covariance Matrix Adaptation Evolution Strategy*

Yiping Liu, Yanshuo Shen and Li Zhang (Xidian University, China)

P01.37 *An E-Band Cassegrain Antenna with Edge-Shielding-Free Design for Microwave Backhaul Applications*

Jingtao Zeng and Jianlin Li (Guangdong Shenglu Telecommunication Technology Company, China); Huiping Yang (South China Normal University, China); Yong Dai (Guangdong Shenglu Telecommunication Technology Company, China); Geng-Bo Wu (City University of Hong Kong, Hong Kong); Hua Yang (Guangdong Shenglu Telecommunication Technology Company, China)

P01.38 A V-Band GaN Oscillator Based on Computational Oscillation Model

Hanze Chen (Suzhou Institute of Nano-tech and Nano-bionics, Chinese Academy of Sciences); Wenwei Gong and Xinxing Li (Suzhou Institute of Nano-tech and Nano-bionics, Chinese Academy of Sciences, China); Yi Pei (Dynax, USA); Hua Qin and Jiandong Sun (Suzhou Institute of Nano-tech and Nano-bionics, Chinese Academy of Sciences, China)

P01.39 A Direct Matrix Solution for Spherical Spiral near-Field Antenna Measurements

Xin Yang (China Automotive Engineering Research Institute, China); Jiangling Xie (China Automotive Engineering Research Institute Co., Ltd., China); Rui Chen (China Automotive Engineering Research Institute, China); Liling Zhou and Yang Huang (China Automotive Engineering Research Institute Co., Ltd., China)

P01.40 A Data-Driven Framework for IGBT Junction Temperature Monitoring and Lifetime Estimation Using LSTM Networks

Li Tan-Yi (1 State key Laboratory of Advanced Power Semiconductor Devices, China 2 Zhuzhou CRRC Times Semiconductor Co. Ltd, China); PengFei Liu, Li Guisheng, Wang Xuan, Peng Peng, Li Shaojia, Liheng Zhu and Qin Rongzhen (Zhuzhou CRRC Times Semiconductor Co. Ltd, China); Huazhi Xiang (CRRC, China); Wen-Yan Yin (Zhejiang University, China)

P01.41 Low-Profile Magnetic Dipole Antenna with an Obtuse Triangular Structure

Kebing Meng, Mengyao Hu, Xingbao Lin and Zibin Weng (Xidian University, China)

P01.42 Broadband MIMO Antenna Design Based on the Multi-Stub Loading Technique

Mengyao Hu, Kebing Meng, Xiongfei Long and Zibin Weng (Xidian University, China)

P01.43 Inverse Design of Dual-Polarized Bandpass Frequency Selective Surfaces with Wide Angular Stability via a Deep Generative Model

Yiheng Wang, Enze Zhu, Erji Li and Hao Xie (Zhejiang University, China); Qian Wang (AVIC Research Institute for Special Structures of Aeronautical Composites, China); Zhun Wei and Wen-Yan Yin (Zhejiang University, China)

P01.44 An SVD-DNN Hybrid Reduced-Order Model for Multiphysics Simulation of Chiplet-Integrated Silicon Devices

Zhifa Zhang (Zhejiang University, China); Nian-En Zhang (Zhejiang university, China); Wen-Yan Yin (Zhejiang University, China)

P01.45 Silicon-Based Lumped-Distributed on-Chip Millimeter-Wave Wideband Filter

Bukun Xu (South China University of Technology, China); Xin Gao (Shanghai Institute of Satellite Engineering, China); Wenjie Feng (South China University of Technology, China)

P01.46 Performance Analysis of E-Field and H-Field Antennas for eLoran Propagation Delay Measurement

Jiaxin Song (Xi'an University of Technology, China); Zhenzhu Zhao (Xian University of Technology, China); Yurong Pu and Xi Xiaoli (Xi'an University of Technology, China)

P01.47 Optimized Dipole Group Selection Strategy for Chip Electromagnetic Analysis Based on Surface Scanning Equivalent Source

Shuo Wang (China Electronics Standardization Institute, China); Hong Yang (China Electronics Standardization Institute (CESI), China)

P01.48 A Fast 3-D Electromagnetic Frequency-Domain Solver Based on Matrix Frequency Decomposition

Kehua Chen, Na Bai and Naixing Feng (Anhui University, China)

P01.49 Efficient Optimization of High-Gain Dual-Lens Antennas Based on Co-Evolutionary Algorithm

Chen Wang (Guilin University of Electronic Technology, China); Lin Peng (Guilin University Of Electronic Technology, China)

P01.50 A 22 nm FD-SOI Millimeter-Wave Phase Shifter Design Based on Back-Gate Biasing Technique

Xiao-Lan Tang (Gannan University of Science and Technology, China); Yilu Li (Institute of Microelectronics, China); Xing Zhao (Institute of Microelectronics of Chinese Academy of Sciences, China); Hao-Ran Zhu (Anhui University, China)

P01.51 A Reconfigurable Metasurface Integrating Sensing, Communication, and Beamforming for Passive IoT

Miao Li (Southeast University, China); Yi Zhou (东南大学, China); Han Qing Yang, Lijie Wu, Rui Bi, Shao Nan Chen and Jun Yan Dai (Southeast University, China); Jitong Ma (Dalian University of Technology, China); Huidong Li and Qiang Cheng (Southeast University, China)

P01.52 Towards Mesh-Free Simulation and Generative Inversion in Oceanic Electromagnetics

Xingran Guo and Xiao Tiao Jie (National University of Defense Technology, China); Yu Gu (China); Jie Liu (National University of Defense Technology, China); Keqin Li (State University of New York at New Paltz, USA)

P01.53 A Finite-Difference Modal Method for Multimode Field Reconstruction in Evaporation Ducts

Kuanyi Chen (School of Physics, Xidian University, China); Bing Wei (Xidian University, China); Qiang Zhao (China Research Institute of Radiowave Propagation, China)

P01.54 Efficient Isosurface Extraction via Spatial Reordering and Cell Selection

Li Zhang, Li Xu, Xing Li and Bin Li (University of Electronic Science and Technology of China, China)

P01.55 Research on Full-Link Isolation Technology for Large Dynamic Range Digitally Controlled Attenuation Systems

Zhu Jintao and Tianyu Xu (Harbin Engineering University, China); Mingzhao Song (ITMO University, Russia); Xinrui Liu (Harbin Engineering University, China)

P01.56 Compact High-Selectivity Bandpass Filter Based on ISGW Using Complementary Open Ring Resonators

Wuzhou Xiao, Hong Yuan, Chuanzhen Wang and Chengyu Deng (Yunnan University, China)

P01.57 An Ultra-Wideband Millimeter-Wave Dielectric Rod Antenna

Feng Cao, Guanghui Xu, Yingsong Li and Zhixiang Huang (Anhui University, China)

P01.58 A Vertically Symmetric Dual-Array Differential Magnetic Tracking System for Capsule Robots

Xiaoyang Wu (National University of Singapore, Singapore); Yongxin Guo (City University of Hong Kong, Hong Kong)

P01.59 Surface Current Distribution Analysis of Electrically Large Platforms Using FDTD Method

Hongyu Zhu (Dongshen Electromagnetic Technology (Chengdu) Co., Ltd., China); Zixuan Liu (COMAC Shanghai Aircraft Design & Research Institute, China); Pengfei Xie and Shasha Zhang (Dongshen Electromagnetic Technology (Chengdu) Co., Ltd., China)

P01.60 Simulation and Verification of Radar Scattering Characteristics of Weak Sea Surface Targets

Jiahao Liu (Buaa, China); Peilin Huang (Beihang University, China); Nan Wu (701 Research Institute, China)

Saturday, August 22 13:30 - 15:30

S01: AI for Antennas & Devices

Room A

Chairs: Wei Lin (The Hong Kong Polytechnic University, Hong Kong), Luyu Zhao (Anhui University, China), Guan-Long Huang (Foshan University, China), Chaoyun Song (Shenzhen University, China), Xiaoming Chen (Xi'an Jiaotong University, China)

13:30 AI-Assisted High-Dimensional Design for RF and Millimeter-Wave Integrated Circuits (Invited)

Qingfeng Zhang, Huihua Liu and Kai Kang (University of Electronic Science and Technology of China, China)

13:50 AI-Assisted Far-Field Wireless Power Transmission for Supercapacitor Enabled IoT Application

Wei Lin (The Hong Kong Polytechnic University, Hong Kong)

14:05 Structural Decoupling in Phase-Shifter-Free Reconfigurable Arrays for Base-Station Applications

Shuxin Zheng and Bingyi Qian (Xian Jiaotong University, China); Xiaoming Chen (Xi'an Jiaotong University, China)

14:20 Experimental Validation of Efficiently Measuring the Complex Transmission Matrix by Power-Only Method in Phased-Array Multibeam Testing

Hangning Ran (Xi'an Jiaotong University, China); Huaqiang Gao (Xian Jiaotong University, China); Xiaoming Chen (Xi'an Jiaotong University, China)

14:35 Automated Design of Pixelated Reflective Metasurfaces Driven by Small-Sample Machine Learning

Zhao Zhou, Yuqi He and Wei Lin (The Hong Kong Polytechnic University, Hong Kong)

14:50 Equivalent-Circuit Modeling and Design of Stacked-Metasurface Ultra-Wideband Millimeter-Wave Antenna Arrays

Zhi Zhao, Ji-Wei Lian and Dazhi Ding (Nanjing University of Science and Technology, China)

15:05 Aperture Field Acquisition Based on Programmable Digital Coding Metasurface

Xuanjing Li and Junwei Wu (Southeast University, China); Yan Shi (Xidian University, China); Yanbing Li (Beijing Jiaotong University, China)

Saturday, August 22 13:30 - 15:30

S02: Mutiphysics CEM and SIPI

Room B

Chairs: Kanglong Zhang (Hangzhou Dianzi University, China), Naixing Feng (Shenzhen University, China), Yuxian Zhang (Anhui University, China)

13:30 *Electromagnetic Multiphysics Modeling and Simulation of Multiscale Media (Invited)*

Zhixiang Huang and Kaikun Niu (Anhui University, China)

13:50 *Validation of a 2D Acoustic High-Order FDTD Method with COMSOL Software*

Fei Yang (Anhui university, China); Yue Qin (Anhui University, China); Junji Dai (Anhui university, China); Yuxian Zhang (Anhui University, China)

14:05 *A High Gain, Low Sidelobe anti-Interference Antenna Structure for GPS L1 Band*

Chengzhi Wang, Yi-Feng Cheng, Lu Li and Kanglong Zhang (Hangzhou Dianzi University, China)

14:20 *High-Gain Low-Sidelobe Dual-Band Array Antenna*

Lu Li, Yi-Feng Cheng, Chengzhi Wang and Kanglong Zhang (Hangzhou Dianzi University, China)

14:35 *Adjoint Sensitivity Analysis of One-Dimensional Multi-Port S-Parameters*

Siqi He, Tianzhi Qiu and Rui Cao (Anhui University, China); Xuyang Lu (Anhui Universtiy, China); Yuxian Zhang (Anhui University, China)

14:50 *A Compact MIMO Antenna with Defected Ground Structures for Implementing Three-Port Tri-Band*

Tianzhi Qiu, Siqi He and Rui Cao (Anhui University, China); Xuyang Lu (Anhui Universtiy, China); Yuxian Zhang (Anhui University, China)

15:05 *Fast 2.5D Modeling of Irregular via Structures for High-Speed PCB Signal Integrity*

Caifu Sun and Shiquan He (University of Electronic Science and Technology of China, China); Tao Zhou (Southwest University of Science and Technology, China); Xu Wang (Zhejiang University, China)

Saturday, August 22 13:30 - 15:30

S03: Meta for Communication and Sensing

Room C

Chairs: Wei-Xiang Jiang (SEU, China), Han Wei Tian (Southeast University, China)

13:30 *Full-Space Metasurfaces for Array Antenna and 5G Wireless Communication Applications (Invited)*

Yijun Feng (Nanjing University, China)

13:50 *Optoelectronic Metasurface-Enabled Cross-Media Wireless Communications*

Xin Ge Zhang, Dong Jie Wang and Jian Kai Sun (Southeast University, China); Wei-Xiang Jiang (SEU, China)

14:05 *Manipulation of Polarization, Phase, and Frequency Based on Polarization Rotation Reflective Surface*

Weihao Tang and Yutao Ma (Xidian University, China); Yongtao Jia (National Laboratory of Science and Technology on Antenna and Microwaves, Xidian University, China); Ying Liu (Xidian University, China)

14:20 *Dynamic Electromagnetic Wave Control by Reconfigurable Metasurfaces*

Ke Chen (Nanjing University, China)

14:35 *Switchable Frequency Selective Surface Design Based on Inverse Network*

Rui Xi (Xidian University, China)

14:50 *A Dual-Polarized Surface-Wave Collector for Efficient End-Fire Radiation*

Kaiqi Xiao (Harbin Engineering University, China); Xuchen Wang (Harbin Engineering University, China & XYZ Company, China)

15:05 Randomly Generated 1-Bit Coding Metasurface for Symmetric Dual-Beam Reflection

Xinke Kuang, Guisheng Liao, Yajia Meng, Boya Li, Jingwei Xu and Rui Xi (Xidian University, China)

Saturday, August 22 13:30 - 15:30

S04: Advanced Numerical Methods in EM

Room D

Chairs: Mengmeng Li (Nanjing University of Science and Technology & Communication Engineering, China), Junwei Wu (Southeast University, China), Jiang Ming (NCRL, China)

13:30 Parametric Scattering Center Model for Multilayered Thin-Coated Targets Based on Physical Scattering Mechanisms (Invited)

Yanan Lu (复旦大学, China); Yu Mao Wu (Fudan University, China)

13:50 Wideband Radar Range-Angle Detection for UAV Swarm Based on Multi-Beam Coherent Fitting

Yun Zhu, Zihao Pan and Qi Zhang (Nanjing University of Science & Technology, China); Mengmeng Li (Nanjing University of Science and Technology & Communication Engineering, China); Dazhi Ding (Nanjing University of Science and Technology, China)

14:05 Research on Multi-Radar Sensing of Dynamic UAV Swarm Based on the 3-D ASC Model

Zihao Pan (Nanjing University of Science & Technology, China); Mengmeng Li (Nanjing University of Science and Technology & Communication Engineering, China); Dazhi Ding (Nanjing University of Science and Technology, China)

14:20 A Hybrid Body of Revolution Method and Equivalence Principle Algorithm for Solving Radiation Problem

Hanru Shao (University of Electronic Science and Technology of China, China); Yapeng Huang (Ningbo University, China)

14:35 Fast a Posteriori Error Estimation for Multi-Domain Multi-Solver Electromagnetic Simulations

Xiong Yang, Haojie Cao, Peiling Lin, Lin Lei and Jun Hu (University of Electronic Science and Technology of China, China)

14:50 Simulation of Plasma Self-Channeling in Argon Based on Fluid Model

Zhiqi Zhu and Yong Bo (Anhui University, China); Yang Lixia (Jiangsu University, China); Guo Xianmin Guo, Ms and Dawei Li (Anhui University, China); Xinyuan Fan (AnHui University, China)

15:05 Gray-Height Prior Guided Neural Reconstruction of Sea Surface Geometry for Electromagnetic Modeling

Jianxin Chen (中国舰船研究院, China); Zhixia Wang (Harbin Engineering University, China); Xiaogang Yang and Jinlin Miao (中国舰船研究院, China)

Saturday, August 22 15:45 - 17:45

S05: Antenna Design and Optimization

Room A

Chairs: Yingrui Yu (Nanjing University of Science and Technology, China), Ji-Wei Lian (Nanjing University of Science and Technology, China), Fan Wu (Southeast University, China)

15:45 Research Advances on Multiband Shared-Aperture Antenna Arrays (Invited)

Bian Wu and Jiao Yin (Xidian University, China)

16:05 A Compact Broadband Horizontally Polarized Omnidirectional Antenna for C-Band Application

Haoxuan Li (Anhui University, China); Liu Zhaoyang (Beijing Institute of Technology, China); Zhihui Wang (Anhui university, China); Jiebing Chan and Luyu Zhao (Anhui University, China)

16:20 An Efficient Design and Optimization Approach for Transmitarray-Based Compact Antenna Test Ranges

Jun Zhang and Wei Deng (Southeast University, China); Jingxue Wang (Hohai University, China); Fan Wu (Southeast University, China)

16:35 Wideband Circularly Polarized Magneto-Electric Dipole Antenna for Millimeter-Wave Communications

Ruiming Lin, Yingrui Yu, Ziqing Chu and Wen Wu (Nanjing University of Science and Technology, China)

16:50 *Design of SIW Slot Antenna with Fan-Shaped Flat-Top Beam Pattern*

Qiang Chen, Yingrui Yu, Ziqing Chu and Wen Wu (Nanjing University of Science and Technology, China)

17:05 *A Low-Profile K/Ka Dual-Band Shared-Aperture Antenna Array with High Isolation and Low Cross-Polarization*

Xin Chen, Yingrui Yu and Ziqing Chu (Nanjing University of Science and Technology, China); Wen Wu (Nanjing University of Science & Technology, China)

17:20 *Wideband Slot-Loaded Circular Microstrip Antenna for Enhanced Medical IoT Connectivity*

Qirat Ali Jafferri (MUET Jamshoro, Pakistan); Permanand Soothar (Mehran University of Engineering and Technology Jamshoro Sindh Pakistan, Pakistan); Faiza Saeed (MUET Jamshoro, Pakistan); Zaheer Ahmed Dayo (Huanggang Normal University, P.R China, China); Zulfiqar Ali Arain (Mehran University of Engineering and Technology, Pakistan); Shardha Bai (MUET Jamshoro, Pakistan); Zhonglin He (Huanggang Normal University, China)

Saturday, August 22 15:45 - 17:45

S06: Multiphysical Metamaterial & Surface

Room B

Chairs: Zuoqia Wang (Zhejiang University, China), Ying Li (Zhejiang University, China)

15:45 *Recent Progress on Acoustic-Controlled Reprogrammable Metasurfaces (Invited)*

Wei-Xiang Jiang (SEU, China)

