



青岛研究院
香港城市大学
City University of Hong Kong

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

Final Technical Program

August 21-24, 2026
Qingdao, China

Organizers



Co-Organizers



Technical Co-Sponsors



ACES-China 2026 Program at A Glance

Aug 21, 2026 (Friday)	14:30-18:00	Registration (Level 1, The Westin Qingdao West Coast)				
	7:30-18:00	Registration (Level 1, The Westin Qingdao West Coast)				
Aug 22, 2026 (Saturday)	Time	Main Venue (Grand Ballrooms 2 & 5, Level 3, The Westin Qingdao West Coast)				
	08:30-09:00	Opening Ceremony				
	09:00-09:40	Keynote 1: Information Metamaterials and Large Electromagnetic Models - Tie Jun Cui				
	09:40-10:20	Keynote 2: Perspective on Computational Electromagnetics Driven by Quantum Computing and Artificial Intelligence - Erping Li				
	10:20-10:50	Coffee/Tea Break				
	10:50-11:30	Keynote 3: Electromagnetic Computation: Advancements and Challenge - Jun Hu				
	11:30-12:10	Keynote 4: Test Technologies and Instruments for Integrated Circuits and 3D-Packaged Devices - Fushun Nian				
	12:10-13:30	Lunch				
	Time	Room A	Room B	Room C	Room D	Poster & Exhibition Area
	13:30-15:30	S01: AI for Antennas & Devices	S02: Meta for Communication and Sensing	S03: Multiphysics CEM and SIPI	S04: Advanced Numerical Methods in EM	P01: Part A: Student Paper Contest (P01.1~P01.35) Part B: Poster Session 1 (P01.36~P01.62)
	15:30-15:50	Coffee/Tea Break				
	15:50-17:50	S05: Antenna Design and Optimization	T01: 2026 Sino-Singapore Scientific Forum (Starts at 15:40; jointly organized by ACES-China)	S06: Multiphysical Metamaterial & Surface	S07: mmWave/THz Materials and Devices	
Aug 23, 2026 (Sunday)	18:30-20:30	Reception (The Eatery, Level 1, Four Points by Sheraton Qingdao, West Coast)				
	7:30-18:00	Registration (Level 1, The Westin Qingdao West Coast)				
	Time	Room A	Room B	Room C	Room D	Poster & Exhibition Area
	08:00-10:00	S08: RF Devices and Microsystems	S09: Antennas and Sensors for WBAN/IoT	S10: CEM and AI	S11: Meta for Wave Manipulation	
	10:00-10:20	Coffee/Tea Break				
	10:20-12:20	S12: Reconfigurable Meta & Antenna	T02: Electromagnetic Education	S13: Singular Meta-Optics	S14: Meta for Absorption and Shielding	P02: Poster Session 2
	12:20-13:30	Lunch				
	Time	Room A	Room B	Room C	Room D	Poster & Exhibition Area
	13:30-15:30	S15: Multiphysics Modeling and Integration	S16: AI for RF Inverse Design	S17: AI for EM Design	S18: Microwave/mmWave Arrays	P03: Poster Session 3
	15:30-15:50	Coffee/Tea Break				
	15:50-17:50	S19: mmWave/THz Measurement	S20: Large-Scale Array Modeling	S21: Advanced EM Simulation and Design	S22: RF Harvesting and SWIPT	
	18:30-20:30	Award Ceremony & Banquet (Grand Ballroom 1, Level 3, The Westin Qingdao West Coast)				
Aug 24, 2026 (Monday)	7:30 - 12:00	Registration (Level 1, The Westin Qingdao West Coast)				
	Time	Room A	Room B	Room C	Room D	Poster & Exhibition Area
	08:00-10:00	S23: Heterogeneous RF Packaging	S24: Microwave Absorbers and Low-RCS Antennas	S25: RF Energy Applications	S26: AI Enhanced RF Simulations	
	10:00-10:20	Coffee/Tea Break				
	10:20-12:20	S27: PA and Linearization	S28: Microwave and Metamaterial Devices	S29: Radiation and Scattering Simulation	S30: Nonlinear Circuits and Antennas	P04: Poster Session 4
	12:20-13:30	Lunch				
	Time	Room A	Room B	Room C	Room D	Poster & Exhibition Area
	13:30-15:30	S31: Implantable Wireless Charging and Monitoring	S32: EM Monitoring and Diagnosis	S33: mmWave Circuits and Arrays	S34: ISL Circuits and Systems	P05: Poster Session 5
	15:30-15:50	Coffee/Tea Break				
	15:50-17:50	S35: Intelligent EM Sensing	S36: Antenna and Microwave Devices	S37: Microwave Imaging	S38: mmWave/THz Sources	

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Electromagnetics Society Symposium
(ACES-China 2026)**

Final Technical Program

August 21-24, 2026

Organizers



Qingdao Research Institute

香港城市大學
City University of Hong Kong

Co-Organizers



南京航空航天大学
NANJING UNIVERSITY OF AERONAUTICS AND ASTRONAUTICS



哈尔滨工程大学
HARBIN ENGINEERING UNIVERSITY

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Technical Co-Sponsors



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

Organizers

City University of Hong Kong (CityUHK) Qingdao Research Institute

Applied Computational Electromagnetics Society (ACES)

Co-Organizers

Nanjing University of Aeronautics and Astronautics (NUAA)

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Applied Computational Electromagnetics Society (ACES)

Institute of Electrical and Electronics Engineers (IEEE)

IEEE Antennas and Propagation Society

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Welcome Message from the General Chairs

On behalf of the Organizing Committee, it is our great pleasure to warmly welcome you to the 2026 IEEE International Applied Computational Electromagnetics Society Symposium (ACES-China 2026), held in Qingdao, China, from August 21 to 24, 2026. The Organizing Committee has put together a comprehensive and engaging program to facilitate the exchange of ideas, research findings, and technological advances across the broad field of computational and applied electromagnetics. ACES-China 2026 brings together researchers, engineers, educators, and students from academia and industry, providing an important platform for technical exchange, interdisciplinary collaboration, and the exploration of emerging directions in electromagnetic science and technology.

To recognize outstanding achievements and encourage excellence across different career stages, ACES-China 2026 has established several symposium awards, including the Technical Excellence Award, Young Scientist Awards, and Best Student Paper Awards. Through these awards, we are pleased to honor distinguished technical contributions, recognize promising young researchers, and encourage the next generation of scientists and engineers in computational and applied electromagnetics.

This year's technical program features a rich combination of keynote speeches, oral and poster presentations, topical sessions, and special forums. The program encompasses a wide spectrum of cutting-edge topics, including computational electromagnetics, artificial intelligence for electromagnetic modeling and design, antennas and arrays, metamaterials and metasurfaces, RF and millimeter-wave/terahertz technologies, multiphysics modeling, signal and power integrity, heterogeneous RF packaging, electromagnetic sensing and imaging, wireless power transfer, and electromagnetic measurement and characterization.

In addition to the comprehensive technical and scientific program, ACES-China 2026 offers ample opportunities to experience the vibrant coastal city of Qingdao. Renowned for its beautiful seaside scenery, distinctive architecture, rich cultural heritage, and diverse cuisine, Qingdao provides an ideal setting for both professional exchange and social interaction. We hope you will take the opportunity to explore the city, reconnect with old friends, make new ones, and establish collaborations that extend well beyond the symposium.

We look forward to welcoming you all to ACES-China 2026 in the beautiful city of Qingdao!

Yongxin Guo, *General Chair, City University of Hong Kong*

Yujian Cheng, *General Co-Chair, University of Electronic Science and Technology of China*

Dazhi Ding, *General Co-Chair, Nanjing University of Science and Technology*

Lixin Guo, *General Co-Chair, Xidian University*

Yujian Li, *General Co-Chair, Beijing Jiaotong University*

Fushun Nian, *General Co-Chair, Ceyear Technologies*

Mingzhao Song, *General Co-Chair, Harbin Engineering University*

Xiuyin Zhang, *General Co-Chair, South China University of Technology*

Welcome Message from the TPC Chairs

On behalf of the Technical Program Committee (TPC), it is our great pleasure to welcome you to the **2026 IEEE International Applied Computational Electromagnetics Society Symposium (ACES-China 2026)**, held in Qingdao, China.

Thanks to the dedicated efforts of our TPC members and reviewers, we are proud to present a diverse and comprehensive technical program showcasing recent advances in computational and applied electromagnetics. This year, we received **710 paper submissions from 21 countries and regions**, of which **554 were accepted**. All submissions underwent a rigorous peer-review process, with careful evaluation of their technical quality, originality, and relevance to the ACES community.

The accepted papers will be presented across **38 oral sessions, 2 topical sessions, and 5 poster sessions**, providing ample opportunities for researchers, engineers, and students to exchange ideas, share their latest findings, and foster new collaborations.

In addition, **four distinguished experts** will deliver **keynote speeches** on emerging and impactful topics in electromagnetics and related technologies. To recognize outstanding contributions and encourage excellence across different career stages, ACES-China 2026 has established the **Technical Excellence Award, Young Scientist Awards, and Best Student Paper Awards**, honoring distinguished technical achievements, promising young researchers, and outstanding student research, respectively. The TPC received numerous applications for the **Best Student Paper Award**. Following a rigorous review and selection process, **35 papers** have been shortlisted to compete in the **Student Paper Contest**.

On behalf of the TPC, we extend our sincere appreciation to all contributing authors, TPC members, reviewers, session organizers, and session chairs whose dedication and hard work have made this technical program possible. We are also especially grateful to **ACES and IEEE AP-S** for their strong and continued support of the conference.

We hope that ACES-China 2026 will provide an inspiring platform for technical exchange, stimulating discussions, and new collaborations. We wish you a **fruitful, enjoyable, and memorable experience in Qingdao**.