16:05 *Electromechanical Coupling in Stretchable Valley-Hall Metasurfaces*

Jian Lin Su, Jian Wei You and Tie Jun Cui (Southeast University, China)

16:20 *Transmissive Coding Metasurface for 1-Bit Reconfigurable Design*

Li Zhuoyue and Li Si Jia (Air Force Engineering University, China)

16:35 *Analog Computing Capability of an Origami-Inspired Compact Cylinder*

Enzong Wu (Zhejiang University, China); Shenghui Zhao (AVIC Research Institute for Special Structures of Aeronautical Composites, China); Xiaoyu Pang (Research Institute for Special Structures of Aeronautical Composite AVIC, China); Hongsheng Chen and Zuoqia Wang (Zhejiang University, China)

16:50 *Diverse Frequency Time Modulation for False Target Deception and Real Target Range Estimation*

Jianyu Zhou (School of Microelectronics (School of Integrated Circuits), China); Yonggeng Zhu (Nanjing University of Science and Technology, China); Mengmeng Li (Nanjing University of Science and Technology & Communication Engineering, China); Jihong Gu and Dazhi Ding (Nanjing University of Science and Technology, China)

17:05 *Beyond the Single-Channel Absorption Limit in Dipole Antennas with Time-Modulated Length*

Yuqi Zhao and Zeyuan Li (Harbin Engineering University, China); Xuchen Wang (Harbin Engineering University, China & XYZ Company, China)

17:20 *Polarization-Insensitive Reflective Metasurface for near-Field Beam Focusing*

Yuanyuan Wang, Guisheng Liao, Zihui Liu, Yinsheng Wang and Jingwei Xu (Xidian University, China); Ying Li (Zhejiang University, China); Yufeng Chen and Rui Xi (Xidian University, China)

Saturday, August 22 15:45 - 17:45

S07: mmWave/THz Materials and Devices

Room D

Chairs: Bian Wu (Xidian University, China), Junming Zhao (Nanjing University, China), Zong-Rui Xu (City University of Hong Kong, Hong Kong)

15:45 Functional Metasurfaces at Terahertz Bands (Invited)

Mingyao Xia (Peking University, China)

16:05 Low Loss Wideband Bandpass Filter in InP Technology with Cryogenic Performance Analysis

Hongliang Tian (Shenzhen University, China)

16:20 A Plasma-Switched TE₁₁ Mode Converter with Reconfigurable Circular Polarization

Jiaqi Tan, Qiang Zhang, Lei Wang, Heng Zhang, Yunfei Sun and Chengwei Yuan (National University of Defense Technology, China)

16:35 Charge-Carrier Dynamics in Composite Films Based on Quasi-2D (BA)₂(MA)_n-1PbBr_{3n+1} Perovskite

Stepan V. Pozdnyakov, Sergey V. Makarovv and Maria Sandzhieva (ITMO University, Russia)

16:50 A Review on Wide Bandgap Semiconductors for Next-Generation Application

Hamza Arif (University of Central Punjab (UCP), Pakistan)

17:05 Design of Low-Profile Ultra-Wideband Absorbing Structure with Patterned Graphene - ITO Composite

Yajing Zheng (AVIC Research Institute for Special Structures of Aeronautical Composites, China); XingYu Li (BeiHang University, China); Donglin Sun (China); Meng-Jie Li (AVIC Research Institute for Special Structures of Aeronautical Composites, China)

17:20 A 299-315-GHz Dual-Band Radiator Array with Cascaded Transmission Line-Based Feedback Network for Phase Noise Improvement

Yang Meng (City University of Hong Kong, Hong Kong); Liang Wu (The Chinese University of Hong Kong, Shenzhen, China); Yongxin Guo (City University of Hong Kong, Hong Kong)

Saturday, August 22 15:45 - 17:45

T01: 2026 Sino-Singapore Scientific Forum (Jointly Organized by ACES-China)

Room C

Sunday, August 23

Sunday, August 23 8:00 - 10:00

S08: RF Devices and Microsystems

Room A

Chairs: Yongrong Shi (Nanjing University of Aeronautics and Astronautics, China), Weiwei Zhou (Nanjing University of Aeronautics and Astronautics, China)

8:00 Design-Technology Co-Optimization (DTCO) Method for RF Circuits (Invited)

Shuman Mao and Yuehang Xu (University of Electronic Science and Technology of China, China)

8:20 Compact Terahertz Heterodyne Interference Imager Based on Transmission-Reflection-Integrated Metalens (Invited)

H U (Beijing Institute of Technology, China)

8:40 Compact X-Band GaAs pHEMT LNA Using Current-Reused Technique

Chen Hui (Nanjing University of Aeronautics and Astronautics, China); Weiwei Zhou (China, Nanjing University of Aeronautics and Astronautics); Yan Jiang (Nanjing University of Posts and Telecommunications, China); Yun Qian and Yongrong Shi (Nanjing University of Aeronautics and Astronautics, China)

8:55 Design of an 8 * 8 Multi-Beam Network Based on Butler Matrix Work at W-Band Frequencies

Xuyang Hou and Fangxiu Jia (NJUST, China); Shuo Shu (NUAA, China); Enlin Wang and Xun Jiang (Nanjing University of Aeronautics and Astronautics, China)

9:10 A 4.5~6.0 GHz Low-Noise Amplifier Using Gate-Inductor-Free Simplified Noise Matching Technique in 0.18- μ m CMOS

Benwei Wu, Tongyu Zhou, Zhihao Li and Guoxiao Cheng (Nanjing University of Science and Technology, China)

9:25 Novel Packaged Broadside Isolated Differential Striplines with Wide-Band Transition Structure for High-Speed Digital Circuits

Wenjie Jia and Peng Zhou (Nanjing University of Science and Technology, China); Mengmeng Li (Nanjing University of Science and Technology & Communication Engineering, China); Dazhi Ding (Nanjing University of Science and Technology, China)

Sunday, August 23 8:00 - 10:00

S09: CEM and AI

Room B

Chairs: Zhuo Li (Nanjing University of Aeronautics and Astronautics, China), Zheng-Yu Huang, hzy (Nanjing University of Aeronautics and Astronautics, China), Yi Wang (Nanjing University of Aeronautics and Astronautics, China), Xinlei Chen (Nanjing University of Aeronautics and Astronautics, China)

8:00 Characteristic Mode Analysis 3.0: From Realistic to Intelligent (Invited)

Qi Wu (Beihang University, China)

8:20 Study of an FSS with High Angular Stability for Radome Application

Runchen Wang and Yi Wang (Nanjing University of Aeronautics and Astronautics, China)

8:35 Mixed-Precision FGMRES with Magnitude-Partitioned SpMV for Electromagnetic FEM on DCU

Ancheng Lin (University of Chinese Academy of Sciences, China); Wu Wang (Chinese Academy of Sciences, China)

8:50 Low-Rank Compression of the Slot-Buffer Matrix in FEM: Balancing Approximation Error and Field Accuracy

Hui Wang, Jiaxuan Wang and Qiang Ren (Beihang University, China)

9:05 An FCC-FDTD Method for Debye Media Based on Matrix Exponential Technique

Boyan Cui (Beihang University); Guangzhi Chen (Beihang University, China)

9:20 A Fast Width-Based Method for Estimating Gap-Equivalent RCS on a Low-Scattering Carrier

Qi Liu (Beijing University of Aeronautics and Astronautics, China); Nan Wu (701 Research Institute, China); Peilin Huang (Beihang University, China)

9:35 Microwave Edge Diffraction Effects in Locally Covered High-Density Plasma

Chuanping Yu and Xiaowei Huang (Beijing Institute of Technology, China); Xin-Qing Sheng (School of Information and Electronics, Beijing Institute of Technology, China)

Sunday, August 23 8:00 - 10:00

S10: Antennas and Sensors for WBAN/IoT

Room C

Chairs: Sen Yan (Xi'an Jiaotong University, China), Xuchen Wang (Harbin Engineering University, China & XYZ Company, China)

8:00 Co-Dual-Polarized Full Duplex Antennas for Integrated Sensing and Communication (ISAC) Applications (Invited)

Yuenian Chen and Ying Liu (Xidian University, China); Yongtao Jia (National Laboratory of Science and Technology on Antenna and Microwaves, Xidian University, China)

8:20 Compact Cross-Polarised Chipless RFID Sensor for Cold Chain Breaks Monitoring

Zhang Jufang (Xi'an University of Technology, China)

8:35 Single-Fiber Buckling Embroidered Plasmonic Metafabric for Body Area Networks

Xincheng Yao, Junyu Zhu, Liqiao Jing and Zuojia Wang (Zhejiang University, China)

8:50 IDC Integrated Cross-Polarised Chipless RFID Sensor for Accurate Cold Chain Breaks Monitoring

Zhang Jufang (Xi'an University of Technology, China)

9:05 Radiation Pattern Reconfigurable Antenna Activated by Thermally-Stimulated Shape-Reconfigurable Polymer Materials

Meng Wang and Chuxiong Zhang (Central South University, China)

9:20 A Broadband and Angle-Stable Reconfigurable Metasurface for anti-Radar Detection

Yilin Zheng, Changrong Liu and Wenhai Zhang (Soochow University, China); Yijun Feng (Nanjing University, China)

Sunday, August 23 8:00 - 10:00

S11: Meta for Wave Manipulation

Room D

Chairs: Xuchen Wang (Harbin Engineering University, China & XYZ Company, China), Fu Liu (Xi'an Jiaotong University, China)

8:00 Amplifier-Based Programmable Metasurfaces: Full-Polarization Bidirectional Enhancement and Joint-Modulation for High-Efficiency SWIPT (Invited)

Xin Wang (Xi'an University of Posts and Telecommunications, China); Jiaqi Han (China); Qiang Feng, Hao Xue, Haixia Liu and Yajie Mu (Xidian University, China); Ling Yun Niu (Xi'an University of Electronic Science and Technology, China); Long Li (Xidian University, China)

8:20 Design of Dielectric-Free Frequency-Selective Surfaces Based on Multiport Network Theory

Mengzhu Han, Wenrui Zheng and Hui Li (Dalian University of Technology, China)

8:35 Efficient Polarization-Converted Second Harmonic Generation Enabled by Diode-Bridge-Assisted Chiral Structure

Ke Li (Xi'an Jiaotong University); Zhenzhi Liu (Westlake University, China); Yanpeng Zhang (Xi'an Jiaotong University); Xuchen Wang (Harbin Engineering University); Fu Liu (Xi'an Jiaotong University, China)

8:50 Experimental Demonstration of a Time-Varying Metasurface Absorber Beyond the Rozanov Limit

Maoxin Wang and Zeyuan Li (Harbin Engineering University, China); Xuchen Wang (Harbin Engineering University, China & XYZ Company, China)

9:05 Spatial-Polarization Multiplexed Metagratings for Independent Electromagnetic Wave Transformations

Kaiqi Xiao (Harbin Engineering University, China); Xuchen Wang (Harbin Engineering University, China & XYZ Company, China)

9:20 Electromagnetic Supercoupling via 1D Photonic Doping of Epsilon-near-Zero Media

Ziheng Zhou (Fuzhou University, China); Zhizhang (David) Chen (Dalhousie University, Canada)

9:35 Chebyshev-Designed Metamaterial for Broadband Wide-Angle Plane-Wave Impedance Matching

Junyang Li, Chenshuo Zhang, Yinlong Li, Wenchang Zhu, Zechen Tian, Liangliang Liu and Luo Yu (Nanjing University of Aeronautics and Astronautics, China)

Sunday, August 23 10:15 - 12:15

P02: Poster Session 2

Room: Poster & Exhibition Area

P02.1 Mechanical Scanning Probe Lithography of the Van der Waals Heterostructure Nanophotonic Devices

Prokhor Alekseev (Ioffe Institute, Russia)

P02.2 AI-Enhanced Denoising and Multi-Feature Fusion for Interpretability Improvement in Underground Coal Mine Audio-Frequency Electrical Prospecting

Mingxing Li (Shandong Vocational College of Science and Technology, China); Yanli Xiao (Shandong Provincial NO.4 Institute Of Geological and Mineral Survey, China); Song Yang, Xiaoqiang Liu, Shunfu Xu, Yadi Liu, Xinjie Qiu, Lijiao Fu, Jia Liu, Shuo Liu and Mengyao Chen (Shandong Vocational College of Science and Technology, China)

P02.3 A Wideband Circularly Polarized Large-Frequency-Ratio Dual-Band Antenna Based on Two-Arm Spiral and Transmitarray

Xu Bin Zhou and Zi Long Ma (South China University of Technology, China)

P02.4 Symmetry Control of BIC Dark State Between Bright Modes in Metasurfaces

Rui Yang, Xiuyu Wang, Jiahui Li, Kaiwen Zou, Hao Huang and Qun Ren (Tianjin University, China)

P02.5 Ultra-Narrowband Chiral Metasurfaces Driven by Bound States in the Continuum

Jiahui Li, Xiuyu Wang, Rui Yang, Kaiwen Zou, Hao Huang and Qun Ren (Tianjin University, China)

P02.6 A Broadband Dual-Polarized Multimode-Composite Antenna for Millimeter-Wave Applications

Duoyu Lv (Beijing Jiaotong University, China); Yu Jian Li and Jun Hong Wang (Beijing Jiaotong University, China)

P02.7 Research on Signal Amplitude Nonlinear Compensation Algorithm in Complex Modulation Systems

Mingzhe Xu and Xu Tianyu (Ceyear Technologies Co. Ltd, China); Zhu Jintao (Harbin Engineering University, China)

P02.8 An Accelerated Genetic Algorithm Framework for ATEM Inversion Leveraging Deep-Learning-Based Forward Emulators

Siyuan He (China); Longfei Zhang (Southwest Jiaotong University, China)

P02.9 Physics-Driven ADMM-Unrolled Network with Implicit Anatomical Priors for Microwave Breast Imaging

Wang Wenan and Gong Zhen (University of Electronic Science and Technology of China, China); Yifan Chen (University of Waikato & University of Electronic Science and Technology of China, New Zealand)

P02.10 Millimeter-Wave Packaged Antenna Array Based on MEMS Technology

Runchao Zhu and Qian Chen (Anhui University, China)

P02.11 A High-Isolation and High-Gain MIMO Millimeter-Wave Antenna Based on Launch on Package Technology

Xu Chu, Qian Chen, Zhihai Xiao and Zhixiang Huang (Anhui University, China); Yang Lixia (Jiangsu University, China); Yingsong Li (Anhui University, China)

P02.12 Fabrication and Performance of 2D vdW CuInP2S6 with Ferroelectric-Photonic Synergy for Nonvolatile Memory

Zengyuan Fang (Guilin University of Electronic Technology, China); Xingpeng Liu (Guilin University of Electronic Technology, China)

P02.13 Contact-State Monitoring for Wearable Devices Using Resonant-Parameter Drift of Body-Surface Coils

Ziliang Wei and Yizhe Su (Xiamen University of Technology, China); Yueming Gao (Fuzhou University, China)

P02.14 One-Step Leapfrog ADI-FDTD for Wide-Band Modelling Lumped Networks by Using Vector Fitting Technique

Yunfei Wang, Xianghua Wang and Rui Luo (Tianjin University of Technology and Education, China)

P02.15 A Dual-Circularly Polarized Folded Transmitarray Antenna with Co-Modulation of Amplitude and Phase

Yang Cai, Lijun Bu, Hong Ma, Siyu Qi and Yu Tian (Space Engineering University, China); Liu Yang (Space Engineering University of PLA, China)

P02.16 Design of a High-Gain Wideband Dual-Polarized Spiral Antenna

Ying Li and Yaqing Yu (Chongqing University of Posts and Telecommunications, China)

P02.17 LSTM-Based Ground Target Recognition Method Using Fuze Echo Features

He Haijun, Tian Bo, Hu Wenhui, Sihan Zhao, Hui Yuanfei and Ma Changhao (China)

P02.18 Research on Feature Extraction of Radio Fuze Echo of Terrain Background Based on Wavelet Transform

Sihan Zhao, Yuanfei Hui, Tiantian Feng and He Haijun (China)

P02.19 Minimum Complete Dataset Construction for Ground Target Scattering: Near-Field Reconstruction and Noise Fusion

Tian Bo, He Haijun and Li Wei (China)

P02.20 A 2-18 GHz Ultra-Wideband Distributed Low Noise Amplifier

Aqiang Xie (The 36th Research Institute of China Electronics Technology Group Corporation, China); Xiaoguo Huang and Xiaowei Dai (No.36 Research Institute, CETC, China)

P02.21 Prediction of Time-Varying RCS for Large-Scale UAV Swarm Based on GRU

Tiantian Feng, Sihan Zhao, Yuanfei Hui and Haichao Zhong (China)

P02.22 Analysis of Echo Characteristics for near-Field Dynamic Rendezvous in Composite Scenarios

Yuanfei Hui, Tiantian Feng, Sihan Zhao and He Haijun (China)

P02.23 An eLoran ECD Estimation Method Based on Levenberg-Marquardt Waveform Fitting

Jiaju Zhou (Xi'an University of Technology, China); Zhenzhu Zhao (Xian University of Technology, China); Jiafan Wang, Xi Xiaoli and Dandan Wang (Xi'an University of Technology, China)

P02.24 Design of Dual-Band and Tri-Band Bandpass Filters Based on High-Order Modes in Spoof Surface Plasmon Polaritons

Wentao Yang and Baoping Ren (East China Jiaotong University, China)

P02.25 A Design of Dielectric Rod Antenna with Low Sidelobe

Jizheng Pei (Guilin university of electronic technology, China); Xinhua Yu (Guilin University of Electronic Technology, China); Zongshuai Yu (Shandong First Medical University, China)

P02.26 A Dual-Band Microwave Sensor Using a Corrugated CSRR Structure for Enhanced Permittivity Characterization

Xiao Hao, Wei Ming, Xue Xin and Wang Hao (No.36 Research Institute, CETC, China)

P02.27 Expanding the Bandwidth of FeCo-Based Microwave Absorbing Composite Through Metamaterial Design

Mengchao Guo (China)

P02.28 Electromagnetic Design and Experimental Validation of a Compact Omnidirectional Magnetic Antenna for Loran-C Reception

Z Zhao (Xi'an University of Technology, China); Jiuxiang Gao (National Time Service Center, Chinese Academy of Sciences, China); Xi Xiaoli (Xi'an University of Technology, China)

P02.29 GPU and Lookup Table Accelerated Nyström Method for Electromagnetic Scattering

Guopeng Ji, Bing Wei, Jiayu Lyu and Hong Peng (Xidian University, China)

P02.30 SAR Target Detection Method Based on Frequency-Domain Feature Enhancement

Hui Xu (Anhui Business and Technology College, China); Huiyao Wan (Anhui University, China)

P02.31 AI-Driven Millimeter-Wave Radar Intelligent Sensing for Complex Electromagnetic Environments

Pengfei Hu and He Haijun (China)

P02.32 A Temporal Convolutional Network-Based Absorbing Boundary Condition for the One-Step Leapfrog ADI-FDTD Method

Rui Luo, Xianghua Wang and Yunfei Wang (Tianjin University of Technology and Education, China)

P02.33 Analysis on Scattering Characteristics of Re-Entry Capsule with Plasma Sheath

Haiyao Chu, Linqian Li, Minmin Shi and Bing Wei (Xidian University, China)

P02.34 Analysis of Dynamic RCS Characteristics of a Ship Under Wave-Induced Motion

Xibo Kang (Xidian University, China); Hao Wang (University of XiDian, China); Bing Wei and Haoran Wei (Xidian University, China)

P02.35 A Portable Three-Port Network-Based Inductive Coupling Method for Non-Contact Online Impedance Characterization

Yexin Xing (Www.czie.edu.cn/, China); Zhenyu Zhao (National University of Singapore, Singapore)

P02.36 Precise Response Prediction of Pixelated Planar Filters via a Clustering-Based Learning Scheme for Heterogeneous RF Chiplet Integration

Linyan Zou, Jingwei Zhang and Wen-Yan Yin (Zhejiang University, China)

P02.37 Analysis of the Influence of Non-Ideal Plane Wave Amplitude Errors on RCS Measurement

Kunpeng Zhang (Guilin University Of Electronic Technology, China); Jinjun Mo (Guilin University of Electronic Technology, China)

P02.38 Investigation of the Magnetic Circular Dichroism of Graphene-Plasma-Based Absorbers by a Stability-Improved ADE-FDTD

Jian-Yun Gao (Tianjin Vocational Institute, China); Xianghua Wang, Yunfei Wang and Rui Luo (Tianjin University of Technology and Education, China)

P02.39 *Complex Targets with Non-Ideal Surfaces Modeling and Application in Radar Imaging*

Cunjie Jia, Jiaqi Lu and Guo Kun-yi (Beijing Institute of Technology, China); Xin-Qing Sheng (School of Information and Electronics, Beijing Institute of Technology, China)

P02.40 *A RF-DC Rectifier Circuit for Ambient Internet of Things Chip*

Song Xiangyu, Jiachen Li and Yong Jin Zhou (Shanghai University, China)

P02.41 *Time-Domain Model Study of Schottky Diodes for Microwave Rectifier Design*

YuXian Ye and Pengde Wu (Hangzhou Dianzi University, China)

P02.42 *A Non-Uniform Subgridding FETD Method Based on the Hanging Variable*

Yaxin Wang and Juan Chen (Xi'an Jiaotong University, China); Kaihang Fan and Chunhui Mou (School of Information and Communication Engineering, China)

P02.43 *From Maxwell's Equations to Interconnects: Teaching Electromagnetic Theory in IC-Focused Undergraduate Programs*

Si-Ping Gao, Yuanyan Su and Jingyuan Zhang (Nanjing University of Aeronautics and Astronautics, China)

P02.44 *Design and Analysis of a 2.85/5.7 GHz Active Harmonic Tag on Polyimide Substrate*

Tao Yuan, Yuanzhe Li, Feng Zhao, Dawei Lu and Hongqi Fan (National University of Defense Technology, China)

P02.45 *Time-Domain Reflectometer for Non-Destructive Testing of Leakage from Water Pipeline*

Zongyan Hou and Wenzao Shi (Fujian Normal University, China)

P02.46 *Computational Domain Truncation and Mesh Discretization Criteria for FEBI Modeling in ECNDT*

Runze Liu, Yanjie Wu, Jianhao Cai and Yang Bao (Nanjing University of Posts and Telecommunications, China); Hossein Taheri (Georgia Southern University, USA)

P02.47 *Comparative Study on Reliability of TO-247 and TPAK Packaged SiC MOSFETs with Multiphysics Simulation for High Power Chiplet Integration*

Kai-Yi Yang and Yin-Da Wang (Zhejiang University, China); Rui Wu (Zhejiang Grecon Semiconductor, China); Wen-Yan Yin (Zhejiang University, China)

P02.48 *Design of Ku-Band 8×8 AMC Phased Array Antenna Based on LTCC Process*

Wei Wang (China); Xun Jiang (Nanjing University of Aeronautics and Astronautics, China); Guixiang Jin, Zhongliang Li and Weifeng Sun (Southeast University, China); Zhongyuan Fang (Southeast University, Singapore); Yu Yang (University of Electronic Science and Technology of China, China); Yin Li (Southeast University, China)

P02.49 *Research on Broadband Signal Amplitude Detection Technology Based on Multi-Path Attenuation*

Xu Tianyu, Kai Lu and Mingzhe Xu (Ceyear Technologies Co. Ltd, China)

P02.50 *A Horizon Detection Algorithm Based on Signal Coherence Enhancement for Ground Penetrating Radar Data*

Xinghua Shi, Song ZhiYan, Wang Jianwei and Li Shaolong (China Research Institute of Radiowave Propagation, China)

P02.51 *Circularly Polarized Filtering Dielectric Resonator Antenna*

宋志伟 (Xi'an University of Electronic Science and Technology, China); 张铮 Zhang (西安电子科技大学)

P02.52 *High-Precision Electromagnetic Modeling Method for Electrically Large Targets with Complex Structures*

Saihang Qie (Northwestern Polytechnical University, China); Changyou Li (School of Electronics and Information Northwestern Polytechnical University, China)

P02.53 *Numerical Modeling of 2D SH Wave Propagation Based on a Staggered-Grid FDTD Method*

Yue Qin and Fei Yang (Anhui University, China); Zeya Wang (Anhui university, China); Yuxian Zhang (Anhui University, China)

P02.54 *High-Linearity Reconfigurable Dual-Band MMIC SPDT Switch Utilizing CCL Structures*

Jiamin Zeng (Harbin Institute of Technology (Shenzhen), China); Zhangjian Liang (City University of Hong Kong (Dongguan), China); Runchen Zhang (National University of Singapore, Singapore); Jingyuan Zhang (Nanjing University of Aeronautics and Astronautics, China); Xu Yan (Harbin Institute of Technology (Shenzhen), China)

P02.55 *A near-Field SBR Method for Calculating Bistatic Scattered Fields Using Antenna Radiation Patterns*

Yi Wenjing (Xidian University, China); Hao Wang (Xidian University, Xi'an, Shaanxi, China); Bing Wei and Haoran Wei (Xidian University, China)

P02.56 *Parametric Modeling of Frequency Selective Surfaces Using a Pole-Residue-Based Neuro-TF Model*

Huo Ran (Guilin University Of Electronic Technology, China); Jinjun Mo (Guilin University of Electronic Technology, China)

P02.57 Phaseless near-Field Super-Resolution EMI Reconstruction Using Enhanced GANs

Guo Jiaxin, Xingye Chen, Kenan Wang, Yanhua Peng, Hui Xu and Fei Dai (Beihang University)

P02.58 Directional Sea Surface Reconstruction Based on 2D Inverse Fourier Transform of PM Spectrum

Jinlin Miao and Jianxin Chen (中国舰船研究院, China); Liang Peng (China)

P02.59 Three-Dimensional Imaging of Large Target by Wideband Multiple Aspect Electromagnetic Scattering

Jinlin Miao (中国舰船研究院, China); Hongyou Jiang (Beijing Institute of Economics and Management, China); Liang Peng (China)

P02.60 Study on the Electromagnetic Coupled Scattering of the Sea Surface and Ship

Jinlin Miao (中国舰船研究院, China); Hongyou Jiang (Beijing Institute of Economics and Management, China); Liang Peng (China)

Sunday, August 23 10:15 - 12:15

S12: Reconfigurable Meta & Antenna

Room A

Chair: Lei Ge (Shenzhen University, China)

10:15 Recent Advances in Coupling Matrix Methods for Microwave Filters and Filtering Antennas (Invited)

Xiuping Li (Beijing University of Post and Telecommunications, China)

10:35 An RFID-Controlled Sandwich-Structured Reconfigurable Metasurface Antenna Array

Mai Zhang (Xidian University, China)

10:50 A Substrate Integrated Waveguide (SIW)-Based Slot Antenna with Reconfigurable Radiation Patterns

Han Chanxi, Jiuzhou Chen, Huawei Lin, Quangan Chen and Lei Ge (Shenzhen University, China)

11:05 Gain-Enhanced Polarization Reconfigurable Magneto-Electric Dipole Antenna for Millimeter-Wave Applications

Xujun Yang and Zuxi He (Anhui Agricultural University, China); Leyan Chen (Beijing Normal-Hong Kong Baptist University, China); Xiaobo Zhou (Anhui Agricultural University, China)

11:20 A Broadband Tunable Metamaterial Absorber for Mutual Coupling Reduction in Antenna Arrays

Jiebing Chan, Jiachen Zhu, Haoxuan Li and Luyu Zhao (Anhui University, China); Zhihui Wang (Anhui university, China)

11:35 Design of 3D Ultra-Wideband Three State Active Frequency Selective Surface

Xiao Yu, Zihao Xu, Tao Hong, Yuchen Gao, Zhiqiang Wang and Jiangcheng Ge (Xidian University, China)

11:50 Design and Validation of Broadband -20 dB RCS Reduction Using a Polarization-Conversion Metasurface

Yuxuan Zeng, Zhonglei Mei and Tiaoming Niu (Lanzhou University, China)

Sunday, August 23 10:15 - 12:15

S13: Singular Meta-Optics

Room B

Chairs: Xuezhi Zheng (Katholieke Universiteit Leuven, Belgium), Jie Yang (Air force engineering university, China)

10:15 Multidimensional Engineering of Focused Optical Field (Invited)

Jian Chen (University of Shanghai for Science and Technology, China)

10:35 *Topology-Aware Perceptual Mapping for Robust OAM Image Transmission Through Atmospheric Turbulence*

Mingjian Cheng (XidianUniversity & School of Physics, China)

10:50 *Engineering Exceptional Points in Single Dielectric Mie Resonators*

Fan Zhang (Harbin Engineering University, China)

11:05 *Radar Cross Section of Dielectric Blunt Cone Under Arbitrary Bessel Vortex Wave Incidence*

H U (Xidian University, China)

11:20 *Effect of Dephasing on Quantum Transport of Non-Interacting Bosons in a Diamond Chain with Magnetic Flux*

Pavel Muraev (Siberian Federal University, Russia)

11:35 *Analysis and Design of Honeycomb Metamaterial Structures with Broadband Frequency Selectivity and Wide-Angle Stability*

Yuanzhao Lv (Northwest Polytechnical University Xi'an, China); Xin Ma (Northwestern Polytechnical University, China); Chunling Zhao (China COMAC Shanghai Aircraft Design and Research Institute, China); Guobin Wan (Northwestern Polytechnical University, China)

Sunday, August 23 10:15 - 12:15

S14: Meta for Absorption and Shielding

Room D

Chairs: Ming-Chun Tang (Chongqing University, China), Da Yi (Chongqing University, China), Xuchen Wang (Harbin Engineering University, China & XYZ Company, China), Shuomin Zhong (Ningbo University, China)

10:15 *Novel Ungrounded Shielding Technique for Evanescent Wave Interference Suppression in Electrically Small Cavity (Invited)*

Da Yi and Wei Zhou (Chongqing University, China); Zhi-Ge Wu and Zi-Tong Yan (Chongqing university, China); Ming-Chun Tang (Chongqing University, China)

10:35 *Isolation Enhancement of a Bistatic in Band Full Duplex Base Station Antenna Using a Static Absorbing Surface*

Song Shuai, Jiebing Chan and Luyu Zhao (Anhui University, China)

10:50 *All-Angle Polarization-Insensitive Perfect Absorption Based on Aperiodic Metagratings*

JunXin Liu and Kaiqi Xiao (Harbin Engineering University, China); Xuchen Wang (Harbin Engineering University, China & XYZ Company, China)

11:05 *Investigation of Wideband High-Selectivity Angle-Selective Structures*

Weiliang Yu (Hangzhou Dianzi University, China); Shizhao Tang and Leilei Liu (Nanjing University of Posts and Telecommunications, China); Guo Qing Luo (Hangzhou Dianzi University, China); Zhongxiang Shen (Yangtze Delta Region Academy of Beijing Institute of Technology, China)

11:20 *PEEC-Based Fast Evaluation of Power Routing Topology Effects on Low-Frequency Magnetic Radiation in Microsystem*

Han Han and Da Li (Zhejiang University, China); Di Gao (AVIC Research Institute for Special Structures of Aeronautical Composites, China); Xiaoyu Pang (Research Institute for Special Structures of Aeronautical Composite AVIC, China); Er-Ping Li (Zhejiang University, China)

11:35 *Research of an Ultra-Thin Metamaterial Absorber with Dual Broadband Responses in K and Ka Bands*

Zhiqiang Zhang (Hefei University of Technology, China); Yan Xu (QuantumCTek Co. Ltd, China); Haoyu Zhang and Jianfei Zhu (Hefei University of Technology, China)

11:50 *Programmable Electromagnetic Space via Metasurface Clusters*

Min Li (Anhui Agricultural University, China); Zuojia Wang and Hongsheng Chen (Zhejiang University, China)

Sunday, August 23 10:15 - 12:15

T02: Electromagnetic Education

Room C

Chairs: Sheng Sun (University of Electronic Science and Technology of China, China), Wei E. I. Sha (Zhejiang University, China)

10:15 *AI-Assisted Teaching of Antenna Polarization from Visualizations to HFSS Simulations*

Junbing Duan (Southwest Jiaotong University, China); Sheng Sun (University of Electronic Science and Technology of China, China)

10:30 *Exploration of Electromagnetic Fields and Waves Course Development from the Perspective of Integrating Science and Education*

Zi He (Nanjing University of Science and Technology, China)

10:45 *An AI-Empowered Intelligent Tutoring System for Electromagnetics Education Aided by Virtual Reality*

Jiahui Li, Yiwen Fang, Si Li, Wenyuan Xu and Shurun Tan (Zhejiang University, China)

11:00 *Quantum Electromagnetics Education: Bridging Quantum Theory and Electromagnetic Engineering*

Qun Ren and Hongze Yan (Tianjin University, China); Sheng Sun (University of Electronic Science and Technology of China, China); Wei E. I. Sha (Zhejiang University, China)

Sunday, August 23 13:30 - 15:30

P03: Poster Session 3

Room: Poster & Exhibition Area

P03.1 *Topological Integrated Photonic Chips for Terahertz Wireless Communications*

Wenhao Wang (Westlake University, China)

P03.2 *Design and Calibration of a PI-Based Flexible Phased Array Under Bending Conditions*

Minxing HE (Southeast University, China)

P03.3 *Tunable Optical Chirality Enhancement in Helicity-Preserving Fabry-Pérot Cavities*

Kliment V. Semushev and Maksim Tumashov (ITMO University, Russia); Oleg Blokhin (Moscow Institute of Physics and Technology, Russia); Ekaterina E. Maslova (ITMO University, Russia); Denis G. Baranov (Moscow Institute of Physics and Technology, Russia); Andrey Bogdanov (ITMO University, Russia)

P03.4 *Passive Reconfigurable Intelligent Surface Based on Movable Metasurfaces*

Weiren Zhu (Shanghai Jiao Tong University, China)

P03.5 *Coupling Surface Waves on Metasurface from an Oblique Incident Wave*

Guoxiang Dong and Bo Xiao (Xidian University, China); Xin Du (Xidian University, China); Hongyang Qu (Xidian University, China)

P03.6 *CNN-BPSO Assisted Optimization of Wideband Pixelated Dielectric Resonator Antennas*

Yulong Chen, Lei Li and Honglei Pan (Xidian University, China)

P03.7 *A K/Ku-Band Wideband Dual Circularly Polarized Domino Sparse Array for Satellite Communication*

Han Jiayu, Shichao Jin and Yu-Qian Yang (State Key Laboratory of Space Information System and Integrated Application); Zhen Duan (Space Star Technology Co., Ltd.(SSTC), China); Yujiao Guo (State Key Laboratory of Space Information System and Integrated Application); Zhe Cui (Space Star Technology Co., Ltd. (SSTC)); Liyue Zhao (State Key Laboratory of Space Information System and Integrated Application); Zhu Lin and Wang Qinglu (Space Star Technology Co., Ltd. (SSTC), China); Chenyu Mei (State Key Laboratory of Space Information System and Integrated Application); Wang Jing and Sun Jiaxing (Space Star Technology Co., Ltd. (SSTC), China)

P03.8 *An AI-Driven Generalizable Surrogate Modeling Framework for Electromagnetic Scattering Analysis*

Wenwei Zhang, Jiaqi Kang, Chenche Zhao and Wenchi Huang (Peking University, China); Jianing Cao (Beihang University, China); Huan Wang and Mingyao Xia (Peking University, China)

P03.9 *Asymmetric Self-Biased Magnetoelectric Antenna for Low-Frequency Applications*

Guizhen Long (Guilin University Of Electronic Technology, China); Jinjun Mo (Guilin University of Electronic Technology, China)

P03.10 A Point-Cloud-Driven Method for High-Frequency Radar Cross Section Computation of Electrically Large Three-Dimensional Targets

Ge Meng (Guilin University Of Electronic Technology, China); Zhipeng Huang (Guilin University Of Electronic Technology & Guangxi Academy of Artificial Intelligence, China); Jinjun Mo (Guilin University of Electronic Technology, China)

P03.11 Design of a Scalable CBRAM-Based mmWave Crossbar Switch Matrix Monolithically Integrated on Quartz for RF SiP

ZeHai Shi (ShenZhen University, China); Zong-Rui Xu (City University of Hong Kong, Hong Kong); Ken Ning (Shenzhen University, China)