TPC Chair:

Siping Gao, *Nanjing University of Aeronautics and Astronautics*

TPC Co-Chairs (in alphabetical order):

Andrey Bogdanov, Xiaoming Chen, Hui Chu, Jianqin Deng, Lei Ge, Wenhua Gu, Guanlong Huang, Hui Li, Mengmeng Li, Ying Li, Zhuo Li, Wei Lin, Yu Luo, Wei E.I. Sha, Yongrong Shi, Xianzhong Tian, Mingchun Tang, Xuchen Wang, Bian Wu, Fan Wu, Yafei Wu, Qi Wu, Yongle Wu, Yumao Wu, Yang Yang, Xiuzhu Ye, Kuang Zhang, Huapeng Zhao, Junming Zhao, Zhenyu Zhao

Organizing Committee

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Dazhi Ding, Nanjing University of Science and Technology

Lixin Guo, Xidian University

Yujian Li, Beijing Jiaotong University

Fushun Nian, Ceyear Technologies

Mingzhao Song, Harbin Engineering University

Xiuyin Zhang, South China University of Technology

Technical Program Committee Chair

Siping Gao, Nanjing University of Aeronautics and Astronautics (NUAA)

Technical Program Committee Co-Chairs

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Xiaoming Chen, Xi'an Jiaotong University

Hui Chu, Nanjing University of Science and Technology

Jianqin Deng, Ceyear Technologies

Lei Ge, Shenzhen University

Wenhua Gu, Nanjing University of Science and Technology

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Hui Li, Dalian University of Technology

Mengmeng Li, Nanjing University of Science and Technology

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Zhuo Li, NUAA

Wei Lin, Hong Kong Polytechnic University

Yu Luo, Tianjin University

Wei E.I. Sha, Zhejiang University

Yongrong Shi, NUAA

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Mingchun Tang, Chongqing University

Xuchen Wang, Harbin Engineering University

Bian Wu, Xidian University
Fan Wu, Southeast University
Yafei Wu, UESTC
Qi Wu, Beihang University
Yongle Wu, Beijing University of Posts and Telecommunications (BUPT)
Yumao Wu, Fudan University
Yang Yang, University of Technology Sydney
Xiuzhu Ye, Beijing Institute of Technology
Kuang Zhang, Harbin Institute of Technology
Huapeng Zhao, UESTC
Junming Zhao, Nanjing University
Zhenyu Zhao, National University of Singapore

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Women Scholar Chair:

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Zi He, Nanjing University of Science and Technology

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Mengru Yang, NUAA

Publicity Chairs:

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Jun Hui Ou, South China University of Technology

Jingchen Wang, Xi'an Jiaotong-Liverpool University

Xu Yan, Harbin Institute of Technology (Shenzhen)

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Qingzi Song, CityUHK Qingdao Research Institute

Ziji Wang, NUAA

Conference Secretariat

Renlong Han, NUAA

Xing Su, NUAA

Jingyuan Zhang, NUAA

Technical Program Committee Members

Mustafa Khalid Taher Al-Nuaimi
Yang Bao
Zengdi Bao
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Feng Liang
Shixiong Liang
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Changjun Liu
Changrong Liu
Fu Liu
Wei Hong Liu
Wenxin Liu
Zhong-Xun Liu
Neng-Wu Liu
Kwai-Man Luk
Zhangjie Luo
Yu Luo
Kaixue Ma
Lina Ma
Chunxu Mao
Yiqian Mao
Jiang Ming
Weicong Na
Fushun Nian
Liyang Nie
Zhongqian Niu
Jun-hui Ou
Jianyong Ouyang
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Xuancheng Ren
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Chaoyun Song
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Han Wei Tian
Xianzhong Tian
Cristiano Tomassoni
Dezhi Wang
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Hong Bin Wang
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Manting Wang
Mou Wang
Xuchen Wang
Yan Wang
Yi Wang
Yin-Da Wang
Yongqiang Wang
Yongqing Wang
Zuojia Wang
Zuojun Wang
Zhun Wei
Bian Wu
Fan Wu
Junwei Wu
Ke Wu
Qi Wu
Yi Wu
Yongle Wu
Yumao Wu
Yafei Wu
Lijie Xu
Rongrong Xu
Zong-Rui Xu
Sen Yan
Xu Yan
Ningning Yan
Baoguo Yang
Guomin Yang
Jie Yang
Shunchuan Yang

Wanchen Yang
Xujun Yang
Yang Yang
Xiuzhu Ye
Da Yi
Jianjia Yi
Wenyan Yin
Yingrui Yu
Qingsheng Zeng
Qiwei Zhan
Bing Zhang
Gang Zhang
Han Zhang
Hao Zhang
Hao-Xuan Zhang
Jianan Zhang
Jingwei Zhang
Jingyuan Zhang
Kanglong Zhang
Kuang Zhang
Qingfeng Zhang
Ruoyu Zhang
Sheng Xin Zhang
Xinhui Zhang
Yan Zhang
Yifei Zhang
Yiming Zhang
Yue Zhang
Yuxian Zhang
Zhan Zhang
Zhechen Zhang
Huapeng Zhao
Junming Zhao
Luyu Zhao
Yizhe Zhao
Zhenyu Zhao
Ziran Zhao
Shaoyong Zheng
Xuezhi Zheng
Shuomin Zhong
Kang Zhou
Shigang Zhou
Weiwei Zhou
Enze Zhu
Haoran Zhu
He Zhu
Weiren Zhu

Session Information

INFORMATION FOR ORAL PRESENTERS

Presenters are required to meet their session chairs in their session rooms at least 10 minutes prior to the beginning of their sessions. Each session room will be equipped with a computer and a projector which is the only permissible projection system. Each presenter **MUST** use the session's computer for his/her presentation, and the presentation file must be loaded into the computer in each session room in advance. Any delay due to the presenter's disregard of this instruction will result in reduced time for his/her presentation.

Each presenter is suggested to run a trial of his/her presentation in advance in his/her session room to see if there is any issue with format, special symbols, presentation length and animations etc. All regular oral presentations are limited to 15 minutes, invited talks are limited to 20 minutes (including Q&A). The Session Chairs will remind the presenters when there are only 5 minutes left for each presentation.

Assistance and helps are available at the registration desk. Please remember that due to the very large number of presentations and a tight schedule, having your presentation files ready for presentation by loading it into the computer in your session room ahead of your session time is very important.

INFORMATION FOR POSTER SESSION PRESENTATIONS

Presenters are required to put up their posters 10 minutes prior to the beginning of their sessions. Each normal poster presentation will last about 120 minutes. During this time, the presenter must stand by the display board to answer questions and discuss about the contents of the poster. The poster display should include a statement of the topic, objectives of the research or project, the methodology used to solve the problem or to develop the computer program, the major findings or outcomes and their significance and conclusions. There should be a logical flow of ideas and concepts in your poster - introduction, development and conclusion.

The heading of your poster should be large enough, at least 3 cm high. The heading should include the title of the poster, all author names and institutional affiliations. The recommended poster size is A0-size (Width 90 cm x Height 120 cm). Pins or tapes are provided on site by the conference for mounting your poster on the board. All materials to be displayed should be prepared before your arrival. Supplies will not be available at the conference site.

General Information

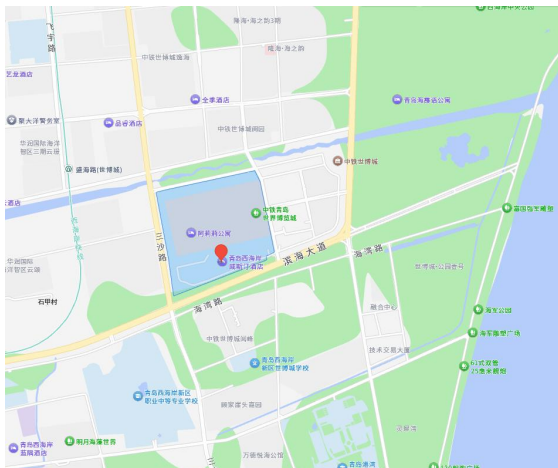
CONFERENCE VENUE

The Westin Qingdao West Coast

青岛西海岸威斯汀酒店

Address: No. 7977 Binhai Avenue, Huangdao District, Qingdao, Shandong, China

地址：山东省青岛市黄岛区滨海大道 7977 号



HOTEL INFORMATION

We offer special conference discounted rates for four partner hotels near the conference venue. Qingdao enters peak tourist season during the conference, so book by the hotel deadlines to secure preferential prices. When reserving, state you are an ACES-China 2026 attendee and provide your full name, phone, stay dates and room type preference.