P03.12 Low-Temperature Performance of Graphene Terahertz Photothermoelectric Detectors

Jinduo Zhang, Meng Chen, Yingxin Wang and Ziran Zhao (Tsinghua University, China)

P03.13 Design of a Triple-Mode Bandpass Filter Using a Cubic Dielectric Waveguide Cavity

Tayyab Hameed (National Key Laboratory of Radar Detection and Sensing Xidian University Xi'an, China); Tao Su and Bian Wu (Xidian University, China); Guangyuan Zhao (Xidian University, Xi'an, China); QuanLong Wen (Xidian, China & Xidian University, China)

P03.14 Optimization Design of CFRP for EMI Shielding Using Kriging Surrogate Model and NSGA-II

Yu Wu (Beijing Jiaotong University, China)

P03.15 A Novel Sidewall EBG Structure for 220GHz Multifunction Chip Packaging

Ruoxue Li, Xiaochi Lu, Yaoling Tian and Jun Jiang (China Academy of Engineering Physics, China)

P03.16 Design of Filtering Amplifier with Wideband and High-Isolation Based on Complex Impedance Matching Network

Yiyang Wang, Ke Bai and Chunxia Zhou (Nanjing University of Science and Technology, China)

P03.17 Modular High-Efficiency Dual-Polarized Tightly Coupled Antenna Based on Heterogeneous Dipole

Jingxian Chen (Shenyang Aircraft Design and Research Institute, China); Lin Cong (Xidian University of Electronic Science and Technology, China); An Bi (Shenyang Aircraft Design and Research Institute, China)

P03.18 Design of a Dual-Frequency Four-Arm Spiral Antenna with Loop Feeding Based on GPS System

Yuxiang Yan (Guilin University of Electronic Science and technology, China); Lucong Lu and WeiPing Cao (Guilin University of Electronic Technology, China)

P03.19 A Ka-Band CMOS Power Amplifier Using Transformer-Based Matching Network

Chao Wang, Chao Pang, Zhixuan Gong, Yongle Wu and Weimin Wang (Beijing University of Posts and Telecommunications, China)

P03.20 A CMOS Wide 9-GHz Bandwidth Two-Stage Common-Source Low-Noise Amplifier Covering 18.6-27.6 GHz

Zetong Rong and Ze Chen (Beijing University of Posts and Telecommunications, China); Shuchen Zhen (Beijing University of Posts and Telecommunications & School of Integrated Circuits, China); Yongle Wu and Weimin Wang (Beijing University of Posts and Telecommunications, China)

P03.21 Design of a Dual-Port Co-Frequency Coaxial Vehicular Antenna

Li Ding, Lucong Lu and WeiPing Cao (Guilin University of Electronic Technology, China)

P03.22 A Two-Stage Cascode PA with High Gain in 180-nm CMOS Technology for Ku-Band Applications

Chao Pang, Chao Wang, Zhixuan Gong, Yongle Wu and Weimin Wang (Beijing University of Posts and Telecommunications, China)

P03.23 Design and Measurement of a Triple-Notched UWB Antenna Loaded with Serpentine Branches and Inverted Convex Slots

Qinglin Liang, Lucong Lu and WeiPing Cao (Guilin University of Electronic Technology, China)

P03.24 A 23.4-29.3 GHz Common Source Power Amplifier in 180-nm CMOS Process

Ze Chen, Zetong Rong, Zhixuan Gong, Yongle Wu and Weimin Wang (Beijing University of Posts and Telecommunications, China)

P03.25 Research on Equivalence of Honeycomb Structures Based on Improved Anisotropic S-Parameter Inversion

Dongwu Zhang, Lixue Chen and Kangqiang Chen (AVIC Chengdu Aircraft industrial (Group) Co, Ltd, China); Xiaofeng Que (University of Electronic Science and Technology of China, China); Peihao Xu (AVIC Chengdu Aircraft industrial (Group) Co, Ltd, China)

P03.26 Dual-Band Transmitarray Antenna Based on Huygens' Principle

Zhi Han Zhou and Zi Long Ma (South China University of Technology, China)

P03.27 A K-Band Broadband High-Efficiency Linear Polarization Conversion Metasurface

ZhongQing Jiang (Guilin University Of Electronic Technology, China); WeiPing Cao (Guilin University of Electronic Technology, China)

P03.28 A W-Band Ridge Gap Waveguide Slot Array Antenna with Corporate-Feed Network

Wang Qiqi and WeiPing Cao (Guilin University of Electronic Technology, China)

P03.29 A Novel Compact IPD-Process Based Filtering Phase Shifter Chip with Wide Flat Phase-Difference Function

Siyi Duan (Beijing University of Posts and Telecommunications, China); Jie Shi and Xinyu Zhang (BUPT, China); Yongle Wu and Weimin Wang (Beijing University of Posts and Telecommunications, China)

P03.30 Metasurface-Based Folded Transmit-Array Antenna with Polarization Selective Reflection/Transmission

Shiyun Ma and Xinke Kuang (Xidian University, China); Kuiwen Xu (Hangzhou Dianzi University, China); Ying Li (Zhejiang University, China); Rui Xi (Xidian University, China)

P03.31 Prediction Method for Branch-Line Couplers Based on Equivalent Circuit Modeling and Neural-Network Residual Correction

Wenjing Zhang and Chunxia Zhou (Nanjing University of Science and Technology, China)

P03.32 Compact Unequal Wideband Non-Quadrature 28-GHz GaAs-IPD Coupler Chip Using Three-Section Coupled Lines and Four Transmission Lines

Jie Shi (BUPT, China); Siyi Duan (Beijing University of Posts and Telecommunications, China); Xinyu Zhang (BUPT, China); Yongle Wu and Weimin Wang (Beijing University of Posts and Telecommunications, China)

P03.33 Robust Dual-Band Implantable Antenna for Multi-Organ Digestive Tract Telemetry

Yutong Tian and Jingchen Wang (Xi'an Jiaotong-Liverpool University, China); Zhao Wang (Xi'an Jiaotong Liverpool University & University of Liverpool, China); Rui Pei (Xi'an Jiaotong-Liverpool University, China); Binta Hu (University of Liverpool, United Kingdom (Great Britain)); Wenzhang Zhang (Xi'an Jiaotong-Liverpool University, China & University of Liverpool, United Kingdom (Great Britain)); Qian Dong and Eng Gee Lim (Xi'an Jiaotong-Liverpool University, China)

P03.34 AttnRadar: Attention Dynamics Profiling via Radar for Workplace Fatigue Analysis

Jiang Han, Shuqin Dong, Maorong Zhang and Yongxin Guo (City University of Hong Kong, Hong Kong)

P03.35 Scattering Center Modeling and Fast Computation for near-Field Coupling Analysis

Jiaqi Lu, Guo Kun-yi and Cunjie Jia (Beijing Institute of Technology, China); Xin-Qing Sheng (School of Information and Electronics, Beijing Institute of Technology, China)

P03.36 Nonlinear Distortion Analysis of Reconfigurable Reflectarray with 3D Radiation Patterns

Yonghao Jia (Southeast University & State Key Laboratory, China); Xianli Tang (China)

P03.37 X-Band High-Efficiency GaN MMIC PA Based on Harmonic Suppression

Chenyu Wu (Southeast University, China); Yonghao Jia (Southeast University & State Key Laboratory, China)

P03.38 2-12 GHz GaN SPST/SPDT RF Switch MMIC Design with Inductive Resonator

Changyun Li (Southeast University, China); Yonghao Jia (Southeast University & State Key Laboratory, China)

P03.39 A Full W-Band Six-Port Network Based on Waveguide Directional Couplers with Heightened Branches

Xiuyun Lu, Jinping Yang, Lijie Xu, Haobin Wu, Yin Ji, Erlei Chen, Lina Duo and Can Xu (Nanjing University of Posts and Telecommunications, China)

P03.40 Large Area High Speed Quantum Well Infrared Photodetectors Enabled by Single and Multi-Mode Dual Heterodyne Validation Up to 10 GHz

Guanchen Li, Jiaxuan Cai and Meng Chen (Tsinghua University, China); Peng Bai (Institute of Applied Physics and Computational Mathematics, China); Yingxin Wang and Ziran Zhao (Tsinghua University, China)

P03.41 GaAs IPD Based Compact Dual-Port Ultra-Wideband Quasi-Reflectionless Bandpass Filter

Kai Chen (South China University of Technology, China)

P03.42 Design of a PIN-Diode-Based 2-Bit Reflective Metasurface for Beam Scanning

Shantong Liu (Guilin University Of Electronic Technology, China); WeiPing Cao (Guilin University of Electronic Technology, China)

P03.43 MXene@Permalloy Composite Shielding Layer for X-Band Cable Electromagnetic Protection

Wang Yang (Beijing University of Aeronautics and Astronautics, China); Yaoyao Li, Yicong Liu, Haobo Geng and Houpu Xiao (Beihang University, China)

P03.44 Towards High-Performance Reconfigurable Intelligent Surfaces

Xianbo Cao (Xidian University, China)

P03.45 Fast Electromagnetic-Thermal Field Prediction for 2.5D TGV Packaging Using UNO

Anna Dong (Anhui University, China); Songlin Wei (Xiamen Ocean Vocational College, China); Naixing Feng (Anhui University, China)

P03.46 Shortwave MUF Prediction Based on IRI-2020 and Three-Dimensional Magnetoionic Ray Tracing

Ou Ming, Jiayi Li, Qianyu Xiao and Chao Han (Shandong University of Science and Technology, China); Longjiang Chen (China Research Institute of Radio Propagation, China); Dongxu Wang (Shandong University of Science and Technology, China)

P03.47 Electromagnetic-Thermal Coupling Analysis of RF Heating in Complex Waveguide-Dielectric Structures Based on VFEM-TSEM

Yalan Xiao (Anhui University, China); Songlin Wei (Xiamen Ocean Vocational College, China); Na Bai and Naixing Feng (Anhui University, China)

P03.48 A Fast Method for Planar Resonance Analysis of PCBs with Arbitrary Shapes

Qiming E, Zheng Guo, Beining Sun, Kanglong Zhang, Peng Zhao and Gaofeng Wang (Hangzhou Dianzi University, China)

P03.49 Study on Wave-Transparent Performance of High-Temperature Resistant Ceramic Radome

Haigang Zhang and Rui Guo (China)

P03.50 Design and Comparative Study of Wave-Transparent Composite Material Radome

Rui Guo and Haigang Zhang (China)

P03.51 Comparison of Methods for Reducing Numerical Dispersion in the FDTD Algorithm

Jican Zhang (Southwest University of Science and Technology, China); Cijun Yan, Ye Zhou and Yifan Lyu (Anhui University, China); Longjian Zhou (Southwest University of Science and Technology, China)

P03.52 Thermal Design of Vehicle-Mounted Antenna Array Aperture

Rui Guo and Tianyu Fang (China)

P03.53 A ResMLP-Based Prediction Model for Transient Electromagnetic Disturbance Coupling to Transmission-Line Network

Chen Yaqi (Xi'an Jiaotong University, China)

P03.54 A 0.35GHz to 8 GHz Vivaldi Antenna for Antenna Measurement Applications

Chong-Can Wang (Foshan university, China); Ying-Xuan Huang, Le-Yan Shen, Guan-Long Huang, Xian-Hui He, Rui-Sen Chen and Qiang Shao (Foshan University, China); Jia-Jun Liang (Yulin Normal University, China); Jingtao Zeng (Guangdong Shenglu Telecommunication Technology Company, China)

P03.55 Design of Miniaturized 4×4 SIW Butler Matrix with Single-Layer Quartz Glass Substrate

Hao Ma (Foshan university, China); Ying-Xuan Huang, Le-Yan Shen, Guan-Long Huang, Xian-Hui He, Rui-Sen Chen and Qiang Shao (Foshan University, China); Jia-Jun Liang (Yulin Normal University, China); Jingtao Zeng (Guangdong Shenglu Telecommunication Technology Company, China)

P03.56 Ground Leakage Localization via Dynamic Polyline Trajectory and Electric Field Vector Analysis

Yang Chen (Jiangsu University of Science and Technology, China); Yuting Wu (Shanghai Aerospace Electronic Technology Institute); Jiacheng Dai (Zhejiang University, China); Peiying Lin (Jiangsu University of Science and Technology, China)

P03.57 Short Time Fourier Transform (STFT) of High-Resolution Range Profile (HRRP) in Study the Spectral Characteristics of Scattering Center

Jinlin Miao (中国舰船研究院, China); Nan Wu (701 Research Institute, China); Liang Peng (China)

P03.58 Stochastic Contact Modeling of Dry Electrodes for Common-Mode Rejection in Brain-Machine Interfaces

Sutanu Chatterjee (ITMO University, Russia); Xinrui Liu (Harbin Engineering University, China); Mingzhao Song (Harbin Engineering University, China & ITMO University, Russia)

P03.59 A Low-Cost Tunable Power Limiter Using Magnetostatic Surface Waves with Zero Power Consumption

Yiqi Liu, Jiaqi Zhang, Ziji Wang and Si-Ping Gao (Nanjing University of Aeronautics and Astronautics, China)

P03.60 Low-Cost, Compact and Tunable Bias System for Miniaturized Magnetostatic Wave Devices

Jiaqi Zhang, Yiqi Liu, Ziji Wang and Si-Ping Gao (Nanjing University of Aeronautics and Astronautics, China)

Sunday, August 23 13:30 - 15:30

S15: Multiphysics Modeling and Integration

Room A

Chairs: Yin-Da Wang (Zhejiang University, China), Qiwei Zhan (Zhejiang University, China), Wen-Yan Yin (Zhejiang University, China)

13:30 A Hybrid RWG-EPA-BoR Method for GPU-Accelerated Electromagnetic Scattering Analysis of Swarm Targets (Invited)

Mengmeng Li (Nanjing University of Science and Technology & Communication Engineering, China)

13:50 Multiphysics Simulation Using Semi-Structured Meshes for Thermal Management Design of Chiplets

Yin-Da Wang, Qiwei Zhan and Wen-Yan Yin (Zhejiang University, China)

14:05 Control Volume Finite Element Method on Triangular Prism Meshes for Drift-Diffusion Equations in Semiconductor Device Simulation

Qi-chao Wang, Li-Ming Xu and Wen-Yan Yin (Zhejiang University, China)

14:20 Electromagnetic-Thermal Coupling Simulation of Patch Antenna Based on DGTD and FETD

Zhen Wang (Anhui University, China); Mr.Wei Ding (China); Yong Bo (Anhui University, China); Yang Lixia (Jiangsu University, China); Ling Zhao and Xinyuan Fan (AnHui University, China)

14:35 An Efficient Short-Recurrence Block Iterative Method with Multiple RHS Dimension Reduction

Xing Li, Liang Li and Bin Li (University of Electronic Science and Technology of China, China)

14:50 On the Development and Application of an Unconditionally Stable Divergence-Preserving FDTD Method

Guoda Xie (Anhui University, unknown); Guilin Hou (Anhui University, China)

Sunday, August 23 13:30 - 15:30

S16: AI for EM Design

Room B

Chairs: Jing Jin (Central China Normal University, China), Feng Feng (Tianjin University, China), Weicong Na (Beijing University of Technology, China)

13:30 AI-Enhanced Modeling of Marine Atmospheric Ducts (Invited)

Lixin Guo (Xidian University, China); Hanjie Ji (Xidian University)

13:50 An Overview of Surrogate-Based Multiphysics Optimization Techniques for Microwave Filters

Jiaping Fu, Jing Jin and Hai Lin (Central China Normal University, China); Wei Zhang (Beijing University of Posts and Telecommunications, China)

14:05 SSP Technique-Integrated Mesh Space Mapping Optimization of a Tunable Five-Pole Waveguide Filter

Xiaojie Zhang and Feng Feng (Tianjin University, China); Shuxia Yan (Tianjin Polytechnic University, China); Mutian Li, Shaochang Liu and Kaixue Ma (Tianjin University, China); Qijun Zhang (Carleton University, Canada)

14:20 A Finite-Element MOR-Based Compact Neuro-Transfer Function Approach for Parametric Modeling of a Microwave Diplexer

Ke Liu and Feng Feng (Tianjin University, China); Shuxia Yan (Tianjin Polytechnic University, China); Weicong Na (Beijing University of Technology, China); Kaixue Ma (Tianjin University, China); Qijun Zhang (Carleton University, Canada)

14:35 Formulation and Performance Analysis of Embedded Domain Decomposition Method for Electromagnetic Simulations

Jiaqing Lu and Min Tang (Shanghai Jiao Tong University, China)

14:50 A Low-Rank Direct Solver for Sparse Matrices Associated with Finite-Element and Domain Decomposition Systems

Jiaqing Lu (Shanghai Jiao Tong University, China)

15:05 *Physics-Informed Neural Network Approach for Solving 3D Maxwell's Equations in Waveguide Problems*

Eliel Kolela, Zheng-Yu Huang, hzy and Yu Tian (Nanjing University of Aeronautics and Astronautics, China); Yi-ru Zheng (China)

Sunday, August 23 13:30 - 15:30

S17: AI for RF Inverse Design

Room C

Chairs: Enze Zhu (Zhejiang University, China), Jingwei Zhang (Zhejiang University, China), Zhun Wei (Zhejiang University, China), Wen-Yan Yin (Zhejiang University, China)

13:30 *Integrating Data, Physics, and Prior Information in Electromagnetic Data Inversion (Invited)*

Maokun Li (Tsinghua University, China)

13:50 *Adaptive Tabu-Enhanced Simulated Bifurcation for RCS Inverse Design of Coding Metasurface Arrays*

Pei-Yang Zhou, Shi-Han Zhang, Zi He and Dazhi Ding (Nanjing University of Science and Technology, China)

14:05 *Deep Reinforcement Learning-Based Co-Optimization of Power Planes and Decoupling Capacitors for Power Distribution Networks*

Keyi Ding, Ling Zhang, Li Jiang, Junjie Ren and Er-Ping Li (Zhejiang University, China)

14:20 *Solving Large-Scale Voxel Volume Integral Equations in Random Media Scattering via 3D U-Net Physics-Informed Neural Network*

Yuanhao Cao (Zhejiang University); Jiayi Du and Shurun Tan (Zhejiang University, China)