1. The Westin Qingdao West Coast (青岛西海岸威斯汀酒店)



- **Distance to conference venue:** 0 m (on-site conference hotel)
- **Address:** No. 7977 Binhai Avenue, Huangdao District, Qingdao
- **Preferential Rate:** 450 CNY Per Night for Premium Superior Twin Room Including Breakfast; 450 CNY Per Night for Premium Superior King Room Including Breakfast
- **优惠价格:** 精选高级双床房 (1.35 米双床): 人民币 450 元/晚 含早餐, 精选高级大床房 (2 米大床): 人民币 450 元/晚 含早餐
- **Contact:** Manager Gan at +86 16678689886 (please book before July 31) (甘经理)

2. Nord Hotel Qingdao Zhongtie Expo City (青岛中铁世博城诺德酒店)



- **Distance to conference venue:** 200 m
- **Address:** Building 43, No. 7777 Binhai Avenue, Huangdao District, Qingdao
- **Preferential Rate:** 350 CNY Per Night for Premium Superior Twin Room Including Breakfast; 350 CNY Per Night for Premium Superior King Room Including Breakfast
- **优惠价格:** 精选高级双床房 (1.35 米双床): 人民币 350 元/晚 含早餐, 精选高级大床房 (2 米大床): 人民币 350 元/晚 含早餐
- **Contact:** Manager Wang at +86 13589208534 (please book before July 31) (王经理)

3. Qingdao Ronghe Mansion Hotel (青岛融合大厦酒店)

- **Distance to conference venue:** 1.1 km
- **Address:** No. 687 Ronghe Road, Huangdao District, Qingdao
- **Preferential Rate:** 238 CNY Per Night for Premium Superior Twin Room Including Breakfast; 218 CNY Per Night for Premium Superior King Room Including Breakfast



- **优惠价格:** 精选高级双床房 (1.35 米双床): 人民币 238 元/晚 含早餐, 精选高级大床房 (2 米大床): 人民币 218 元/晚 含早餐
- **Contact:** Manager Zhang at +86 15192591323 (please book before August 21) (张经理)

4. Qingdao Mangrove Resort World –Yelin Hotel (青岛红树林度假世界椰林酒店)

- **Distance to conference venue:** 8.5 km
- **Address:** No. 3588 Binhai Avenue, Huangdao District, Qingdao
- **Preferential Rate:** 600 CNY Per Night for Premium Superior City-view Twin/King Room Including Breakfast; 700 CNY Per Night for Premium Superior Sea-view Twin/King Room Including Breakfast



- **优惠价格:** 精选高级市景大/双床房: 人民币 600 元/晚 含早餐; 精选高级海景大/双床房: 人民币 700 元/晚 含早餐。
- **Contact:** Manager Li at +86 17660929810 (please book before August 15) (李经理)

REGISTRATION INFORMATION

The IEEE ACES-China 2026 Registration will be opened **on the first floor of The Westin Qingdao West Coast** from **14:30 to 18:00 on August 21**, from **07:30 to 12:15 and 13:15 to 18:00 on August 22–23**, and from **07:30 to 12:00 on August 24**.

The registration fee is shown on the following table. If you have pre-registered, your name badge and Technical Program book will be ready for you to pick up during the above conference registration time. Please wear your name badge throughout the conference. Access will be prohibited to the exhibition, tea break, and technical sessions if a name badge is not present.

Registration Fee Per Person - Including Prevailing Taxes		
	Early-Bird Registration By 15 July, 2026	Regular Registration On/After 16 July, 2026
IEEE APS/ACES Student Member	USD350 (RMB2,400)	USD400 (RMB2,700)
IEEE Student Member	USD380 (RMB2,600)	USD430 (RMB2,900)
Student (Non-IEEE Member)	USD430 (RMB2,900)	USD485 (RMB3,300)
IEEE APS/ACES Member	USD485 (RMB3,300)	USD630 (RMB4,300)
IEEE Member	USD530 (RMB3,600)	USD680 (RMB4,600)
Non-IEEE Member	USD650 (RMB4,400)	USD790 (RMB5,400)

ONE Registration for ONE participant includes (for all the registration categories):

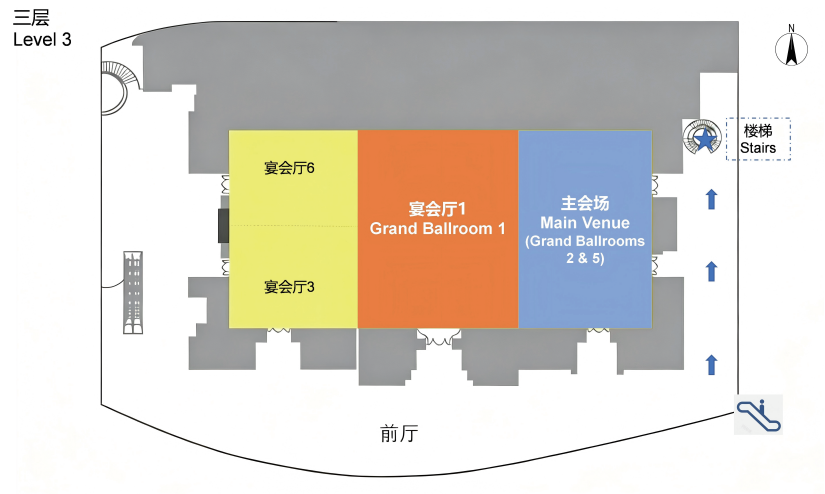
- Access to the technical sessions and exhibition;
- Refreshment;
- Lunch;
- Welcoming Reception;
- Banquet.

Please ensure that you receive the coupons for luncheons and conference banquet when you register at the conference desk.

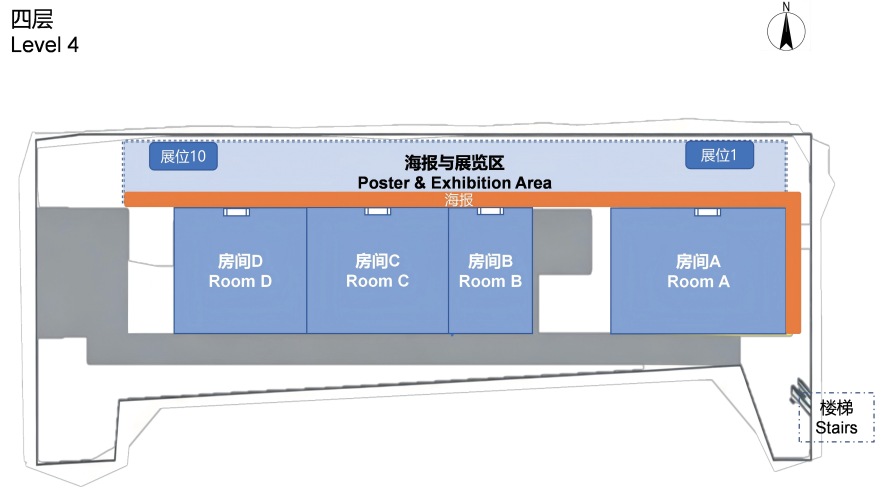
Conference Venue Layout

The conference is fully held inside The Westin Qingdao West Coast.

3rd Floor: Main Venue (Opening Ceremony)



4th Floor: Room A / Room B / Room C / D (All Parallel Technical Sessions), Poster & Exhibition Area



Student Paper Contest

Based on the reviewers' scores and comments, as well as the relevance to the conference theme, 35 student papers are shortlisted. All contestants are to attend the **poster session from 13:30 to 15:30 on Saturday, August 22**. All finalists should observe **formal dress code** for the session. The winners will be announced at the Conference Banquet on the evening of August 23, 2026.

Shortlisted Student Papers

- 1 ***A Waveform-Independent High-Resolution Range Profile Deception Method Based on True Time Delay***
Xingjian Shen, Fengyuan Guo, Yonggeng Zhu, Mengmeng Li, Jihong Gu and Dazhi Ding (Nanjing University of Science and Technology)
- 2 ***A Compact Circularly Polarized Antenna with Half Metallic Bezel for Wearable Smartwatch Direct-to-Satellite Communications***
Yunjiao Tang, Libin Sun, Lin-Sheng Wu and Gaobiao Xiao (Shanghai Jiao Tong University)
- 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)
- 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)
- 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)
- 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); Junjun Zhao (Jiangsu Shenzhou Semiconductor Technology Co. Ltd)
- 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)
- 8 ***Ultra-Low Parasitic Inductance Hybrid Packaging for SiC Devices Using Liquid Crystal Polymer (LCP)***
Shaoteng Yang and Yan Li (China Jiliang University); Er-Ping Li (Zhejiang University)
- 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)
- 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)
- 11 ***Accelerating Wideband Frequency Sweeps via Learned History-Subspace Warm Starts***
Haoran Sun, Maokun Li, Fan Yang and Shenheng Xu (Tsinghua University)

- 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)
- 13 ***Angle-Spectral Joint Sensing via Bound States in the Continuum Metasurfaces***
Ruifeng Liu (Tsinghua University); Meng Chen (Nuctech Ltd.); Yingxin Wang and Ziran Zhao (Tsinghua University)
- 14 ***WiFi-CSI-Based Edge Activity Recognition with a Lightweight CNN-GRU Network***
Chongrui Wang and Yan Shi (Xidian University)
- 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)
- 16 ***Independent DOA Estimation for Dual-Polarized Waves via Programmable Metasurface***
Qian Zhu, Han Wei Tian, Chao Song, Ya Li Zhao and Wei-Xiang Jiang (Southeast University)
- 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)
- 18 ***A Parallel Mesh Refinement Method with Local Body-Fitted Correction for Large-Scale Electromagnetic Scattering***
Tianbo Shang, Yongjia Sun and Pei-Yao Chen (University of Electronic Science and Technology of China); Xiaoyu Zhang and Mengmeng Li (Nanjing University of Science and Technology); Sheng Sun (University of Electronic Science and Technology of China)
- 19 ***An Efficient Multilevel Macro Basis Function Method for Large-Scale Finite Periodic Arrays***
Si Jia Guo and Yu Mao Wu (Fudan University)
- 20 ***Electric Fast Near-Field Transformation on Arbitrary Measurement Surfaces***
Yue Guo, Xiaowei Huang and Xin-Qing Sheng (Beijing Institute of Technology)
- 21 ***Spatial Phase Pre-Compensation for High-Gain Radiation Antenna in Non-Uniform Plasma Environments***
Yuhang Shi and Jinjun Mo (Guilin University of Electronic Technology)
- 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)
- 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)
- 24 ***Neural Network-Based Adaptive Source Placement for the Multifilament Current Method with Arbitrary Boundaries***
Liu Xiaojie (Peng Cheng Laboratory & Shenzhen University); Kai Wang (Peng Cheng Laboratory); Sai-Wai Wong (Shenzhen University); Xiaohu G Wu (Broadband Communication, Pengcheng Laboratory, Shenzhen); Ye Wang (Peng Cheng Laboratory)
- 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)
- 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)