14:35 *CNN Modeling and Sample Proportion Impact Study for Aircraft RCS Target Recognition*

Shunli Sun (Beijing University of Aeronautics and Astronautics, China)

14:50 *An Efficient LCDI-FDTD Method for Conformal Dielectrics*

Chenshu Liu (Xi'an Jiaotong University, China); Lingpu Zhang (China); Juan Chen (Xi'an Jiaotong University, China); Kaihang Fan and Chunhui Mou (School of Information and Communication Engineering, China)

15:05 *A Co-Aperture 2-Bit Programmable Metasurface with Independent Control of Dual-Polarized EM Waves*

Peng Wang (Guilin University Of Electronic Technology, China); Liang Xu (China University of Mining and Technology, China)

Sunday, August 23 13:30 - 15:30

S18: Microwave/mmWave Arrays

Room D

Chairs: Ningning Yan (Tianjin University, China), Neng-Wu Liu (Xidian University, China), Yu Luo (Tianjin University, China)

13:30 *Physical Layer Secure Communications with Four-Dimensional Antenna Arrays (Invited)*

Yikai Chen (University of Electronic Science and Technology of China, China)

13:50 *Design of a Compact UWB Vivaldi Antenna*

Yuan-yuan Gao (Xi'an University of Electronic Science and Technology, China); Ke-Xin Sun and Neng-Wu Liu (Xidian University, China)

14:05 *A Compact UHF Omnidirectional Antenna for Bandwidth Improvement*

Ke-Xin Sun (Xidian University, China); Yuan-yuan Gao (Xi'an University of Electronic Science and Technology, China); Neng-Wu Liu (Xidian University, China)

14:20 *A Frequency -Reconfigurable Antenna Based on Hexagon-Twist Origami*

Yanshan Wang, Jingsong Wei, Xiao Zhang, Yu Luo and Kaixue Ma (Tianjin University, China)

14:35 *Bandwidth-Enhanced Leaky-Wave Antenna with Negative Group Delay Effect*

Junbing Duan (Southwest Jiaotong University, China); Lei Zhu (University of Macau, Macao); Cheng Liao (Southwest Jiaotong University, China)

14:50 *Physics-Informed Dimensionless Representation for Cross-Domain RIS Modeling and Design*

Yingjuan Lu and Qiang Cheng (Southeast University, China)

Sunday, August 23 15:45 - 17:45

S19: mmWave/THz Measurement

Room A

Chair: Jianqin Deng (Ceyear Technologies Co. Ltd, China)

15:45 *Testing Challenges and Recent Advances in Front Ends for Terahertz Application System (Invited)*

Dinghong Jia (Ceyear Technologies Co. Ltd, China)

16:05 *Numerical Research on the near-Field Brightness Temperature Transfer in the Radiometer Calibration Link*

Ming Jin and Haoran Zhang (Beijing University of Chemical Technology, China); Xiang Li and Ming Bai (Beihang University, China)

16:20 *An S-Parameter Calibration Method for Reflectivity Measurement of Soil Covered with Vegetation Litter*

Shaojie Xu and Shurun Tan (Zhejiang University, China)

16:35 *Near-Field Measurement of the Millimeter Wave and Terahertz Quasi-Optical System*

HaoTian Zhu (National Space Science Center, Chinese Academy of Sciences, China)

16:50 *Research on Terahertz Substance Detection and Identification Technology*

Botao Lu, Xiaolin Liang, Qi Wang, Xianbao Shi, Zhuo Chen, Mo Wang, Dinghong Jia, Huimin Wang, Wanshun Jiang, Fushun Nian and Jianqin Deng (Ceyear Technologies Co. Ltd, China)

17:05 *A Parallel FETI-DP Solver for 2D Eddy Current Problems with Extreme Conductivity Contrast*

Ke-Xiang Zhu, Yong-Zhuo Lv, Da-Wei Wang and Wen-Sheng Zhao (Hangzhou Dianzi University, China)

Sunday, August 23 15:45 - 17:45

S20: Advanced EM Simulation and Design

Room B

Chairs: Huapeng Zhao (University of Electronic Science and Technology of China, China), Song Sun (CAEP Microsystem and Terahertz Research Center, China)

15:45 *Large-Angle Incidence Electromagnetic Wave Control Technology*

Jin Cheng and JiFang Ren (Beijing Institute of Technology, China); Yulin Zhao (Yangtze Delta Region Academy of Beijing Institute of Technology, China); Xinliang Mao (Beijing Institute of Technology, China)

16:00 *Electric and Magnetic Probes for Electromagnetic Interference Testing: Principle and Applications*

Xing-Chang Wei (Zhejiang University, China)

16:15 *Preliminary Investigation of RCS Simulation Error Versus Geometrical Parameter Error*

Qi Xu (China Aero Polytechnical Establishment, China); Xueyuan Luo (University of Electronic Science and Technology of China, China); Yangzheng Yuan (University of Electronic and Science of China, China); Yongpin Chen and Huapeng Zhao (University of Electronic Science and Technology of China, China)

16:30 *Physically Consistent Video Synthesis of Range-Doppler Maps via Micro-Doppler Injection*

Ling Gui and Dongying Li (Shanghai Jiaotong University, China); Wenxian Yu (Shanghai Jiao Tong University, China)

16:45 Miniaturized Coupling Structures for Decoupling PIFAs on Handhold Devices

Qian Li (Xi'an University of Electronic Science and Technology, China)

17:00 Q-Factor Enhancement Mechanism of qBIC Resonances with Large Asymmetry Based on the Coupling with High-Order Diffraction Modes

Yi Tian, Qin FU and Qingguo Du (Wuhan University of Technology, China)

17:15 Multiphysics Modeling and Numerical Simulation of Helical Magnetic Flux Compression Generators

Muhammad Kamran Butt (Xi'an Jiaotong University, China); Samia Nasir (Chang'an University)

Sunday, August 23 15:45 - 17:45

S21: Large-Scale Array Modeling

Room C

Chairs: Hao-Xuan Zhang (Zhejiang University, China), Wen-Yan Yin (Zhejiang University, China)

15:45 Wideband Common-Mode Noise Suppression Technology (Invited)

Wenjie Feng (South China University of Technology, China)

16:05 A Wideband Side-Slotted Vivaldi Ceramic Antenna

Guanghui Xu and Mengqing Wang (Anhui University, China); Yanbin Luo (The East China Research Institute of Electronic Engineering, China); Wei Wang (No. 38 Research Institute of CETC, China); Zhixiang Huang (Anhui University, China)

16:20 Dual-Band Shared-Aperture W/D Band Reflectarray Fabricated by CNT-Loaded Glass Technology

Kaiyuan Jin, Jingwei Zhang, Yiyao Wang and Wen-Yan Yin (Zhejiang University, China); Haitao Li and Li Ding (Peking University, China)

16:35 Magnetic-Loss-Aware Electromagnetic-Thermal Cosimulation of Ferrite-Loaded Front-End Arrays

Hao-Xuan Zhang and Wen-Yan Yin (Zhejiang University, China)

16:50 Fast Sensitivity Analysis of Antenna Array Radiation Characteristics

Shi-Wei Guo, Kaiyuan Jin, Hao-Xuan Zhang and Wen-Yan Yin (Zhejiang University, China)

17:05 Parallel Electromagnetic-Thermal Multiphysics Computation of Large-Scale FSS Radomes

Yiyao Wang, Qiwei Zhan, Linpeng Yu, Hao-Xuan Zhang and Wen-Yan Yin (Zhejiang University, China)

Sunday, August 23 15:45 - 17:45

S22: RF Harvesting and SWIPT

Room D

Chairs: Jun-Hui Ou (South China University of Technology, China), Zhi-Xia Du (Guangdong University of Technology, China)

15:45 Rectifier and Rectenna Designs for Low Power RF Energy Harvesting (Invited)

Jun-Hui Ou and Xiuyin Zhang (South China University of Technology, China)

16:05 An Ultra-High-Q Distributed Spiral Inductor with Extremely Low ESR for Efficient -35 dBm RF Energy Harvesting

Pai-Dong Lin (Guangdong University of Technology, China); Jun-Hui Ou (South China University of Technology, China); Zhi-Xia Du (Guangdong University of Technology, China); Zongheng Wei (Guangdong Polytechnic Normal University, China); Zhuozhu Chen (Guangdong University of Technology, China)

16:20 A High-Efficiency Rectifier Design for Ultra-Low-Power RF Energy Harvesting

Chen Jiajie (South China University of Technology, China)

16:35 Millimeter-Wave Simultaneous Wireless Information and Power Transfer System for Wearable Medical and IoMT Applications

Saiful Islam and Van Linh Pham (Hanyang University, Korea (South)); Tuyen Nguyen Dinh (Ho Chi Minh City University of Technology, Vietnam); Hyoungsuk Yoo (Hanyang University, Korea (South))

16:50 An Interface-Level Measurement Descriptor for Load-Aware near-Field Magnetic WPT Using Metasurface Resonator Apertures

Junying Ye (Harbin Engineering University, China); Mingzhao Song (ITMO University, Russia)

17:05 Multi-Band Metamaterial Absorber for Microcurrent Collection

Chenshuo Zhang, Yinlong Li, Junyang Li, Wenchang Zhu and Aixuan Li (Nanjing University of Aeronautics and Astronautics, China); Hongyi Li (University of Aeronautics and Astronautics, China); Zechen Tian, Yulu Gao and Liangliang Liu (Nanjing University of Aeronautics and Astronautics, China)

17:20 Lumped Port Modeling for Frequency-Domain Finite Element Method

Yu Hang and Zhenhong Fan (Nanjing University of Science and Technology, China)

Monday, August 24

Monday, August 24 8:00 - 10:00

S23: Heterogeneous RF Packaging

Room A

Chairs: Lina Ma (Nanjing University of Aeronautics and Astronautics, China), Yue Zhang (East China University of Science and Technology, China), Zong-Rui Xu (City University of Hong Kong, Hong Kong)

8:00 Research Advances on Memristive Switches for Reconfigurable RF Front-Ends

Zong-Rui Xu (City University of Hong Kong, Hong Kong); Ken Ning (Shenzhen University, China); ZeHai Shi (ShenZhen University, China)

8:15 Advanced Large-Scale LEO SATCOM Phased Arrays: Opportunities and Challenges

Hao Jiang and Yongxin Guo (City University of Hong Kong, Hong Kong)

8:30 Investigation on Transmission and Radiation Characteristics for Bent Transmission Lines

Hanyu Liu (East China University of Science and Technology, China); Lina Ma (Nanjing University of Aeronautics and Astronautics, China); Yue Zhang (East China University of Science and Technology, China)

8:45 Advance Packaging Technology Based Planar Millimeter-Wave Antennas-in-Package for in-Band Full-Duplex Integrated Sensing and Communication

Lina Ma (Nanjing University of Aeronautics and Astronautics, China); Yue Zhang (East China University of Science and Technology, China)

9:00 W-Band Bonding Wire Compensation Structure Using Double-Layer Defected Ground

Wei Hong Liu and Yiyong Guo (Xi'an University of Posts & Telecommunications, China); Tianxi Ju, Fengyan Tian, Lei Zhou and Jialun Du (XUPT, China)

9:15 Energy Efficiency Ratio Optimization and 3D Heterogeneous Integration for Ultra-Low-Power SWIPT System

Yonghe Zhuang (Southeast University, China & Anhui Province Key Lab of Microsystems, China); Hanzi Sun and Hao Zhang (Anhui Province Key Lab of Microsystems, China); Deng Yuxuan (City University of Hong Kong, Hong Kong); Kaizhao Zhang (Anhui Province Key Lab of Microsystems, China); Xiao Dong Huang (Southeast University, China)

9:30 Low-Loss Z-Shaped Matching Vias for Ka-Band SWIPT Interconnection on AIN-HTCC

Yonghe Zhuang (Southeast University, China & Anhui Province Key Lab of Microsystems, China); Hanzi Sun and Kaizhao Zhang (Anhui Province Key Lab of Microsystems, China); Xiao Dong Huang (Southeast University, China); Hao Zhang and Ning Wang (Anhui Province Key Lab of Microsystems, China)

Monday, August 24 8:00 - 10:00

S24: RF Energy Applications

Room B

Chairs: He Guan (Northwestern Polytechnical University, China), Hao Zhang (Nanjing University of Science and Technology, China)

8:00 *Design of a Low-Cost 100 W Power Amplifier Based on LDMOS Transistors*

Xin Tong, Zhiwei Liang, Haodong Li, Hao Zhang and He Guan (Northwestern Polytechnical University, China); Liqing Wang (Jiangsu Shenzhou Semiconductor Technology Co. Ltd, China)

8:15 *Pixelated Doherty Power Amplifier Design Using an Enhanced CNN-Based Optimization Strategy*

Zhiwei Liang, Haodong Li and Xin Tong (Northwestern Polytechnical University, China); Qiaoxing Yin (Jiangsu Shenzhou Semiconductor Technology Co., Ltd., China); Hao Zhang (Northwestern Polytechnical University, China)

8:30 *Exploit Power Management Strategy for Simultaneous Ambient RF Energy Harvesting and Ultra-Low nW-Level Backscattering*

Jiaxian He (Northwest Polytechnical University Xi'an, China); He Guan, Zhuoya Wang and Hao Zhang (Northwestern Polytechnical University, China); Yin Xiao Yang (Matrix Thchnology (Jiangsu) Co. Ltd., China); Yang Jie (Matrix Technology (Jiangsu) Co. Ltd., China)

8:45 *Rolling-Structure Tribovoltaic Nanogenerator for High Speed Vibration Energy Harvesting*

Junjie Wu and Bing Wei (Xidian University, China); Di Guo (Beijing Institute of Nanoenergy and Nanosystems, China)

9:00 *Extremely Large-Scale Electromagnetic Analysis and Multiphysics Modeling Based on an Enhanced DGTD Algorithm*

Qiwei Zhan, Zhenzuo Si and Haoqiang Feng (Zhejiang University, China)

Monday, August 24 8:00 - 10:00

S25: Microwave Absorbers and Low-RCS Antennas

Room C

Chairs: Tian-Xi Feng (Dalian University of Technology, China), Meijun Qu (Communication University of China, China)

8:00 *A Three-Layer Frequency-Selective Surface Radome with Wideband Transmission and Low Scattering*

Li Peng, Guangshang Cheng, Guanghui Xu and Zhixiang Huang (Anhui University, China)

8:15 *A Low-Profile High-Gain and Low-RCS Antenna Array Integrated with Polarization Conversion Metasurface*

Dong-Sheng Liu, Tian-Xi Feng and Hui Li (Dalian University of Technology, China)

8:30 *A Wideband Dual-Polarized 3-D Microwave Absorber with Large Angular Stability*

Jing-Wen Yan, Tian-Xi Feng and Hui Li (Dalian University of Technology, China)

8:45 *A Wideband Low-Profile Circularly Polarized Array with Broadband RCS Reduction*

Jia-Hao Zhu, Tian-Xi Feng and Hui Li (Dalian University of Technology, China)

9:00 *A Three-Dimensional Ultra-Broadband Metamaterial Absorber Based on ITO Resistive Film*

Yinlong Li, Junyang Li, Chenshuo Zhang and Wenchang Zhu (Nanjing University of Aeronautics and Astronautics, China); Hongyi Li (University of Aeronautics and Astronautics, China); Zechen Tian and Liangliang Liu (Nanjing University of Aeronautics and Astronautics, China)

9:15 *Design of a Multiband Metamaterial Absorber Using Hexagonal Inductive Loop and Dual-Layer Resistive Films with Honeycomb Dielectric*

XingYu Li (BeiHang University, China)

9:30 *Model Design and Wave Absorption Performance Analysis of Silicon Carbide Fiber Composite Structure*

Shuhang Yi, Yan Wang, Yilun Zhao, Qinyi Dong and Shennan Guo (National Key Laboratory of Scattering and Radiation); Hongcheng Yin (Science and Technology on Electromagnetic Scattering Laboratory, China)

Monday, August 24 8:00 - 10:00

S26: AI Enhanced RF Simulations

Room D

Chairs: Yunyun Hu (Tongji University, China), Yiqian Mao (Southeast University, China), Qingtao Sun (Eastern Institute of Technology, Ningbo, China), Dezhi Wang (Eastern Institute of Technology, New Zealand)

8:00 *Deep Learning-Based Rapid Imaging for Towed Transient Electromagnetic Data*

Ruiqi Wang, Yunhe Liu, Changchun Yin, Yang Su, Xiuyan Ren and Bo Zhang (Jilin University, China)

8:15 *A Physics-Driven Neural Network Method for Electromagnetic Inverse Scattering Problems*

Yunyun Hu, Hui Wang, Qing He and Mei Song Tong (Tongji University, China)

8:30 *Fast 3D Modeling of Electromagnetic Logging Responses in Complex Media*

Qingtao Sun (Eastern Institute of Technology, Ningbo, China)

8:45 *An LLM-Driven Intelligent Agent Framework for Automated Electromagnetic Simulation*

Yisong Liu, Daoqi Liu, Maokun Li, Fan Yang and Shenheng Xu (Tsinghua University, China)

9:00 *Simulation and Measurement of L/Q Characteristics for via-Interconnected Planar Spiral Inductors with Multi-Turn Specifications*

Yunhao Wang and Taixin Zhang (青岛大学, China); Yifei Zhang (Qingdao University, China)

Monday, August 24 10:15 - 12:15

P04: Poster Session 4

Room: Poster & Exhibition Area

P04.1 *Transient Electromagnetic Interference Induces Unequal Length Microstrip Interline Crosstalk*

Qian Li, Tian Wang and Yunfei Kan (Shijiazhuang University, China)

P04.2 *Control of Focusing Characteristics of Autofocusing Airy Vortex Beams in Anisotropic Oceanic and Atmospheric Turbulence*

Xu Yan (Xi'an University of Electronic Science and Technology, China); Haobin Wen (Air Force Engineering University, China)

P04.3 *Reconfigurable Flat Optical Devices Enabled by the Dislocation Degree of Freedom*

Dapeng Zhang and Fei Zhang (Institute of Optics and Electronics, Chinese Academy of Sciences, China)

P04.4 *Dynamic Metasurface Coding for mmWave Communications: From Harmonic Modulation to Secure Transmission*

Yujie Liu (Nanjing University of Aeronautics and Astronautics, China)

P04.5 *Pump-Dependent Charge-Carrier Dynamics in Composite Films Based on Quasi-2D (BA)₂(MA)_{n-1}Pb_nBr_{3n+1} Perovskite*

Maria Sandzhieva (ITMO University, Russia)

P04.6 *A Physics-Guided Residual Learning Method for Mixed-Mode S-Parameter Calibration of High-Speed Twinax Cables*

Yu Zhu, Oussama Gassab, Anmol Abbas Lodhi and Hao Xie (Zhejiang University, China); Fang He (Zhejiang Zhaolong Interconnect Technology Co., Ltd., China)

P04.7 *Modeling Electromagnetic Coupling Effects in Floating Crossing Cables*

Zongfei Zhou (Beijing University of Aeronautics and Astronautics, China); Yueyun Hu (Shanghai Aircraft Design & Research Institute, China); Jieyu Xing (Beihang University, China)

P04.8 *Highly Efficient Correction of Failure Elements in Two-Dimensional Phased Arrays*

Yun-Fei Qiang and Rui-Xin Wu (Nanjing University, China); Wei Wang (No. 38 Research Institute of CETC, China)

P04.9 Research on the Upscaling Method of Effective Electrical Parameters for Digital Rock Based on Spatial Statistical Characteristics

Xu Tian, Zhili He and Dezhao Zhang (Chang'an University, China)

P04.10 Design of C-Band Stealth FSS Radome

Rui Liu, Jiaqi Tan, Wen-Yi Xiao, Heng Zhang, Yunfei Sun, Qiang Zhang and Chengwei Yuan (National University of Defense Technology, China)

P04.11 A Structure-Reusing Large Frequency-Ratio Antenna Based on SIW

Zuo Yanan, Guorui Han and Xinwei Chen (Shanxi University, China)

P04.12 Analysis on Pressure-Sensitive Properties of Cylindrical Resonant Cavity with Multiphysics Coupling Simulation

Zhou Jianglong (China); Tao Jiang, Weida Bai, Feng Yan and Zili Jiang (The Northwest Institute of Nuclear Technology, China); Lu Pin and Gao Guodong (China)

P04.13 3-8.5GHz Ultra-Wideband Printed Log-Periodic Antenna Array Design

Dezhao Zhang, Zhili He and Xu Tian (Chang'an University, China)

P04.14 A Miniature Triple-Band Two-Element Implantable MIMO Antenna

Li Hairong and Hua Li (University of Electronic Science and Technology of China, China)

P04.15 Human Vital Signs Detection Based on Three-Dimensional Positioning

Zhuang Zhao (Anhui University, China)

P04.16 Dual-Band Metasurface for Dynamic Wireless Power Transfer and Beam Tracking

Shuming Zhao (Xi'an Jiaotong-Liverpool University, China); Wenzhang Zhang (Xi'an Jiaotong-Liverpool University, China & University of Liverpool, United Kingdom (Great Britain)); Dijiang Huang, Zijun Wang and Zhanyuan Ning (Xi'an Jiaotong-Liverpool University, China)

P04.17 Poisson Random Fusion Texture Filling for Irregular Regions

Xunwang Dang (National Key Laboratory of Scattering and Radiation, Beijing, China)

P04.18 A Dual-Circularly Polarized Magneto-Electric Dipole Phased Array Antenna with Wide Scanning Angle

Yajing Mu and Jianyin Cao (Nanjing University of Science and Technology, China); Hao Wang (Nanjing University of Science & Technology, China)

P04.19 An Electromagnetic Sensitivity Threshold Prediction Framework Based on Dynamic Feature Graphs and Multi-Head Attention

Haobo Geng and Yaoyao Li (Beihang University, China); Weiping Tong (China)

P04.20 Time-Domain Signal Compensation Method for Electromagnetic Coupling Current Probes Using Deep Learning

Rui Wang (Beijing University of Aeronautics and Astronautics, China); Zi Yang Wang (Beihang University, China)

P04.21 Design of Absorber Based on Hybrid Neural Network and Genetic Algorithm

Jinghao Xiao, Zhu Min and Bo Lei (Jinling Institute of Technology, China); Yi Wang (Nanjing University of Aeronautics and Astronautics, China)

P04.22 A 220 GHz High Efficiency Balanced Frequency Doubler with Compact Band-Stop Filter

Jianfeng Shi, Zhongming Kang, Shuang Li, Qihao Zhang and Zhe Chen (Yunnan University, China)

P04.23 Design of a Compact Ku-Band LTCC Bandpass Filter Using Vertically Distributed Resonators

Zhanbo Wu, Bo Yuan and Gaofeng Wang (Hangzhou Dianzi University, China)

P04.24 A Miniaturized High Selectivity Bandpass Filter with Controllable Transmission Zeros in LTCC Technology

Penghui Su, Bo Yuan, Zhanbo Wu, Qinhao Wen, Kanglong Zhang and Gaofeng Wang (Hangzhou Dianzi University, China)

P04.25 Innovative Unit Cell Design for RIS: Enhancing 5G Communication

Tayyab Hameed and Tao Su (Xidian University, China); Muneeb Ullah and Salman Alam (Xidian University, Xi'an, China); Bian Wu (Xidian University, China)

P04.26 Terahertz-Enhanced Machine Learning Framework for Bioactivity Prediction of CDK4 Inhibitors

Ze Wang (Anhui University, China); Ziqiang Xu (Anhui University); Chenzhi Tang, Yuxian Zhang, Kaijie Wu and Zhixiang Huang (Anhui University, China)

P04.27 Rotman Lens Fed High Gain Multibeam Series-Feed Antenna Array Based on Through Glass via Technology at W-Band

Haonan Wu, Ji-Wei Lian and Dazhi Ding (Nanjing University of Science and Technology, China)

P04.28 Design of an RF Self-Interference Cancellation Circuit for Shared-Antenna Transceivers

Yiding Wang, Yaoyao Li, Houpu Xiao, Haobo Geng and Ruibo Gong (Beihang University, China)

P04.29 Study on Incremental Radar Track Classification Based on the TCN-TTT-Transformer Architecture

Tingyu Zhou (Nanjing University of Science and Technology, China); Hao Wang (Nanjing University of Science & Technology, China)

P04.30 An Enhanced Radar Target Detection Method Based on Low-Threshold CFAR and 2D-CNN

Bingjun Zhou (Nanjing University of Science and Technology, China); Hao Wang (Nanjing University of Science & Technology, China)

P04.31 Design of Low-Loss BCB-Based FOWLP Interconnections at W-Band for CPO Applications

Li Mingxuan (Shanghai Jiaotong University, China); Yin-Shan Huang and Liang Zhou (Shanghai Jiao Tong University, China); Ziqiang Li (China)

P04.32 A Compact High-Power Receiver for Wireless Power Transfer

Yicen Li (Xidian University, China)

P04.33 A Flat-Topped Beam-Scanning Dielectric-Filled Rectangular Waveguide Leaky-Wave Antenna Based on 3D Printing Technology

Zhaoqian Du and Yunjie Geng (Beijing Jiaotong University, China)

P04.34 Design of a Wideband Dual-Polarized Antenna for VHF/UHF Applications

Yihang Chen (Xidian University, China)

P04.35 A High-Power Tolerant All-Metal Transmitarray for Polarization Conversion

Zepeng Cao, Hao Li and Gaosheng Li (Hunan University, China)

P04.36 Mixed-Precision LU Factorization Acceleration for the Method of Moments

Juncong Feng, Peng Hou, Junjie Wang, Xun-Wang Zhao and Zhongchao Lin (Xidian University, China)

P04.37 A Neural Network Method for Rapid RCS Prediction and Compensatory Reconstruction of Slotted Targets

Hao Junjie (Xi'an University of Electronic Science and Technology, China); Peng Hou, Xun-Wang Zhao and Zhongchao Lin (Xidian University, China)

P04.38 Far-Field Radar Cross Section Determination Using near-Field ISAR Imaging with Cyclic Convolution and Fast CLEAN

Wei-qun Wu, Yi-Xuan Zhang and Xiao-kun Zhang (西安电子科技大学, China)

P04.39 Design of a Terahertz Staggered Double-Vane Slow-Wave Structure

Hongjing Li (Aerospace Information Research Institute, Chinese Academy of Sciences, China & School of Electronic, Electrical and Communication Engineering, University of Chinese Academy of Sciences, China); Wenxin Liu (Aerospace Information Research Institute, Chinese Academy of Sciences); Zhihao Jin and Sihan Lu (Aerospace Information Research Institute, Chinese Academy of Sciences, China); Zhiqiang Zhang (Aerospace Information Research Institute, Chinese Academy of Sciences)

P04.40 Novel Ka-Band Slot Array Antenna Based on Ridge Gap Waveguide

Jiong Chen, Jinping Yang, Yiming Tang, Haobin Wu, Yin Ji, Erlei Chen, Lina Duo and Can Xu (Nanjing University of Posts and Telecommunications, China)

P04.41 A Machine Learning-Based Metasurface Inverse Design to Achieve Target Negative Permeability

Ruizhe Hou, Minghao He, Jiangcheng Niu and Yuxiang Wang (China University of Mining and Technology, China); Abdenasser Lamkaddem (Universidad Carlos III de Madrid (UC3M), Spain); Danilo Brizi (University of Pisa, Italy); Dmitry Kholodnyak (Saint Petersburg Electrotechnical University LETI, Russia); Cancan Rong (China University of Mining and Technology, China)

P04.42 Differentially-Fed Dual-Polarized Microstrip Antenna with Enhanced Bandwidth

Liu Yongsheng, Wang Shuo and Zhiya Zhang (Xidian University, China)

P04.43 A Sparse Linear Array Synthesis Method Based on Parallel Neural Networks

Wang Shuo, Xie Wei and Zhiya Zhang (Xidian University, China)

P04.44 Adaptive Localization Method for Distributed Radar Clusters Based on Localization Uncertainty Prediction

Jiacheng Dai (Zhejiang University, China); Yuting Wu (Shanghai Aerospace Electronic Technology Institute, China); Peiyong Lin (Jiangsu University of Science and Technology, China); Jun Tang and Jiangtao Huangfu (Zhejiang University, China)

P04.45 Joint AoA and Frequency Estimation Based on Microwave Photonic Arrays

Hailong Hou and Shuguo Xie (Beihang University, China); Yumo Tian (Hefei Innovation Research Institute of Beihang University, China); Tianheng Wang (Beihang University, China)

P04.46 Multi-Label RF Signal Classification for Optical Undersampling down-Conversion Receiver Using EfficientNet-B0 with STFT and SpecAugment

Guangliang Chen (Beihang University, China); Fanbo Meng (Beijing University of Aeronautics and Astronautics, China); Shuguo Xie and Tianheng Wang (Beihang University, China); Yumo Tian (Hefei Innovation Research Institute of Beihang University, China)

P04.47 Physics-Informed Multimodal 1D-CNN for State-Driven Extended ICEM Parameterization of Electro-Hydraulic Controllers

Fanbo Meng (Beijing University of Aeronautics and Astronautics, China); Guangliang Chen (Beihang University, China); Shiyong Wang (Beijing University of Aeronautics and Astronautics, China); Shuguo Xie (Beihang University, China); Yumo Tian (Hefei Innovation Research Institute of Beihang University, China); Tianheng Wang (Beihang University, China)

P04.48 Time-Frequency Fusion Network for Electromagnetic Interference Recognition in GNSS Receivers

Meiyuan Zheng (Beihang University, China); Mengnan Zhang (China); Zhenzhen Peng (Beihang University, China)

P04.49 Structural Design and Environmental Adaptability Analysis of GNSS Occultation Detector Antenna

Rui Guo and Fei Xie (China)

P04.50 Metal Integrated Suspended Line Based 180° Filtering Couplers and 2×4 Filtering Butler Matrix with Separate Electric and Magnetic Coupling Paths

Weiqi Liu (Tianjin University, China); Yi WU (Tianjin University, China & Yi WU, China); Kaixue Ma (Tianjin University, China)

P04.51 Four-Point Bending Finite Element Analysis of SiC and Al₂O₃ Ceramic Substrates for IGBT Modules

Ziyi Peng (Anhui University, China); Songlin Wei (Xiamen Ocean Vocational College, China); Na Bai and Naixing Feng (Anhui University, China)

P04.52 TSH-NMPSO-Based Multi-Objective Optimization of an Omnidirectional Monopole Antenna

Ming Chen (Foshan university, China); Jin-Peng He (FoShan University, China); Zi-Liang Lin (Foshan university, China); Peng-Fei Qin (Foshan University, China); Jia-Jun Liang (Yulin Normal University, China); Guan-Long Huang (Foshan University, China)

P04.53 Dual-Band Frequency-Fixed Beam-Scanning Leaky-Wave Antenna for Full-Space Coverage

Tongxu Liu and Jun Hong Wang (Beijing Jiaotong University, China)

P04.54 A Polarization-Reconfigurable Patch Antenna Based on a Compact Y-Shaped Feeding Network

ZhenHua Wu and Jian-Ping Guo (South China Normal University, China); Wen Ding (Guangdong Shenglu Telecommunication Technology Co., Ltd., China); Jingtao Zeng (Guangdong Shenglu Telecommunication Technology Company, China)

P04.55 A Compact Ultra-Wideband Vivaldi Antenna for Underwater GPR

Yue Zhang, Fuchun Li, Haiqin Lin and Jisheng Tong (GuangXi University, China)

P04.56 A Millimeter-Wave Low-Sidelobe Slot Antenna Based on Rectangular Waveguide

Wentao Zhuang (Xidian University, China); Wanyi Cui (西安电子科技大学, China); Zhiya Zhang (Xidian University, China)

P04.57 Shared-Aperture MIMO Antenna Covering Sub-6 GHz and Millimeter-Wave for 5G Mobile Handsets

Wenkang Tang (Anhui University, China)

P04.58 A Low-Profile Dual-Polarized Millimeter-Wave Microstrip Patch Array with Wide-Angle Scanning

Maolin Yao (Anhui University, China)

P04.59 Optimization Method of Absorbing Honeycomb Structure Based on Intelligent Computing

Shennan Guo, Wei He, Yan Wang, Shuhang Yi, Haotian Zhou, Yi Tian, Qinyi Dong and Zhihe Xiao (National Key Laboratory of Scattering and Radiation)

P04.60 An Ultra-Wideband MIMO Conformal Loop Antenna

Rong-Rong Luo, Ying-Xuan Huang, Le-Yan Shen, Guan-Long Huang, Xian-Hui He, Rui-Sen Chen and Qiang Shao (Foshan University, China); Jia-Jun Liang (Yulin Normal University, China); Jingtao Zeng (Guangdong Shenglu Telecommunication Technology Company, China)

Monday, August 24 10:15 - 12:15

S27: PA and Linerization

Room A

Chairs: Renlong Han (Nanjing University of Aeronautics and Astronautics, China), Jingyuan Zhang (Nanjing University of Aeronautics and Astronautics, China)

10:15 *Research on Reconfigurable Multi-Mode Filtering CMOS Power Amplifier Chips (Invited)*

Yongle Wu and Zhuoyin Chen (Beijing University of Posts and Telecommunications, China); Shuchen Zhen (Beijing University of Posts and Telecommunications & School of Integrated Circuits, China); Xiaopan Chen and Weimin Wang (Beijing University of Posts and Telecommunications, China)

10:35 *Error-Driven Dynamic Classification for Digital Predistortion of RF Power Amplifiers*

Hao Chang (University of Science and Technology of China, China); Renlong Han (Nanjing University of Aeronautics and Astronautics, China); Qianqian Zhang (USTC, China); Junsen Wang (University of Science and Technology of China & Eastern Institute of Technology, China); Chengye Jiang and Falin Liu (University of Science and Technology of China, China)

10:50 *Gated Dynamic Generalized Memory Polynomial for Digital Predistortion of RF Power Amplifiers Under Dynamic Transmission Configurations*

Junsen Wang (University of Science and Technology of China & Eastern Institute of Technology, China); Qianqian Zhang (USTC, China); Chengye Jiang (University of Science and Technology of China, China); Renlong Han (Nanjing University of Aeronautics and Astronautics, China); Hao Chang (University of Science and Technology of China, China); Kang Zhou (Eastern Institute of Technology, Ningbo, China); Falin Liu (University of Science and Technology of China, China)

11:05 *A Low-Complexity DPD Method with Sidelobe Correction for Fully-Connected Hybrid Beamforming Transmitters*

Renlong Han, Jingyuan Zhang and Si-Ping Gao (Nanjing University of Aeronautics and Astronautics, China)

11:20 *A Monte Carlo Elemental Gradient Descent Algorithm for Accelerated Load-Pull Analysis*

Rui Hua, Wen Fan, Tiancheng Zhang, Huaguang Bao and Dazhi Ding (Nanjing University of Science and Technology, China)

11:35 *A Low-Complexity Gated Basis-Weighting Model for Behavioral Modeling of RF Power Amplifiers*

Fang Shuxian and Jiaqian Wang (University of Science and Technology of China, China); Chengye Jiang (College of Electronic Engineering, National University of Defense Technology); Falin Liu (University of Science and Technology of China, China)

11:50 *A Curved-Corner Gradient-Linewidth Planar Spiral Inductor: Design, Fabrication, and Simulation*

Ziyue Wang (Qingdao University, China); Taixin Zhang (青岛大学, China); Yifei Zhang (Qingdao University, China)

Monday, August 24 10:15 - 12:15

S28: Radiation and Scattering Simulation

Room B

Chairs: Lijie Xu (Nanjing University of Posts and Telecommunications, China), Yang Bao (Nanjing University of Posts and Telecommunications, China), Rongrong Xu (China Aerospace International Holdings Limited, China), Bo Li (NJUPT, China)

10:15 *Tightly Coupled Antenna Array Based on MEFA Technology for Millimeter-Wave Applications (Invited)*

Jiaxu Mu and Lijie Xu (Nanjing University of Posts and Telecommunications, China); Feng Huang and Bo Li (NJUPT, China); Rongrong Xu (China Aerospace International Holdings Limited, China)