- 27 ***Electrothermal Co-Simulation of Array Structures Based on Periodic Boundary Conditions***
Linpeng Yu, Hao-Xuan Zhang and Wen-Yan Yin (Zhejiang University)
- 28 ***Power Integrity Modeling and Analysis for Memristor in Neuromorphic Array Circuits***
Shuoxin Ji, Jiarui Qiu, Yuankai Xie and Hanzhi Ma (Zhejiang University)
- 29 ***Aperture Enlargement of Mobile Antenna Using Wearable Textile Metasurfaces***
Xianghui Qiu (Harbin Engineering University); Shuai S. A. Yuan, Mohammadmahdi Asgari, Francisco S. Cuesta and Sergei Tretyakov (Aalto University); Xuchen Wang (Harbin Engineering University); Viktar Asadchy (Aalto University)
- 30 ***A Directly Amplifier-Integrated Antenna with Filtering Response and High Efficiency***
Xiao Li and Qingle Zhang (Shenzhen University)
- 31 ***Generalized RWG Basis Functions for Broadband Electromagnetic Analysis***
Yinyin Ma, Zhenhong Fan and Mingxuan Zhang (Nanjing University of Science and Technology)
- 32 ***2-Bit Reconfigurable Unit Cell for High-Power Microwave Transmitarrays***
Yadan Zang, Jiangfeng Han, Haitao Wang and Jin Meng (Naval University of Engineering)
- 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)
- 34 ***Design of a High-Performance Broadband Frequency Source***
Liangcheng Hou (University of Electronic Science and Technology of China); Daotong Li (Chongqing University); Zuqiang Ou, Jincai Qiao, Zhongqian Niu and Bo Zhang (University of Electronic Science and Technology of China)
- 35 ***Miniaturized Dual-Feed Slotted Patch Antenna Design for 915 MHz RFID Systems***
Beichen Cao and Wenzhe Song (Southeast University); Rui Pei (Xi'an Jiaotong-Liverpool University); Wei Bing Lu (Southeast University)

IEEE ACES-China 2026 Keynote Speeches

Saturday, August 22, Grand Ballrooms 2 & 5, Level 3, The Westin Qingdao West Coast

- | | |
|--------------------|--|
| 9:00-9:40 | Keynote 1: Information Metamaterials and Large Electromagnetic Models
Tie Jun Cui (Southeast University) |
| 9:40-10:20 | Keynote 2: Perspective on Computational Electromagnetics Driven by Quantum Computing and Artificial Intelligence
Erping Li (Zhejiang University) |
| 10:50-11:30 | Keynote 3: Electromagnetic Computation: Advancements and Challenge
Jun Hu (University of Electronic Science and Technology of China) |
| 11:30-12:10 | Keynote 4: Test Technologies and Instruments for Integrated Circuits and 3D-Packaged Devices
Fushun Nian (Ceyear Technologies Co. Ltd) |

Keynote Speech 1

Saturday, August 22 9:00 - 9:40

Room: Grand Ballrooms 2 & 5, Level 3,
The Westin Qingdao West Coast

Information Metamaterials and Large Electromagnetic Models



Professor Tie Jun Cui
Southeast University

Tie Jun Cui is an Academician of Chinese Academy of Science, a member of the National Academy of Artificial Intelligence of the United States, and an IEEE Fellow. He is now the Director of State Key Laboratory of Millimeter Waves, Southeast University. He proposed the concept of digital coding and programmable metamaterials/metasurfaces and established a new direction of information metamaterials/metasurfaces, which fuse the electromagnetic space and digital space, and are easy to integrate with the artificial intelligence technologies. He published over 800+ journal papers with more than 98000 citations (H-factor 147), and received many awards, including the National Natural Science Awards of China, Frontiers of Science Award in the First International Congress of Basic Science, IEEE ComSoc Marconi Prize, Tan Kah Kee Science Award, Leading Technology Award in World Internet Conference, and ACES Technical Achievement Award. He is the Chief Editor of Metamaterial Short Books in Cambridge University Press, the Senior Editor of IEEE Journal of Selected Topics in Electromagnetics, Antennas, and Propagation, the Editor of Materials Today Electronics, and the Editorial Board Members or International Advisory Members of National Science Review, eLight, Photonix, Small Structure, Physical Review Applied, npj Metamaterials, Research, Advanced Optical Materials, Advanced Photonics Research, and Journal of Physics: Photonics. He also serves as the Chair of the IMT2030 (6G) Reconfigurable Intelligence Surface Group, President of the China Metamaterials Society, and Vice President of the Chinese Society of Optical Engineering.

Keynote Speech 2

Saturday, August 22 9:40 - 10:20

Room: Grand Ballrooms 2 & 5, Level 3,
The Westin Qingdao West Coast

Perspective on Computational Electromagnetics Driven by Quantum Computing and Artificial Intelligence



Professor Erping Li
Zhejiang University

Er-Ping LI is currently a Qiushi Chair Professor at School of Information and Electronic Engineering, Zhejiang University, International Academician of Chinese Academy of Engineering, Fellow of Singapore Academy of Engineering, Fellow of IEEE, Fellow of Electromagnetics Academy. He was Founding Dean of ZJU-UIUC

Institute, at Zhejiang University.

He authored or co-authored over 450 papers published in the referred international journals, authored six books published by Wiley-IEEE Press, Cambridge University Press, and Springer Nature. He holds and has filed 60 patents at the US, Singapore and China Patent offices. His research interests include digital electromagnetics, AI-IC and electromagnetics information technology. Dr Li received over 20 Academic Awards, including IEEE EMC highest Award: Richard Stoddard Award for Outstanding Performance, National Natural Science Award (Second Class), Zhejiang Province Natural Science Award (First Class).

Professor Li is the founding Executive Editor-in-Chief for ELECTROMAGNETIC SCIENCE, the Founding General Chair for Asia-Pacific International EMC Symposium (APEMC), delivered 120 keynote talks and invited talks and plenary speeches at various international conferences and forums.

Keynote Speech 3

Saturday, August 22 10:50 - 11:30

Room: Grand Ballrooms 2 & 5, Level 3,
The Westin Qingdao West Coast

Electromagnetic Computation: Advancements and Challenge



Professor Jun Hu
University of Electronic Science and Technology of China

Jun Hu received the B.S., M.S., and Ph.D. degrees in electromagnetic field and microwave technique from the University of Electronic Science and Technology of China (UESTC), Chengdu, China, in 1995, 1998, and 2000, respectively. In 2001, he was with the Wireless Communication Research Centre, City University of Hong Kong, Hong Kong, as a Research Assistant. From March to August 2010, he was a Visiting Scholar with the Electro Science Laboratory, Department of Electrical and Computer Engineering, the Ohio State University, Columbus, OH, USA. He was a Visiting Professor with the City University of Hong Kong, from February to March 2011. He is currently a Full Professor with the School of Electronic Science and Engineering, UESTC. He has authored or coauthored more than 300 technical articles. His research interests include integral equation methods in computational electromagnetics and electromagnetic scattering and radiation. He has received the 2004 Best Young Scholar Paper Prize from the Chinese Radio Propagation Society and many Best Student Papers Awards. He was awarded the 2014 National Excellent Youth Fund by the Natural Science Foundation of China (NSFC), awarded as Chang Jing Scholar in 2016. He was a co-recipient of the 2018 IEEE AP-S Sergei A. Schelkunoff Transactions Prize Paper Award. He served as the Chairperson for Student Activities Committee in IEEE Chengdu Section from 2010 to 2016 and the IEEE Chengdu AP/EMC Joint Chapter from 2014 to 2016.

Keynote Speech 4

Saturday, August 22 11:30 - 12:10

Room: Grand Ballrooms 2 & 5, Level 3,
The Westin Qingdao West Coast

Test Technologies and Instruments for Integrated Circuits and 3D-Packaged Devices



Fushun Nian
Ceyear Technologies Co., Ltd.

Fushun Nian is Chief Scientist of CETC and Director of the Key Laboratory of Electronic Testing Technology. He is a National Model Worker, a recipient of the State Council's Special Government Allowance, an expert in the Taishan Scholar Climbing Program, and a winner of the National Innovation Award. He has been honored as an Outstanding Sci-Tech Worker by both Qingdao City and Shandong Province, received the Shandong Provincial Award for Outstanding Talent, and won CETC's highest scientific and technological award. He specializes in the development of instruments and systems—such as wideband microW/mmW vector network analyzers, THz instruments, and automatic test systems—achieving independent innovation and autonomous, controllable technological capabilities. His research achievements include 1 Second Prize of the National Science and Technology Progress Award, 5 First Prizes and four Second Prizes at the provincial/ministerial level, and 3 First Prizes from academic societies. He holds 83 invention patents (with 46 granted), has drafted 3 national standards, published 85 academic papers, and authored 2 monographs.

Technical Program

8:30 - 10:20, Sat, Aug 22, 2026

Opening Ceremony & Keynote Session 1

Room: Grand Ballrooms 2 & 5, Level 3, The Westin Qingdao West Coast

- Chairs:** Weibing Lu (Donghua University)
Mingzhao Song (Harbin Engineering University)
- 1 Information Metamaterials and Large Electromagnetic Models**
9:00 Tie Jun Cui (Southeast University)
- 2 Perspective on Computational Electromagnetics Driven by Quantum Computing and Artificial Intelligence**
9:40 Erping Li (Zhejiang University)

10:50 – 12:10, Sat, Aug 22, 2026

Keynote Session 2

Room: Grand Ballrooms 2 & 5, Level 3, The Westin Qingdao West Coast

- Chairs:** Lixin Guo (Xidian University)
Zhixiang Huang (Anhui University)
- 1 Electromagnetic Computation: Advancements and Challenge**
10:50 Jun Hu (University of Electronic Science and Technology of China)
- 2 Test Technologies and Instruments for Integrated Circuits and 3D-Packaged Devices**
11:30 Fushun Nian (Ceyear Technologies Co., Ltd.)

13:30 - 15:30, Sat, Aug 22, 2026

Session: S01

AI for Antennas & Devices

Room: Room A

- Chairs:** Wei Lin (The Hong Kong Polytechnic University)
Luyu Zhao (Anhui University)
Guan-Long Huang (Foshan University)
Chaoyun Song (Shenzhen University)
Xiaoming Chen (Xi'an Jiaotong University)
- S01-1 AI-Assisted High-Dimensional Design for RF and Millimeter-Wave Integrated Circuits (Invited)**
- 13:30 Qingfeng Zhang, Huihua Liu and Kai Kang (University of Electronic Science and Technology of China)
- S01-2 AI-Assisted Far-Field Wireless Power Transmission for Supercapacitor Enabled IoT Application**
- 13:50 Wei Lin (The Hong Kong Polytechnic University)
- S01-3 Structural Decoupling in Phase-Shifter-Free Reconfigurable Arrays for Base-Station Applications**
- 14:05 Shuxin Zheng, Bingyi Qian and Xiaoming Chen (Xi'an Jiaotong University)
- S01-4 Experimental Validation of Efficiently Measuring the Complex Transmission Matrix by Power-Only Method in Phased-Array Multibeam Testing**
- 14:20 Hangning Ran, Huaqiang Gao and Xiaoming Chen (Xi'an Jiaotong University)
- S01-5 Automated Design of Pixelated Reflective Metasurfaces Driven by Small-Sample Machine Learning**
- 14:35 Zhao Zhou, Yuqi He and Wei Lin (The Hong Kong Polytechnic University)
- S01-6 Equivalent-Circuit Modeling and Design of Stacked-Metasurface Ultra-Wideband Millimeter-Wave Antenna Arrays**
- 14:50 Zhi Zhao, Ji-Wei Lian and Dazhi Ding (Nanjing University of Science and Technology)

**S01-7 Aperture Field Acquisition Based on Programmable Digital Coding
Metasurface**

15:05 Xuanjing Li and Junwei Wu (Southeast University); Yan Shi (Xidian
University); Yanbing Li (Beijing Jiaotong University)

13:30 - 15:30, Sat, Aug 22, 2026

Session: S02

Meta for Communication and Sensing

Room: Room B

- Chairs:** Wei-Xiang Jiang (Southeast University)
Han Wei Tian (Southeast University)
- S02-1 Full-Space Metasurfaces for Array Antenna and 5G Wireless Communication Applications (Invited)**
13:30 Yijun Feng (Nanjing University)
- S02-2 Optoelectronic Metasurface-Enabled Cross-Media Wireless Communications**
13:50 Xin Ge Zhang, Dong Jie Wang, Jian Kai Sun and Wei-Xiang Jiang (Southeast University)
- S02-3 Manipulation of Polarization, Phase, and Frequency Based on Polarization Rotation Reflective Surface**
14:05 Weihao Tang, Yutao Ma, Yongtao Jia and Ying Liu (Xidian University)
- S02-4 Dynamic Electromagnetic Wave Control by Reconfigurable Metasurfaces**
14:20 Ke Chen (Nanjing University)
- S02-5 Switchable Frequency Selective Surface Design Based on Inverse Network**
14:35 Rui Xi (Xidian University)
- S02-6 A Dual-Polarized Surface-Wave Collector for Efficient End-Fire Radiation**
14:50 Kaiqi Xiao and Xuchen Wang (Harbin Engineering University)
- S02-7 Randomly Generated 1-Bit Coding Metasurface for Symmetric Dual-Beam Reflection**
15:05 Xinke Kuang, Guisheng Liao, Yajia Meng, Boya Li, Jingwei Xu and Rui Xi (Xidian University)
- S02-8 Dynamic Metasurface Coding for mmWave Communications: From Harmonic Modulation to Secure Transmission**
15:20 Yujie Liu (Nanjing University of Aeronautics and Astronautics)

13:30 - 15:30, Sat, Aug 22, 2026

Session: S03

Multiphysics CEM and SIPI

Room: Room C

- Chairs:** Kanglong Zhang (Hangzhou Dianzi University)
Naixing Feng (Shenzhen University)
Yuxian Zhang (Anhui University)
- S03-1 Electromagnetic Multiphysics Modeling and Simulation of Multiscale Media (Invited)**
13:30 Zhixiang Huang and Kaikun Niu (Anhui University)
- S03-2 Validation of a 2D Acoustic High-Order FDTD Method with COMSOL Software**
13:50 Fei Yang, Yue Qin, Junji Dai and Yuxian Zhang (Anhui University)
- S03-3 A Low-Rank Direct Solver for Sparse Matrices Associated with Finite-Element and Domain Decomposition Systems**
14:05 Jiaqing Lu (Shanghai Jiao Tong University)
- S03-4 A High Gain, Low Sidelobe anti-Interference Antenna Structure for GPS L1 Band**
14:20 Chengzhi Wang, Yi-Feng Cheng, Lu Li and Kanglong Zhang (Hangzhou Dianzi University)
- S03-5 High-Gain Low-Sidelobe Dual-Band Array Antenna**
14:35 Lu Li, Yi-Feng Cheng, Chengzhi Wang and Kanglong Zhang (Hangzhou Dianzi University)
- S03-6 Adjoint Sensitivity Analysis of One-Dimensional Multi-Port S-Parameters**
14:50 Siqi He, Tianzhi Qiu, Rui Cao, Xuyang Lu and Yuxian Zhang (Anhui University)
- S03-7 A Compact MIMO Antenna with Defected Ground Structures for Implementing Three-Port Tri-Band**
15:05 Tianzhi Qiu, Siqi He, Rui Cao, Xuyang Lu and Yuxian Zhang (Anhui University)
- S03-8 Fast 2.5D Modeling of Irregular via Structures for High-Speed PCB Signal Integrity**
15:20 Caifu Sun and Shiquan He (University of Electronic Science and Technology of China); Tao Zhou (Southwest University of Science and Technology); Xu Wang (Zhejiang University)

13:30 - 15:30, Sat, Aug 22, 2026

Session: S04

Advanced Numerical Methods in EM

Room: Room D

- Chairs:** Mengmeng Li (Nanjing University of Science and Technology)
Junwei Wu (Southeast University)
Ming Jiang (University of Electronic Science and Technology of China)
- S04-1** **Wideband Radar Range-Angle Detection for UAV Swarm Based on Multi-Beam Coherent Fitting**
13:30 Yun Zhu, Zihao Pan, Qi Zhang, Mengmeng Li and Dazhi Ding (Nanjing University of Science and Technology)
- S04-2** **Research on Multi-Radar Sensing of Dynamic UAV Swarm Based on the 3-D ASC Model**
13:45 Zihao Pan, Mengmeng Li and Dazhi Ding (Nanjing University of Science and Technology)
- S04-3** **A Hybrid Body of Revolution Method and Equivalence Principle Algorithm for Solving Radiation Problem**
14:00 Hanru Shao (University of Electronic Science and Technology of China);
Yapeng Huang (Ningbo University)
- S04-4** **Fast a Posteriori Error Estimation for Multi-Domain Multi-Solver Electromagnetic Simulations**
14:15 Xiong Yang, Haojie Cao, Peiling Lin, Lin Lei and Jun Hu (University of Electronic Science and Technology of China)
- S04-5** **Simulation of Plasma Self-Channeling in Argon Based on Fluid Model**
14:30 Zhiqi Zhu and Yong Bo (Anhui University); Yang Lixia (Jiangsu University);
Xianmin Guo, Dawei Li and Xinyuan Fan (Anhui University)
- S04-6** **Gray-Height Prior Guided Neural Reconstruction of Sea Surface Geometry for Electromagnetic Modeling**
14:45 Jianxin Chen (China Ship Research Institute); Zhixia Wang (Harbin Engineering University); Xiaogang Yang and Jinlin Miao (China Ship Research Institute)

S04-7	Formulation and Performance Analysis of Embedded Domain Decomposition Method for Electromagnetic Simulations
15:00	Jiaqing Lu and Min Tang (Shanghai Jiao Tong University)

15:50 - 17:50, Sat, Aug 22, 2026

Session: S05

Antenna Design and Optimization

Room: Room A

- Chairs:** Yingrui Yu (Nanjing University of Science and Technology)
Ji-Wei Lian (Nanjing University of Science and Technology)
Fan Wu (Southeast University)
- S05-1 Research Advances on Multiband Shared-Aperture Antenna Arrays
(Invited)**
- 15:50 Bian Wu and Jiao Yin (Xidian University)
- S05-2 A Compact Broadband Horizontally Polarized Omnidirectional Antenna for
C-Band Application**
- 16:10 Haoxuan Li (Anhui University); Liu Zhaoyang (Beijing Institute of
Technology); Zhihui Wang, Jiebing Chan and Luyu Zhao (Anhui University)
- S05-3 An Efficient Design and Optimization Approach for Transmitarray-Based
Compact Antenna Test Ranges**
- 16:25 Jun Zhang and Wei Deng (Southeast University); Jingxue Wang (Hohai
University); Fan Wu (Southeast University)
- S05-4 Wideband Circularly Polarized Magneto-Electric Dipole Antenna for
Millimeter-Wave Communications**
- 16:40 Ruiming Lin, Yingrui Yu, Ziqing Chu and Wen Wu (Nanjing University of
Science and Technology)
- S05-5 Design of SIW Slot Antenna with Fan-Shaped Flat-Top Beam Pattern**
- 16:55 Qiang Chen, Yingrui Yu, Ziqing Chu and Wen Wu (Nanjing University of
Science and Technology)
- S05-6 A Low-Profile K/Ka Dual-Band Shared-Aperture Antenna Array with High
Isolation and Low Cross-Polarization**
- 17:10 Xin Chen, Yingrui Yu, Ziqing Chu and Wen Wu (Nanjing University of Science
and Technology)