10:35 *Wideband EM Scattering Analysis Based on H-Matrix Algorithm*

Jianhao Cai, Yuting Shen, Yan Wang and Yang Bao (Nanjing University of Posts and Telecommunications, China)

10:50 *Co-Simulation Design of a Nonreciprocal Spatial-Control Unit Cell Based on an Active Quasi-Circulator*

Zhewen Li and Yumei Chang (Nanjing University of Posts and Telecommunications, China)

11:05 A Compact X-Band Filter Chip Using Copper-Based 3D Printing Micromachining Technology

Peng Chen and Zhitao Ju (Nanjing University of Posts and Telecommunications, China); Feng Huang (Nanjing University of Posts and Telecommunications, China)

11:20 A Design Method of Quasi-Elliptic Lowpass Filter Based on OS-RCLC Structure and Its Implementation Using Micro-Coaxial Transmission Line Technology

Haobin Wu, Jinping Yang, Lijie Xu, Xiuyun Lu, Lina Duo and Can Xu (Nanjing University of Posts and Telecommunications, China)

11:35 A Compact Cosecant-Squared Beam Antenna Array with Low Sidelobe Based on E-Field Simulation and Optimization

Peng Xu (Jiangsu Maritime Institute, China); Yan Dong (Nanjing University of Information Science and Technology, China); Xiao Cai (Nanjing University of Information Science & Technology, China)

11:50 A New Automated Modeling and Simulation Tool for Waveguide Rotman Lenses

Can Xu, Lina Duo, Jinping Yang, Haobin Wu, Yin Ji and Erlei Chen (Nanjing University of Posts and Telecommunications, China)

Monday, August 24 10:15 - 12:15

S29: Microwave and Metamaterial Devices

Room C

Chair: Qingsheng Zeng (Nanjing University of Aeronautics and Astronautics, China)

10:15 Electromagnetic Modeling and Efficient Simulation for Three-Dimensional Textile Devices (Invited)

Menglin Zhai, Weiqi Bian and Quanming Yang (Donghua University, China); Rui Pei (Xi'an Jiaotong-Liverpool University, China); Wei Bing Lu (Southeast University, China)

10:35 A Compact Four-Port UWB MIMO Antenna with Adaptive WLAN Band-Notch Reconfiguration for Medical IoT and WBAN Applications

Shenxu Wang (Nanjing University of Aeronautics and Astronautics, China); Jiarui Chen (Southern University of Science and Technology, China); Zexi Song (Nanjing University of Aeronautics and Astronautics, China); Qingsheng Zeng (Communications Research Centre Canada, Canada); Liangliang Liu and Zhuo Li (Nanjing University of Aeronautics and Astronautics, China)

10:50 Optimised Electrode Design for High-Bandwidth FBAR Resonators in the N79 Band

Qingsheng Zeng (Nanjing University of Aeronautics and Astronautics, China); Yanfeng Liang and Hui Liu (Guangdong Polytechnical Normal University, China); Jing Li (Eahison Communication CO. LTD Foshan, China)

11:05 Design of N79 Band Low Noise Amplifier Based on SOI CMOS Technology

Qingsheng Zeng (Nanjing University of Aeronautics and Astronautics, China); Haijian Zhao and Hui Liu (Guangdong Polytechnical Normal University, China); Jing Li (Eahison Communication CO. LTD Foshan, China)

11:20 Joint Design of Angle-Selective Surface and Transmissive Reconfigurable Intelligent Surface for Simultaneous Spatial Filtering and Beamforming

Qingsheng Zeng (Nanjing University of Aeronautics and Astronautics, China); Xiongying Liu (South China University of Technology, China); Jing Li (Eahison Communication CO. LTD Foshan, China); Peng Yuan (South China University of Technology, China)

11:35 A Miniaturized Dual-Polarized Angle Selective Surface at X-Band

Qingsheng Zeng (Nanjing University of Aeronautics and Astronautics, China); Xiongying Liu (South China University of Technology, China); Jing Li (Eahison Communication CO. LTD Foshan, China); Fengchao Zhou (South China University of Technology, China)

11:50 Electromagnetic Skin: Empowering Future Intelligent Electromagnetic Interfaces

Qingsheng Zeng (Nanjing University of Aeronautics and Astronautics, China); Jing Li (Eahison Communication CO. LTD Foshan, China); Zhuan Li (Central South University, China)

12:05 Wideband Low-Scattering Frequency Selective Surface with in-Band Transmission

Jizhong Wang (Nanjing Normal University, China); Dongxu Yu (Nanjing Research Institute of Electronic Engineering); Jingzhan Shi, Qiang Liu, Na Zhang and Yiping Wang (Nanjing Normal University, China)

Monday, August 24 10:15 - 12:15

S30: Nonlinear Circuits and Antennas

Room D

Chairs: Yu Jian Li (Beijing Jiaotong University, China), Yonghao Jia (Southeast University & State Key Laboratory, China), Fan Wu (Southeast University, China)

10:15 A Millimeter-Wave Simple Gain Reconfigurable Antenna Array with Scenario Adaptability

Xin Bu, Yu Jian Li and Jun Hong Wang (Beijing Jiaotong University, China)

10:30 Discrete Dispersion Modulation on a Single-Conductor Goubau Line for Realizing Beam-Scanning Antennas

Shiquan Wang (Nanyang Technological University, Singapore)

10:45 Design of a Reflector Antenna Integrated with Solar Panels

Maoyuan Sun and Qian Chen (Anhui University, China)

11:00 A Design of an Airborne Knife-Shaped Antenna for the C-Band

Zhihui Wang (Anhui university, China); Lei Qian, Jiebing Chan, Haoxuan Li and Luyu Zhao (Anhui University, China)

11:15 Circular Shaped Antenna Array Design for Drone Wireless Systems

Zaheer Ahmed Dayo (Huanggang Normal University, P.R China, China); Permanand Sothar (Mehran University of Engineering and Technology Jamshoro Sindh Pakistan, Pakistan); Ahmed Jamal Abdullah Al-Gburi (Asia Pacific University, Jalan Teknologi,, Malaysia); Zhonglin He (Huanggang Normal University, China)

11:30 A Flexible Dual-Band Wearable Bowtie Antenna Based on Artificial Magnetic Conductor for WBAN Applications

Li Wenjie (Nanjing University of Aeronautics and Astronautics, China)

11:45 ME-PML Implementations for Efficient Leapfrog Complying-Divergence Implicit FDTD Method

Anhong Yang and Yong-Dan Kong (South China University of Technology, China)

Monday, August 24 13:30 - 15:30

P05: Poster Session 5

Room: Poster & Exhibition Area

P05.1 Group Theory in Singular Optics

Jie Yang (Air force engineering university, China); Xuezhi Zheng (Katholieke Universiteit Leuven, Belgium); Jiafu Wang (Air Force Engineering University, China)

P05.2 Polarization Topology Engineering with Planar Chiral Metasurfaces

Zi-Lan Deng (Jinan University, China)

P05.3 Single-Carrier ISAC via Active Metasurfaces with High-Precision Complex-Domain Control

Yunfei Liu, Yueyi Yuan, Guohui Yang and Kuang Zhang (Harbin Institute of Technology, China)

P05.4 Design of a Non-Uniform Waveguide Slot Array with Cosecant Squared Pattern Using Genetic Algorithm Option

Xie Wei, Liu Yongsheng and Zhiya Zhang (Xidian University, China)

P05.5 Electrical and Thermal Design of Millimeter-Wave MIMO Heatsink Antenna Arrays

Bowen Xiao, Qian Chen, Jizhi Feng and Zhixiang Huang (Anhui University, China); Yang Lixia (Jiangsu University, China); Yingsong Li (Anhui University, China)

P05.6 Parametric Scattering Model for Coupled Chaff Clouds

Lu Xu and Guo Kun-yi (Beijing Institute of Technology, China); Xin-Qing Sheng (School of Information and Electronics, Beijing Institute of Technology, China)

P05.7 A Compact Circularly Polarized Dual-Arm Spiral Antenna with GCPW-to-SIW Slot-Coupled Differential Feeding for 77 GHz Automotive Radar

Jiajia Long, Qian Chen, Zhang Yan and Zhixiang Huang (Anhui University, China); Yang Lixia (Jiangsu University, China); Yingsong Li (Anhui University, China)

P05.8 A Fast Finite Element Mesh Generation Method for 2.5D Stacked Structures

Hantao Zhou (Xidian University, China); Wu Haoxiang and Chang Jihai (Xi'an University of Electronic Science and Technology, China); Zhongchao Lin and Xun-Wang Zhao (Xidian University, China)

P05.9 5G Metal-Frame Smartphone MIMO Antenna with Ultra-Wide Band Performance

Wu Chao (Anhui University, China)

P05.10 Analysis of Cable Coupling Characteristics Inside Ammunition Depots Under Strong Electromagnetic Pulses

Jiayu Liu (Xi'an University of Electronic Science and Technology, China); Xinbo He and Bing Wei (Xidian University, China)

P05.11 A Dual-Polarized Metasurface Antenna Fed by Integrated Substrate Gap Waveguide

Chengyu Deng, Hong Yuan, Chuanzhen Wang and Wuzhou Xiao (Yunnan University, China)

P05.12 Multi-Band Harmonically Enhanced Electromagnetically Induced Transparency-like on Metamaterials

Yin Fengzhi, Meichen Liu, Yueyue Fan and Renxia Ning (Huangshan University, China)

P05.13 Wideband Circularly Polarized Folded Transmitarray Antenna

Mengru Jia and Jun Hong Wang (Beijing Jiaotong University, China)

P05.14 A High-Gain and Wide-Angle Scanning Leaky-Wave Antenna Based on Grid-Shaped SIW-SSPP

Mingxu Liu and Jun Hong Wang (Beijing Jiaotong University, China)

P05.15 Efficient Field-Circuit Coupling Method for Transient Electromagnetic-Thermal Simulation of Integrated Circuits and Packages

Chi Zhang, Shunxiang Lan and Min Tang (Shanghai Jiao Tong University, China)

P05.16 High-Efficiency Multi-Functional Leaky-Wave Antenna Based on Multi-Modulation of Quasi-One-Dimensional Structure

Chunfeng Fan and Ke Gong (Xinyang Normal University, China)

P05.17 GCF-Net: A Dual-Branch Gated Collaborative Fusion Network for Electromagnetic Inverse Scattering

Li ZeJi, Peng Han and Jianying Wang (South China Normal University, China)

P05.18 CUDA-Based Parallel PO-EEC for Efficient Electromagnetic Scattering Analysis

Cai Haizhen (Beijing Institute of Technology, China); Jiuxiang Liu (Institute for Radio Frequency Technology and Software, School of Integrated Circuits, China); Guo Kun-yi (Beijing Institute of Technology, China); Xin-Qing Sheng (School of Information and Electronics, Beijing Institute of Technology, China)

P05.19 Modeling and Sensitivity Analysis of Semiconductor Light Source Effects on Fiber Optic Current Transformers

Yinting Jin (University of Hong Kong, Hong Kong)

P05.20 Deep Optimization of GPU Accelerated Parallel MLFMA for Electromagnetic Scattering by Complex Objects

Han Liu, Wei-Jia He and MingLin Yang (Beijing Institute of Technology, China); Xin-Qing Sheng (School of Information and Electronics, Beijing Institute of Technology, China)

P05.21 Recent Developments of Narrow-Clearance Mobile Terminal Antennas: A Review

Tian-hao Chong (Xidian University, China); Jia-Qi Zhu (Xidian University); Jian Li and Ying Liu (Xidian University, China)

P05.22 Compact Center-Fed Substrate-Integrated Cavity Array Antenna Using High-Order Resonating Modes

Jingqi Yin, Yinbo Zhao and Zengdi Bao (Beijing Institute of Technology, China)

P05.23 Beamforming Antenna with Cosecant-Squared Radiation Pattern Designed on Hybrid Structure of SIW and Half-Mode SIW

Jiaqi Liang and Jun Hong Wang (Beijing Jiaotong University, China)

P05.24 Research on Drone anti-Offset Wireless Charging System Based on Non-Equidistant Coil Optimization

Songlin Chen and Zhengwang Fu (China University of Mining and Technology, China); Zhenyu Zhao (National University of Singapore, Singapore); Montie Vitorino (Federal University of Campina Grande, Brazil); Polina Kapitanova (ITMO University, Russia); Cancan Rong (China University of Mining and Technology, China)

P05.25 TDR Reconstruction Method for High-Loss Transmission Channels

Jiefeng Zhou and Si-Ping Gao (Nanjing University of Aeronautics and Astronautics, China)

P05.26 Correction Method for Corner and Edge Singularities of Planar Metallic Structures in Non-Uniform FDTD Meshes

Jian Han and Wang Kunyi (西安电子科技大学, China); Xun-Wang Zhao and Zhongchao Lin (Xidian University, China)

P05.27 An Electromagnetic-Transient Thermal-Displacement Coupled Simulation Method for FSS Structures

Zelong Tan (Ningbo University, China); Jian Wang (University of Ningbo, China); Zhaoyang Liu (Ningbo University, China)

P05.28 An Active Metasurface Antenna for Independent Control of Radiation and Scattering

Lin Zhu, Xueyun Han and Wei Li (Henan Normal University, China)

P05.29 Research on Electromagnetic Scattering Suppression Based on Optical Transparent Microwave Absorbers

Xin Gao (The Research Institute for Special Structures of Aeronautical Composite AVIC); Qingdong Zhang, Meng Liu and Pengfei Jia (The Research Institute for Special Structures of Aeronautical Composite AVIC, China); Peng Li (Shanghai Rongke Special Equipment Co., Ltd., China)

P05.30 A Deep Learning Method for Radar Cross Section Prediction of Bodies of Revolution Based on NURBS Parametric Modeling

Zhipeng Huang (Guilin University Of Electronic Technology & Guangxi Academy of Artificial Intelligence, China); Ge Meng and Zhikun Guo (Guilin University Of Electronic Technology, China); Jinjun Mo (Guilin University of Electronic Technology, China)

P05.31 Field-Circuit Co-Simulation of Lightning EMP Coupling into Slotted Composite Shielding Enclosures

Xiang Zhang, Yu Tian, Qiang Zhang and Zheng-Yu Huang, hzy (Nanjing University of Aeronautics and Astronautics, China)

P05.32 Finite-Band Coherent Imaging of Two Point Scatterers: Amplitude Interaction and Resolution

Ke Chen (Beihang University, China); Nan Wu (701 Research Institute, China); Jinzu Ji (Beihang University, China)

P05.33 Time-Frequency Electromagnetic Response Fusion Network for Fault Diagnosis of Waterjet Propulsion Device Control Systems

Tianyu Gao and Cheng Zhang (Harbin Institute of Technology, China); Zhengmao Qiu (Shanghai Marine Equipment Research Institute, China)

P05.34 Application of FCC-FDTD to Field-to-Wire Coupling Analysis of Parallel Cables Above a Ground Plane

Yiwen Zhang and Zongfei Zhou (Beijing University of Aeronautics and Astronautics, China); Guangzhi Chen (Beihang University, China); Boyan Cui and Yaru Zhang (Beijing University of Aeronautics and Astronautics, China)

P05.35 Efficient Parametric Modeling and Analysis of Sea- Surface Electromagnetic Scattering Based on Three- Parameter BRDF Model

Shuxia Jiang (Beijing Institute of Technology, China); Qingmeng Yang (北京理工大学, China); Yuan Mou (Beijing Institute of Technology, China); Xin-Qing Sheng (School of Information and Electronics, Beijing Institute of Technology, China)

P05.36 Electromagnetic-Aware Lightweight Fault Diagnosis for Mechanical Equipment Based on a Hybrid Compression Mechanism

Tianyu Gao, Xiangrun Zhang and Zihan Wang (Harbin Institute of Technology, China); Zhenyu Zhao (National University of Singapore, Singapore)

P05.37 A System Design Method for RF-Field-Strength-Aware Navigation of Autonomous Mobile Robots

Ziyi Chen (Beijing University of Aeronautics and Astronautics, China); Guangzhi Chen and Youlong Weng (Beihang University, China)

P05.38 Impact of Mesh Generation Strategies on High-Frequency RCS Simulations for Complex Targets

Yue Hu (Beihang University, China); Nan Wu (701 Research Institute, China); Jinzu Ji (Beihang University, China)

P05.39 XGBoost-Enhanced Electromagnetic-Ultrasonic Coupling for Implantable Battery State-of-Charge Assessment

Ren Xuancheng and Zhenyu Zhao (National University of Singapore, Singapore)

P05.40 Design of an X-Band FMCW Sea Surface Altimetry Radar Based on the CZT Algorithm

Shuming Jiang (Ningbo University, China); Jianjian Huo (University of Electronic Science and Technology of China, China); Yixin Wang (Ningbo University, China); Jian Wang (University of Ningbo, China)

P05.41 A DDM-PO Equivalent-Source Coupling Method for Radiation Analysis of Antenna Arrays on Electrically Large Platforms

Rui Hu, Li Xu, Bingqi Liu, Hao Wang, Hangxin Liu and Bin Li (University of Electronic Science and Technology of China, China)

P05.42 *Wide-Angle Scanning Dual-Circularly Polarized Phased Array Based on Metasurface for Ka-Band Satellite Communications*

Yuting Wu (Shanghai Aerospace Electronic Technology Institute, China); Peiying Lin (Jiangsu University of Science and Technology, China); Jiacheng Dai (Zhejiang University, China); Yuhuan Zhang (China); Yudong Zhang (Shanghai Aerospace Electronic Technology Institute, China); Jiangtao Huangfu (Zhejiang University, China)

P05.43 *MPI-Based Parallel Acceleration of the Physical Optics Method*

Gaogui Xu and Chunzhu Dong (China); Hongcheng Yin (Science and Technology on Electromagnetic Scattering Laboratory, China)

P05.44 *Design of a DC-8GHz Low Phase-Shift 6-Bit Digital Attenuator*

Yan Jiang and Hua Jinhao (Nanjing University of Posts and Telecommunications, China); Chen Hui and Yongrong Shi (Nanjing University of Aeronautics and Astronautics, China); Hualong Ji (Nanjing University of Posts and Telecommunications, China); Linping Feng (Shenzhen Technology University, China)