S05-7	Wideband Slot-Loaded Circular Microstrip Antenna for Enhanced Medical IoT Connectivity
17:25	Qirat Ali Jafferri, Permanand Soothar and Faiza Saeed (Mehran University of Engineering and Technology Jamshoro Sindh Pakistan); Zaheer Ahmed Dayo (Huanggang Normal University); Zulfiqar Ali Arain and Shardha Bai (Mehran University of Engineering and Technology Jamshoro Sindh Pakistan); Zhonglin He (Huanggang Normal University)

15:50 - 17:50, Sat, Aug 22, 2026

Session: S06

Multiphysical Metamaterial & Surface

Room: Room C

- Chairs:** Zuojia Wang (Zhejiang University)
Ying Li (Zhejiang University)
- S06-1 Recent Progress on Acoustic-Controlled Reprogrammable Metasurfaces
(Invited)**
- 15:50 Wei-Xiang Jiang (Southeast University)
- S06-2 Electromechanical Coupling in Stretchable Valley-Hall Metasurfaces**
- 16:10 Jian Lin Su, Jian Wei You and Tie Jun Cui (Southeast University)
- S06-3 Transmissive Coding Metasurface for 1-Bit Reconfigurable Design**
- 16:25 Li Zhuoyue and Li Si Jia (Air Force Engineering University)
- S06-4 Analog Computing Capability of an Origami-Inspired Compact Cylinder**
- 16:40 Enzong Wu (Zhejiang University); Shenghui Zhao (AVIC Research Institute for
Special Structures of Aeronautical Composites); Xiaoyu Pang (Research
Institute for Special Structures of Aeronautical Composite AVIC); Hongsheng
Chen and Zuojia Wang (Zhejiang University)
- S06-5 Diverse Frequency Time Modulation for False Target Deception and Real
Target Range Estimation**
- 16:55 Jianyu Zhou, Yonggeng Zhu, Mengmeng Li, Jihong Gu and Dazhi Ding
(Nanjing University of Science and Technology)
- S06-6 Beyond the Single-Channel Absorption Limit in Dipole Antennas with
Time-Modulated Length**
- 17:10 Yuqi Zhao, Zeyuan Li and Xuchen Wang (Harbin Engineering University)

15:50 - 17:50, Sat, Aug 22, 2026

Session: S07

mmWave/THz Materials and Devices

Room: Room D

- Chairs:** Bian Wu (Xidian University)
Junming Zhao (Nanjing University)
Zong-Rui Xu (City University of Hong Kong)
- S07-1 Functional Metasurfaces at Terahertz Bands (Invited)**
15:50 Mingyao Xia (Peking University)
- S07-2 Low Loss Wideband Bandpass Filter in InP Technology with Cryogenic Performance Analysis**
16:10 Hongliang Tian (Shenzhen University)
- S07-3 A Plasma-Switched TE₁₁ Mode Converter with Reconfigurable Circular Polarization**
16:25 Jiaqi Tan, Qiang Zhang, Lei Wang, Heng Zhang, Yunfei Sun and Chengwei Yuan (National University of Defense Technology)
- S07-4 Charge-Carrier Dynamics in Composite Films Based on Quasi-2D (BA)₂(MA)_{n-1}Pb_nBr_{3n+1} Perovskite**
16:40 Stepan V. Pozdnyakov, Sergey V. Makarovv and Maria Sandzhieva (ITMO University)
- S07-5 A Review on Wide Bandgap Semiconductors for Next-Generation Application**
16:55 Hamza Arif (University of Central Punjab (UCP))
- S07-6 Design of Low-Profile Ultra-Wideband Absorbing Structure with Patterned Graphene - ITO Composite**
17:10 Yajing Zheng (AVIC Research Institute for Special Structures of Aeronautical Composites); XingYu Li (BeiHang University); Donglin Sun; Meng-Jie Li (AVIC Research Institute for Special Structures of Aeronautical Composites)
- S07-7 A 299-315-GHz Dual-Band Radiator Array with Cascaded Transmission Line-Based Feedback Network for Phase Noise Improvement**
17:25 Yang Meng (City University of Hong Kong); Liang Wu (The Chinese University of Hong Kong, Shenzhen); Yongxin Guo (City University of Hong Kong)

8:00 - 10:00, Sun, Aug 23, 2026

Session: S08

RF Devices and Microsystems

Room: Room A

- Chairs:** Yongrong Shi (Nanjing University of Aeronautics and Astronautics)
Weiwei Zhou (Nanjing University of Aeronautics and Astronautics)
- S08-1** **Design-Technology Co-Optimization (DTCO) Method for RF Circuits (Invited)**
8:00 Shuman Mao and Yuehang Xu (University of Electronic Science and Technology of China)
- S08-2** **Compact Terahertz Heterodyne Interference Imager Based on Transmission-Reflection-Integrated Metalens (Invited)**
8:20 Weidong Hu (Beijing Institute of Technology)
- S08-3** **Compact X-Band GaAs pHEMT LNA Using Current-Reused Technique**
8:40 Chen Hui and Weiwei Zhou (Nanjing University of Aeronautics and Astronautics); Yan Jiang (Nanjing University of Posts and Telecommunications); Yun Qian and Yongrong Shi (Nanjing University of Aeronautics and Astronautics)
- S08-4** **Design of an 8 * 8 Multi-Beam Network Based on Butler Matrix Work at W-Band Frequencies**
8:55 Xuyang Hou and Fangxiu Jia (NJUST); Shuo Shu, Enlin Wang and Xun Jiang (Nanjing University of Aeronautics and Astronautics)
- S08-5** **A 4.5~6.0 GHz Low-Noise Amplifier Using Gate-Inductor-Free Simplified Noise Matching Technique in 0.18- μ m CMOS**
9:10 Benwei Wu, Tongyu Zhou, Zhihao Li and Guoxiao Cheng (Nanjing University of Science and Technology)
- S08-6** **Novel Packaged Broadside Isolated Differential Striplines with Wide-Band Transition Structure for High-Speed Digital Circuits**
9:25 Wenjie Jia, Peng Zhou, Mengmeng Li and Dazhi Ding (Nanjing University of Science and Technology)

8:00 - 10:00, Sun, Aug 23, 2026

Session: S09

Antennas and Sensors for WBAN/IoT

Room: Room B

- Chairs:** Sen Yan (Xi'an Jiaotong University)
Xuchen Wang (Harbin Engineering University)
- S09-1 Co-Dual-Polarized Full Duplex Antennas for Integrated Sensing and Communication (ISAC) Applications (Invited)**
- 8:00 Yuenian Chen, Ying Liu and Yongtao Jia (Xidian University)
- S09-2 Compact Cross-Polarised Chipless RFID Sensor for Cold Chain Breaks Monitoring**
- 8:20 Jufang Zhang (Xi'an University of Technology)
- S09-3 Single-Fiber Buckling Embroidered Plasmonic Metafabric for Body Area Networks**
- 8:35 Xincheng Yao, Junyu Zhu, Liqiao Jing and Zuoqia Wang (Zhejiang University)
- S09-4 IDC Integrated Cross-Polarised Chipless RFID Sensor for Accurate Cold Chain Breaks Monitoring**
- 8:50 Jufang Zhang (Xi'an University of Technology)
- S09-5 Radiation Pattern Reconfigurable Antenna Activated by Thermally-Stimulated Shape-Reconfigurable Polymer Materials**
- 9:05 Meng Wang and Chuxiong Zhang (Central South University)
- S09-6 A Broadband and Angle-Stable Reconfigurable Metasurface for anti-Radar Detection**
- 9:20 Yilin Zheng, Changrong Liu and Wenhai Zhang (Soochow University); Yijun Feng (Nanjing University)

8:00 - 10:00, Sun, Aug 23, 2026

Session: S10

CEM and AI

Room: Room C

- Chairs:** Zhuo Li (Nanjing University of Aeronautics and Astronautics)
Zheng-Yu Huang (Nanjing University of Aeronautics and Astronautics)
Yi Wang (Nanjing University of Aeronautics and Astronautics)
Xinlei Chen (Nanjing University of Aeronautics and Astronautics)
- S10-1 Characteristic Mode Analysis 3.0: From Realistic to Intelligent (Invited)**
8:00 Qi Wu (Beihang University)
- S10-2 Study of an FSS with High Angular Stability for Radome Application**
8:20 Runchen Wang and Yi Wang (Nanjing University of Aeronautics and Astronautics)
- S10-3 Mixed-Precision FGMRES with Magnitude-Partitioned SpMV for Electromagnetic FEM on DCU**
8:35 Ancheng Lin (University of Chinese Academy of Sciences); Wu Wang (Chinese Academy of Sciences)
- S10-4 Low-Rank Compression of the Slot-Buffer Matrix in FEM: Balancing Approximation Error and Field Accuracy**
8:50 Hui Wang, Jiaxuan Wang and Qiang Ren (Beihang University)
- S10-5 An FCC-FDTD Method for Debye Media Based on Matrix Exponential Technique**
9:05 Boyan Cui and Guangzhi Chen (Beihang University)
- S10-6 A Fast Width-Based Method for Estimating Gap-Equivalent RCS on a Low-Scattering Carrier**
9:20 Qi Liu (Beijing University of Aeronautics and Astronautics); Nan Wu (701 Research Institute); Peilin Huang (Beihang University)
- S10-7 Microwave Edge Diffraction Effects in Locally Covered High-Density Plasma**
9:35 Chuanping Yu, Xiaowei Huang and Xin-Qing Sheng (Beijing Institute of Technology)

8:00 - 10:00, Sun, Aug 23, 2026

Session: S11

Meta for Wave Manipulation

Room: Room D

- Chairs:** Fu Liu (Xi'an Jiaotong University)
Zeyuan Li (Harbin Engineering University)
- S11-1 Amplifier-Based Programmable Metasurfaces: Full-Polarization Bidirectional Enhancement and Joint-Modulation for High-Efficiency SWIPT (Invited)**
- 8:00 Xin Wang (Xi'an University of Posts and Telecommunications); Jiaqi Han, Qiang Feng, Hao Xue, Haixia Liu, Yajie Mu, Ling Yun Niu and Long Li (Xidian University)
- S11-2 Design of Dielectric-Free Frequency-Selective Surfaces Based on Multiport Network Theory**
- 8:20 Mengzhu Han, Wenrui Zheng and Hui Li (Dalian University of Technology)
- S11-3 Efficient Polarization-Converted Second Harmonic Generation Enabled by Diode-Bridge-Assisted Chiral Structure**
- 8:35 Ke Li (Xi'an Jiaotong University); Zhenzhi Liu (Westlake University); Yanpeng Zhang (Xi'an Jiaotong University); Xuchen Wang (Harbin Engineering University); Fu Liu (Xi'an Jiaotong University)
- S11-4 Spatial-Polarization Multiplexed Metagratings for Independent Electromagnetic Wave Transformations**
- 8:50 Kaiqi Xiao and Xuchen Wang (Harbin Engineering University)
- S11-5 Electromagnetic Supercoupling via 1D Photonic Doping of Epsilon-near-Zero Media**
- 9:05 Ziheng Zhou (Fuzhou University); Zhizhang (David) Chen (Dalhousie University)
- S11-6 Chebyshev-Designed Metamaterial for Broadband Wide-Angle Plane-Wave Impedance Matching**
- 9:20 Junyang Li, Chenshuo Zhang, Yinlong Li, Wenchang Zhu, Zechen Tian, Liangliang Liu and Luo Yu (Nanjing University of Aeronautics and Astronautics)

S11-7 **Isolation Enhancement of a Bistatic in Band Full Duplex Base Station**
Antenna Using a Static Absorbing Surface
9:35 Song Shuai, Jiebing Chan and Luyu Zhao (Anhui University)

10:20 - 12:20, Sun, Aug 23, 2026

Session: S12

Reconfigurable Meta & Antenna

Room: Room A

- Chair:** Lei Ge (Shenzhen University)
Xujun Yang (Zhejiang University)
- S12-1 Recent Advances in Coupling Matrix Methods for Microwave Filters and Filtering Antennas (Invited)**
- 10:20 Xiuping Li (Beijing University of Post and Telecommunications)
- S12-2 An RFID-Controlled Sandwich-Structured Reconfigurable Metasurface Antenna Array**
- 10:40 Mai Zhang (Xidian University)
- S12-3 A Substrate Integrated Waveguide (SIW)-Based Slot Antenna with Reconfigurable Radiation Patterns**
- 10:55 Han Chanxi, Jiuzhou Chen, Huawei Lin, Quangang Chen and Lei Ge (Shenzhen University)
- S12-4 Gain-Enhanced Polarization Reconfigurable Magneto-Electric Dipole Antenna for Millimeter-Wave Applications**
- 11:10 Xujun Yang and Zuxi He (Anhui Agricultural University); Leyan Chen (Beijing Normal-Hong Kong Baptist University); Xiaobo Zhou (Anhui Agricultural University)
- S12-5 A Broadband Tunable Metamaterial Absorber for Mutual Coupling Reduction in Antenna Arrays**
- 11:25 Jiebing Chan, Jiachen Zhu, Haoxuan Li, Luyu Zhao and Zhihui Wang (Anhui University)
- S12-6 Design and Validation of Broadband -20 dB RCS Reduction Using a Polarization-Conversion Metasurface**
- 11:40 Yuxuan Zeng, Zhonglei Mei and Tiaoming Niu (Lanzhou University)

10:20 - 12:20, Sun, Aug 23, 2026

Session: T02

Electromagnetic Education

Room: Room B

- Chairs:** Sheng Sun (University of Electronic Science and Technology of China)
Wei E. I. Sha (Zhejiang University)
- T02-1 Opening address**
10:20 Prof. Shengjun Zhang (National Key Laboratory of Science and Technology on Test Physics & Numerical Mathematics)
- T02-2 Exploration of Electromagnetic Fields and Waves Course Development from the Perspective of Integrating Science and Education**
10:25 Zi He (Nanjing University of Science and Technology)
- T02-3 Quantum Electromagnetics Education: Bridging Quantum Theory and Electromagnetic Engineering**
10:40 Qun Ren and Hongze Yan (Tianjin University); Sheng Sun (University of Electronic Science and Technology of China); Wei E. I. Sha (Zhejiang University)
- T02-4 An AI-Empowered Intelligent Tutoring System for Electromagnetics Education Aided by Virtual Reality**
10:55 Jiahui Li, Yiwen Fang, Si Li, Wenyuan Xu and Shurun Tan (Zhejiang University)
- T02-5 AI-Assisted Teaching of Antenna Polarization from Visualizations to HFSS Simulations**
11:10 Junbing Duan (Southwest Jiaotong University); Sheng Sun (University of Electronic Science and Technology of China)
- 11:25 **Coffee Break**
- T02-6 Electromagnetics Education in the AI Era: What Should We Teach and How Should We Teach It?**
11:35 Moderator: Prof. Jin Pan (University of Electronic Science and Technology of China)

10:20 - 12:20, Sun, Aug 23, 2026

Session: S13

Singular Meta-Optics

Room: Room C

- Chairs:** Xuezhi Zheng (Nanjing University of Aeronautics and Astronautics)
Jie Yang (Air Force Engineering University)
- S13-1** **Multidimensional Engineering of Focused Optical Field (Invited)**
10:20 Jian Chen (University of Shanghai for Science and Technology)
- S13-2** **Topology-Aware Perceptual Mapping for Robust OAM Image Transmission Through Atmospheric Turbulence**
10:40 Mingjian Cheng (Xidian University)
- S13-3** **Engineering Exceptional Points in Single Dielectric Mie Resonators**
10:55 Fan Zhang (Harbin Engineering University)
- S13-4** **Radar Cross Section of Dielectric Blunt Cone Under Arbitrary Bessel Vortex Wave Incidence**
11:10 Taojin Hu, Songhua Liu, Minghao Sun, Yang Song and Lixin Guo (Xidian University)
- S13-5** **Effect of Dephasing on Quantum Transport of Non-Interacting Bosons in a Diamond Chain with Magnetic Flux**
11:25 Pavel Muraev (Siberian Federal University)
- S13-6** **Polarization Topology Engineering with Planar Chiral Metasurfaces**
11:40 Zi-Lan Deng (Jinan University)
- S13-7** **Control of Focusing Characteristics of Autofocusing Airy Vortex Beams in Anisotropic Oceanic and Atmospheric Turbulence**
11:55 Xu Yan (Xi'an University of Electronic Science and Technology); Haobin Wen (Air Force Engineering University)
- S13-8** **Reconfigurable Flat Optical Devices Enabled by the Dislocation Degree of Freedom**
12:10 Dapeng Zhang and Fei Zhang (Institute of Optics and Electronics, Chinese Academy of Sciences)

10:20 - 12:20, Sun, Aug 23, 2026

Session: S14

Meta for Absorption and Shielding

Room: Room D

- Chairs:** Ming-Chun Tang (Chongqing University)
Da Yi (Chongqing University)
Xuchen Wang (Harbin Engineering University)
Shuomin Zhong (Ningbo University)
- S14-1** **Novel Ungrounded Shielding Technique for Evanescent Wave Interference Suppression in Electrically Small Cavity (Invited)**
10:20 Da Yi and Wei Zhou (Chongqing University); Zhi-Ge Wu and Zi-Tong Yan (Chongqing university); Ming-Chun Tang (Chongqing University)
- S14-2** **Investigation of Wideband High-Selectivity Angle-Selective Structures (Invited)**
10:40 Weiliang Yu (Hangzhou Dianzi University); Shizhao Tang and Leilei Liu (Nanjing University of Posts and Telecommunications); Guo Qing Luo (Hangzhou Dianzi University); Zhongxiang Shen (Yangtze Delta Region Academy of Beijing Institute of Technology)
- S14-3** **All-Angle Polarization-Insensitive Perfect Absorption Based on Aperiodic Metagratings**
11:00 JunXin Liu, Kaiqi Xiao and Xuchen Wang (Harbin Engineering University)
- S14-4** **PEEC-Based Fast Evaluation of Power Routing Topology Effects on Low-Frequency Magnetic Radiation in Microsystem**
11:15 Han Han and Da Li (Zhejiang University); Di Gao (AVIC Research Institute for Special Structures of Aeronautical Composites); Xiaoyu Pang (Research Institute for Special Structures of Aeronautical Composite AVIC); Er-Ping Li (Zhejiang University)
- S14-5** **Research of an Ultra-Thin Metamaterial Absorber with Dual Broadband Responses in K and Ka Bands**
11:30 Zhiqiang Zhang (Hefei University of Technology); Yan Xu (QuantumCTek Co. Ltd); Haoyu Zhang and Jianfei Zhu (Hefei University of Technology)

- S14-6 Programmable Electromagnetic Space via Metasurface Clusters**
11:45 Min Li (Anhui Agricultural University); Zuojia Wang and Hongsheng Chen (Zhejiang University)
- S14-7 Analysis and Design of Honeycomb Metamaterial Structures with Broadband Frequency Selectivity and Wide-Angle Stability**
12:00 Yuanzhao Lv (Northwest Polytechnical University Xi'an); Xin Ma (Northwestern Polytechnical University); Chunling Zhao (China COMAC Shanghai Aircraft Design and Research Institute); Guobin Wan (Northwestern Polytechnical University)
- S14-8 Experimental Demonstration of a Time-Varying Metasurface Absorber Beyond the Rozanov Limit**
12:15 Maoxin Wang, Zeyuan Li and Xuchen Wang (Harbin Engineering University)