P05.45 *A Transformer-Based Performance Prediction Model for MMIC Design*

Jingyuan Zhang (Nanjing University of Aeronautics and Astronautics, China); Kunpeng Qiu (National University of Singapore, Singapore); Xu Yan (Harbin Institute of Technology (Shenzhen), China); Renlong Han and Si-Ping Gao (Nanjing University of Aeronautics and Astronautics, China)

P05.46 *Electromagnetic Scattering Testing and Stealth Performance Analysis of a Stealth Aircraft Model*

Ziqi Huang (Beihang University, China); Liang Peng (China); Yunpeng Ma (Beihang University, China)

P05.47 *Extracting Scattering Centers Based on CFAR Method for SAR Image of Sea Surface Target*

Jinlin Miao (中国舰船研究院, China); Liang Peng (China); Jinzu Ji (Beihang University, China)

P05.48 *Ultra-Wideband High-Precision Tunable RF Attenuator Chip Based on Gold Wire Bonding*

Yan Jiang, Haoyang Yin, Hualong Ji and JiaChen Qian (Nanjing University of Posts and Telecommunications, China); Chen Hui (Nanjing University of Aeronautics and Astronautics, China); Zhou Wenwei (Nanjing University of Posts and Telecommunications, China); Linping Feng (Shenzhen Technology University, China)

P05.49 *Physics-Guided Radar Cross Section Anomaly Detection and Data-Driven Analysis of Low-Observable Aircraft*

Yixin Ren (School of Aeronautic Science and Engineering Beihang University Beijing, China); Liang Peng (Wuhan Second Ship Design and Research Institute Wuhan, Hubei, China); Jinzu Ji (School of Aeronautic Science and Engineering Beihang University Beijing, China)

P05.50 *A Dual-Polarized Antenna Based on SIGW Feeding*

Jiangzhi Pan (Xi'an University of Electronic Science and Technology, China); Liu Yongsheng and Zhiya Zhang (Xidian University, China)

P05.51 *Research on Calculation of Electromagnetic Scattering Characteristics of Flying Wing Aircraft with Different Sizes*

Jiahao Liu (Buaa, China); Peilin Huang (Beihang University, China); Nan Wu (701 Research Institute, China)

P05.52 *Hard-Constrains Physics-Informed Neural Networks for Electromagnetic Inverse Scattering*

Yanming Zhang (Southeast University, Hong Kong)

P05.53 *A Ray-Tracing-Anchored Real-Map Method for Low-Altitude UAV Air-to-Ground Blind-Zone Analysis*

ChangNing Zhou and ZhongXin Deng (XiangTan University, China); Fei Ye (Hunan Institute of Surveying and Mapping Science and Technology, China)

P05.54 *Design of a Broadband Shielded Second-Order Wilkinson Power Divider with Metallic Post Resonance Suppression*

Zhenhua Ye (Xi'an University of Electronic Science and Technology, China); Fantong Kong and Zhiya Zhang (Xidian University, China)

P05.55 *A Dual-Band 2-Bit Reflective Coding Metasurface for Beam Deflection*

Zihui Liu, Yuanyuan Wang, Yufeng Chen, Yinsheng Wang, Jingwei Xu, Guisheng Liao, Lan Lan and Rui Xi (Xidian University, China)

P05.56 *Design of Spectrum-Tunable Metamaterial Based on Hybrid Resonance*

Shihao Li (China ship development and design center); Junfeng Chen and Longying Guo (China Ship Development and Design Center, China)

P05.57 *Simulation and Optimization Design of a Bandpass Filter Based on Spoof Surface Plasmon Polaritons*

Hu Kongyi, Tinghui Zhang and Wangsheng Pang (Xihua University, China)

P05.58 *Target-Direction-Conditioned Interface Topology Design for Patch Antennas*

Junwei Cui and Xue-Song Yang (University of Electronic Science and Technology of China, China)

P05.59 Permittivity-Gradient-Enhanced U-Net for Electromagnetic Forward Modeling

Yuting Zhang, Kai Chen, Qing He and Yunyun Hu (Tongji University, China)

P05.60 FDTD Framework Based on MPI for Large-Scale Electromagnetic Problems

Hongyu Zhu (Dongshen Electromagnetic Technology (Chengdu) Co., Ltd., China); Zixuan Liu (COMAC Shanghai Aircraft Design & Research Institute, China); Pengfei Xie and Shasha Zhang (Dongshen Electromagnetic Technology (Chengdu) Co., Ltd., China)

Monday, August 24 13:30 - 15:30

S31: Implantable Wireless Charging and Monitoring

Room A

Chairs: Cancan Rong (China University of Mining and Technology, China), Ren Xuancheng (National University of Singapore, Singapore), Zhenyu Zhao (National University of Singapore, Singapore)

13:30 Design of a GaN-Based Class-E Inverter for Wireless Power Transfer Systems Targeting High-Power Implantable Medical Devices

Chengtao Wang and Xianzhong Tian (City University of Hong Kong Qingdao Research Institute, China); Deng Yuxuan (City University of Hong Kong, Hong Kong)

13:45 Real-Time Vital Sign Monitoring System Using Metamaterial-Based Sensors in IoT Applications

Van Linh Pham, Saiful Islam and Hyoungsuk Yoo (Hanyang University, Korea (South))

14:00 A Real-Time Wearable System for Obstructive Sleep Apnea Monitoring and Severity Classification Using HR and SpO2

Jingwen Zhang, Jinhang Zhang and Yongqing Wang (China University of Geosciences Beijing, China); Qisheng Zhang (China University of Geosciences(Beijing), China)

14:15 Structural Design and Optimization of Microfluidic Sensors for Glucose Concentration Measurement

Jiahe Guo, Chuhan Liang, Zhonghua Wu, Xiaoling Sun, Guolong Li and Xiangkun Kong (Nanjing University of Aeronautics and Astronautics, China)

14:30 Guidance of Focused Microwave Hyperthermia by Deep-Learning-Enabled Microwave-Induced Thermoacoustic Tomography

Xuanyu Wang (Shanghai Tech, China); Xiong Wang (ShanghaiTech University, China)

14:45 Electromagnetic Diffractive Neural Networks for Communications and Sensing

Qian Ma, Yuming Ning and Tie Jun Cui (Southeast University, China)

Monday, August 24 13:30 - 15:30

S32: mmWave Circuits and Arrays

Room B

Chairs: Ya Fei Wu (UESTC, China), Manting Wang (City University of Hong Kong, Hong Kong), Zhongqian Niu (University of Electronic Science and Technology of China, China)

13:30 Design of a Fundamental Mixer Based on Schottky Diode

Ge Liu, Yue He and Ren Zhou (China Academy of Engineering Physics, China); Jun Jiang (China Academy of Engineering Physics, China)

13:45 Design of Waveguide-Microstrip Transition Structure for 36~67 GHz Applications

Luo Zexu (China)

14:00 Design an Electronic Phase Shifter with Low Insertion Loss

Aming Zhao, Lin Meng and Hailong Li (University of Electronic Science and Technology of China, China); Jin Meng (Naval University of Engineering, China); Keqiang Wang (China)

14:15 A Low-Complexity 2-Bit Circularly Polarized Reflective Metasurface Element Using a Sectorial Patch with Reduced PIN Diodes

Xinyi Wang (Southeast University, China)

14:30 Research Progress on RCS-Controlled Planar Arrays

Lijie Chen (Huazhong University of Science and Technology & China Ship Development and Design Center, China); Zhaowang Cao (Huazhong University of Science and Technology, China); Gengjiang Yao (China Ship Development and Design center, China); Ling Miao (Huazhong University of Science and Technology, China); Long Xiao (China Ship Development and Design Center, China); Jianjun Jiang (Huazhong University of Science and Technology, China)

Monday, August 24 13:30 - 15:30

S33: EM Monitoring and Diagnosis

Room C

Chairs: Tianyu Gao (Harbin Institute of Technology, China), Yongqi Chang (Harbin Institute of Technology, China), Yang LI (Harbin Institute of Technology, China), Zhang Han (National University of Singapore, Singapore), Zhenyu Zhao (National University of Singapore, Singapore)

13:30 Accelerated SBR Method Based on the JAUMIN Framework for Antenna Isolation Analysis on Electrically Large Platforms

Hongxin Yu (The Institute of Computer Application, China Academy of Engineering Physics); Xuesong Meng and Lingyu Zhang (The Institute of Applied Physics and Computational Mathematics, China)

13:45 FDTD Simulation Method for Electromagnetic Scattering of Coupled Heterogeneous Strata and Dynamic Leakage in Buried Oil Pipelines

Haocheng Lu (China University of Petroleum, China)

14:00 Study on near-Field Electromagnetic Scattering Characteristics of Targets Based on SBR

Zhe Li (Xi'an University of Electronic Science and Technology, China)

14:15 Frame Hopping Method for Analysis of Broadband Electromagnetic Scattering of Uniformly Moving PEC Objects

Guomin Liu (Shanghai Jiaotong University, China); Gaobiao Xiao (Shanghai Jiao Tong University, China)

14:30 An Efficient Single Source Equivalence Principle Method for Solving Composite Objects

Hanru Shao (University of Electronic Science and Technology of China, China)

14:45 An XAI-Driven Hybrid CNN-Transformer Framework for Automated Gastrointestinal Cancer Classification

Manasa Reddy (Bharath Institute of Higher Education and Research, India)

15:00 Ultrabroadband Imaging Meta-Illusion via Composite Dispersion Tailoring

Tong Cai (空军工程大学, China); Hailin Huang (Air Force Engineering University, China)

Monday, August 24 13:30 - 15:30

S34: ISL Circuits and Systems

Room D

Chairs: Yongqiang Wang (Tianjin University, China), Yuefeng Hou (Tianjin University, China), Yi Wu (Tianjin University, China)

13:30 Millimeter-Wave CMOS Integrated Phased-Array ICs and Antennas (Invited)

Dixian Zhao (Southeast University, China)

13:50 Spectral-Envelope Analysis of Chebyshev-Accelerated Iterative Analytical Modeling for Multiconductor Transmission Line Field Coupling

Mingyue Gou and Yanzhao Xie (Xi'an Jiaotong University, China); Jun Guo (Xi'an Jiaotong University, China)

14:05 High-Efficiency Three-Layer All-Metal MISL X-Band Four-Way Traveling-Wave Power Combiner with Integrated Waveguide I/O

Peiyi Yu, Yongqiang Wang and Kaixue Ma (Tianjin University, China)

14:20 A High-Efficiency Class-F PA with Coupled-Line Matching Network Based on SISL Platform

Kaiyang Fu, Ningning Yan and Kaixue Ma (Tianjin University, China)

14:35 Design of Third-Order Quint-Band SIW Bandpass Filter Based on Suspended Loaded Resonators

Yang Yang and Shuyao Liu (China); Sun Liang (Chengdu Sheenst Technology Co. Ltd, China)

14:50 Design of a Low-Loss LTCC Bandpass Filter with Four Transmission Zeros

Qinhao Wen, Bo Yuan and Gaofeng Wang (Hangzhou Dianzi University, China)

Monday, August 24 15:45 - 17:45

S35: Intelligent EM Sensing

Room A

Chairs: Zhou Shu (Xidian University, China), Zhicheng Dong (Xidian University, China), Yongqing Wang (China University of Geosciences, China)

15:45 Research on Rapid Detection Methods for Antarctic Subglacial Lakes Based on Controlled-Source Ultra-Audio Magnetotellurics

Ruan Hongyu (China University of Geoscience Beijing, China); Keyu Zhou (Institute of Acoustics, Chinese Academy of Sciences); Qisheng Zhang (China University of Geosciences(Beijing), China); Yongqing Wang (China University of Geosciences Beijing, China)

16:00 Broadband Seismo-Electromagnetic Multi-Parameter Intelligent Cooperative Sensing System

Jinhang Zhang, Yongqing Wang and Jingwen Zhang (China University of Geosciences Beijing, China); Ruan Hongyu (China University of Geoscience Beijing, China); Qisheng Zhang (China University of Geosciences(Beijing), China)

16:15 Research on Microseismic Detection System Based on Internet of Things

Ziyang Wang (China University of Geoscience Beijing, China); Yongqing Wang (China University of Geosciences Beijing, China); Ruan Hongyu (China University of Geoscience Beijing, China); Jingwen Zhang (China University of Geosciences Beijing, China)

16:30 An Antarctic Subglacial Lake-Oriented Hybrid Networking Data Transmission System

Xinyan Hu, Jinhang Zhang, Yongqing Wang and Tianjun Sun (China University of Geosciences Beijing, China); Qisheng Zhang (China University of Geosciences(Beijing), China)

16:45 A 17-19-GHz LC VCO Embedded 8-Shape Inductor with Tuning-Free Explicit and Implicit Common-Mode Resonance Extension in 28-nm CMOS

Lei Zhou, Zhicheng Dong, Haohang Wang, Yangfan Zhang, Zhou Shu and Shubin Liu (Xidian University, China)

17:00 Microseismic Event Classification Based on a VGG Architecture

Wenjie Deng, Yongqing Wang and Tianjun Sun (China University of Geosciences Beijing, China); Ruan Hongyu (China University of Geoscience Beijing, China); Jinhang Zhang (China University of Geosciences Beijing, China); Qisheng Zhang (China University of Geosciences(Beijing), China)

17:15 Decoupled Rectified Flow Model with Line-Gated Mechanism for FMCW Radar Interference Mitigation

Jiabao Chen (Beijing University of Aeronautics and Astronautics, China); Guangzhi Chen and Youlong Weng (Beihang University, China); Yaru Zhang (Beijing University of Aeronautics and Astronautics, China)

Monday, August 24 15:45 - 17:45

S36: Microwave Imaging

Room B

Chairs: Naike Du (Beijing Institute of Technology, China), Xiuzhu Ye (Beijing Institute of Technology, China)

15:45 Advances in Electromagnetic Inverse Scattering and Through-Wall Radar Sensing (Invited)

Xiuzhu Ye (Beijing Institute of Technology, China)

16:05 *Engineering-Optimized Joint-GLMB for Real-Time Through-Wall Multi-Target Tracking*

Guangzhong Zhang, Naiké Du, Xiuzhu Ye and Yutong Gao (Beijing Institute of Technology, China)

16:20 *Lightweight Neural Network-Based Through-Wall Human Target Detection and FPGA Implementation*

Yutong Gao, Guangzhong Zhang, Naiké Du and Xiuzhu Ye (Beijing Institute of Technology, China)

16:35 *An Automatic Differentiation-Based Dipole Reconstruction Algorithm*

Kenan Wang (Beijing University of Aeronautics and Astronautics, China); Hui Xu (Beihang, China & Beihang University, China)

16:50 *Towards a Comprehensive Snowpack Scattering Model Coupling Volume and Surface Scattering in a Radiative Transfer Framework*

Weibo Yuan, Yuanhao Cao and Shurun Tan (Zhejiang University, China)

17:05 *SAR Imaging Jamming Based on Dual-Dimensional Phase Modulation of Digital Coding Metasurface*

Mengke Sun, Qun Yan Zhou, Huidong Li, Shuo Liu, Jun Yan Dai and Qiang Cheng (Southeast University, China)

17:20 *P-WSMWA: A Hybrid MPI+OpenMP Parallel Wideband Sherman-Morrison-Woodbury Algorithm for Electromagnetic Scattering Analysis*

Cao Sheng (Nanjing University of Aeronautics and Astronautics, China); Liu Jingjing (南京航空航天大学, China)

Monday, August 24 15:45 - 17:45

S37: Antenna and Microwave Devices

Room C

Chairs: Ziheng Ding (City University of Hong Kong, Hong Kong), Han Wang (City University of Hong Kong, Hong Kong), Xu Yan (Harbin Institute of Technology (Shenzhen), China)

15:45 *Wideband Self-Decoupled Integrated Loop MIMO Antenna Based on Multi-Mode Cancellation Method*

Libin Sun (Shanghai Jiao Tong University); Lin-Sheng Wu (Shanghai Jiao Tong University, China); Zhijun Zhang (Tsinghua University, China)

16:00 *A Flexible Coplanar Waveguide Broadband Miniaturized Positioning Antenna*

Hang Mei (Beijing Information Science & Technology University, China); Xiaoying Zuo (Beijing Information Science and Technology University, China); Mengxin He, Yajian Li, Jiawei Dong, Juntao Cao, Zelin Sun and Chunqian Zhang (Beijing Information Science & Technology University, China)

16:15 *A Compact and Flexible Pattern-Reconfigurable Patch Antenna for on- and off-Body Communication*

Yuman Liu (Chongqing University, China); Ziheng Ding, Jingyi Shi, Han Wang and Yongxin Guo (City University of Hong Kong, Hong Kong)

16:30 *Design of Compact, Dual-Band, Broadband Antenna for WiFi 8 and 6G Upper Mid-Band Applications*

Yaqing Yu and Ying Li (Chongqing University of Posts and Telecommunications, China)

16:45 *Spectrum-Shaped Wireless Transmission Based on Programmable Metasurfaces*

Jiachen Wang, Jun Yan Dai and Qiang Cheng (Southeast University, China)

Monday, August 24 15:45 - 17:45

S38: mmWave/THz Sources

Room D

Chairs: Wenxin Liu (AIRCAS, China), Ziran Zhao (Tsinghua University, China)

15:45 *High-Power-Capability and High-Power-Gain Switched Energy Storage Microwave Pulse Compressor Using a Switch Cavity Located near the Wave Node*

Cuiqin Xie and Wenli Liang (Anhui University of Applied Technology, China); Zijing Zhang (USTC, China); Weihao Liu (NUAA, China)

16:00 *A Parameter-Optimized FDTD Method for Reducing Numerical Dispersion in Debye Media*

Ying Huang and Yong-Dan Kong (South China University of Technology, China)

16:15 *P Well Boron Modulated Opposite Polarity Disturb in 2T SONOS Embedded Flash Cells*

Mou Yichun (City University of Hong Kong, China)

16:30 *Sub-Terahertz Polymer Dielectric Waveguides and the Transitions*

Xiaochun LI (Shanghai Jiao Tong University, China)

16:45 *Ultra-High-Speed UTC-PD for Terahertz Mixing*

Baile Chen (Shanghai Tech, China)

Program last updated on [15:57 Asia/Shanghai](#)