13:30 - 15:30, Sun, Aug 23, 2026

Session: S15

Multiphysics Modeling and Integration

Room: Room A

- Chairs:** Yin-Da Wang (Zhejiang University)
Qiwei Zhan (Zhejiang University)
Wen-Yan Yin (Zhejiang University)
- S15-1 **A Hybrid RWG-EPA-BoR Method for GPU-Accelerated Electromagnetic Scattering Analysis of Swarm Targets (Invited)****
- 13:30 Mengmeng Li (Nanjing University of Science and Technology)
- S15-2 **Multiphysics Simulation Using Semi-Structured Meshes for Thermal Management Design of Chiplets****
- 13:50 Yin-Da Wang, Qiwei Zhan and Wen-Yan Yin (Zhejiang University)
- S15-3 **Control Volume Finite Element Method on Triangular Prism Meshes for Drift-Diffusion Equations in Semiconductor Device Simulation****
- 14:05 Qi-chao Wang, Li-Ming Xu and Wen-Yan Yin (Zhejiang University)
- S15-4 **Electromagnetic-Thermal Coupling Simulation of Patch Antenna Based on DGTd and FETD****
- 14:20 Zhen Wang, Wei Ding and Yong Bo (Anhui University); Yang Lixia (Jiangsu University); Ling Zhao and Xinyuan Fan (Anhui University)
- S15-5 **An Efficient Short-Recurrence Block Iterative Method with Multiple RHS Dimension Reduction****
- 14:35 Xing Li, Liang Li and Bin Li (University of Electronic Science and Technology of China)
- S15-6 **On the Development and Application of an Unconditionally Stable Divergence-Preserving FDTD Method****
- 14:50 Guoda Xie and Guilin Hou (Anhui University)

13:30 - 15:30, Sun, Aug 23, 2026

Session: S16

AI for RF Inverse Design

Room: Room B

- Chairs:** Enze Zhu (Zhejiang University)
Jingwei Zhang (Zhejiang University)
Zhun Wei (Zhejiang University)
Wen-Yan Yin (Zhejiang University)
- S16-1 Integrating Data, Physics, and Prior Information in Electromagnetic Data Inversion (Invited)**
13:30 Maokun Li (Tsinghua University)
- S16-2 Adaptive Tabu-Enhanced Simulated Bifurcation for RCS Inverse Design of Coding Metasurface Arrays**
13:50 Pei-Yang Zhou, Shi-Han Zhang, Zi He and Dazhi Ding (Nanjing University of Science and Technology)
- S16-3 Deep Reinforcement Learning-Based Co-Optimization of Power Planes and Decoupling Capacitors for Power Distribution Networks**
14:05 Keyi Ding, Ling Zhang, Li Jiang, Junjie Ren and Er-Ping Li (Zhejiang University)
- S16-4 Solving Large-Scale Voxel Volume Integral Equations in Random Media Scattering via 3D U-Net Physics-Informed Neural Network**
14:20 Yuanhao Cao, Jiayi Du and Shurun Tan (Zhejiang University)
- S16-5 CNN Modeling and Sample Proportion Impact Study for Aircraft RCS Target Recognition**
14:35 Shunli Sun (Beijing University of Aeronautics and Astronautics)
- S16-6 A Co-Aperture 2-Bit Programmable Metasurface with Independent Control of Dual-Polarized EM Waves**
14:50 Peng Wang (Guilin University of Electronic Technology); Liang Xu (China University of Mining and Technology)

13:30 - 15:30, Sun, Aug 23, 2026

Session: S17

AI for EM Design

Room: Room C

Chairs:	Jing Jin (Central China Normal University) Feng Feng (Tianjin University) Weicong Na (Beijing University of Technology)
S17-1	AI-Enhanced Modeling of Marine Atmospheric Ducts (Invited)
13:30	Lixin Guo (Xidian University); Hanjie Ji (Xidian University)
S17-2	An Overview of Surrogate-Based Multiphysics Optimization Techniques for Microwave Filters
13:50	Jiaping Fu, Jing Jin and Hai Lin (Central China Normal University); Wei Zhang (Beijing University of Posts and Telecommunications)
S17-3	SSP Technique-Integrated Mesh Space Mapping Optimization of a Tunable Five-Pole Waveguide Filter
14:05	Xiaojie Zhang and Feng Feng (Tianjin University); Shuxia Yan (Tianjin Polytechnic University); Mutian Li, Shaochang Liu and Kaixue Ma (Tianjin University); Qijun Zhang (Carleton University)
S17-4	A Finite-Element MOR-Based Compact Neuro-Transfer Function Approach for Parametric Modeling of a Microwave Diplexer
14:20	Ke Liu and Feng Feng (Tianjin University); Shuxia Yan (Tianjin Polytechnic University); Weicong Na (Beijing University of Technology); Kaixue Ma (Tianjin University); Qijun Zhang (Carleton University)
S17-5	Physics-Informed Neural Network Approach for Solving 3D Maxwell's Equations in Waveguide Problems
14:35	Eliel Kolela, Zheng-Yu Huang, Yu Tian (Nanjing University of Aeronautics and Astronautics); Yi-Ru Zheng

13:30 - 15:30, Sun, Aug 23, 2026

Session: S18

Microwave/mmWave Arrays

Room: Room D

- Chairs:** Ningning Yan (Tianjin University)
Neng-Wu Liu (Xidian University)
Yu Luo (Tianjin University)
- S18-1 Physical Layer Secure Communications with Four-Dimensional Antenna Arrays (Invited)**
13:30 Yikai Chen (University of Electronic Science and Technology of China)
- S18-2 Design of a Compact UWB Vivaldi Antenna**
13:50 Yuan-yuan Gao (Xi'an University of Electronic Science and Technology);
Ke-Xin Sun and Neng-Wu Liu (Xidian University)
- S18-3 A Compact UHF Omnidirectional Antenna for Bandwidth Improvement**
14:05 Ke-Xin Sun (Xidian University); Yuan-yuan Gao (Xi'an University of Electronic Science and Technology); Neng-Wu Liu (Xidian University)
- S18-4 A Frequency -Reconfigurable Antenna Based on Hexagon-Twist Origami**
14:20 Yanshan Wang, Jingsong Wei, Xiao Zhang, Yu Luo and Kaixue Ma (Tianjin University)
- S18-5 Bandwidth-Enhanced Leaky-Wave Antenna with Negative Group Delay Effect**
14:35 Junbing Duan (Southwest Jiaotong University); Lei Zhu (University of Macau);
Cheng Liao (Southwest Jiaotong University)
- S18-6 Physics-Informed Dimensionless Representation for Cross-Domain RIS Modeling and Design**
14:50 Yingjuan Lu and Qiang Cheng (Southeast University)

15:50 - 17:50, Sun, Aug 23, 2026

Session: S19

mmWave/THz Measurement

Room: Room A

- Chair:** Jianqin Deng (Ceyear Technologies Co. Ltd)
- S19-1** **Testing Challenges and Recent Advances in Front Ends for Terahertz Application System (Invited)**
- 15:50 Jianqin Deng (Ceyear Technologies Co. Ltd)
- S19-2** **Numerical Research on the near-Field Brightness Temperature Transfer in the Radiometer Calibration Link**
- 16:10 Ming Jin and Haoran Zhang (Beijing University of Chemical Technology);
Xiang Li and Ming Bai (Beihang University)
- S19-3** **An S-Parameter Calibration Method for Reflectivity Measurement of Soil Covered with Vegetation Litter**
- 16:25 Shaojie Xu and Shurun Tan (Zhejiang University)
- S19-4** **Near-Field Measurement of the Millimeter Wave and Terahertz Quasi-Optical System**
- 16:40 HaoTian Zhu (National Space Science Center, Chinese Academy of Sciences)
- S19-5** **Research on Terahertz Substance Detection and Identification Technology**
- 16:55 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)
- S19-6** **A Parallel FETI-DP Solver for 2D Eddy Current Problems with Extreme Conductivity Contrast**
- 17:10 Ke-Xiang Zhu, Yong-Zhuo Lv, Da-Wei Wang and Wen-Sheng Zhao (Hangzhou Dianzi University)

15:50 - 17:50, Sun, Aug 23, 2026

Session: S20

Large-Scale Array Modeling

Room: Room B

- Chairs:** Hao-Xuan Zhang (Zhejiang University)
Wen-Yan Yin (Zhejiang University)
- S20-1 Wideband Common-Mode Noise Suppression Technology (Invited)**
15:50 Wenjie Feng (South China University of Technology)
- S20-2 A Wideband Side-Slotted Vivaldi Ceramic Antenna**
16:10 Guanghui Xu and Mengqing Wang (Anhui University); Yanbin Luo (The East China Research Institute of Electronic Engineering); Wei Wang (No. 38 Research Institute of CETC); Zhixiang Huang (Anhui University)
- S20-3 Dual-Band Shared-Aperture W/D Band Reflectarray Fabricated by CNT-Loaded Glass Technology**
16:25 Kaiyuan Jin, Jingwei Zhang, Yiyao Wang and Wen-Yan Yin (Zhejiang University); Haitao Li and Li Ding (Peking University)
- S20-4 Magnetic-Loss-Aware Electromagnetic-Thermal Cosimulation of Ferrite-Loaded Front-End Arrays**
16:40 Hao-Xuan Zhang and Wen-Yan Yin (Zhejiang University)
- S20-5 Fast Sensitivity Analysis of Antenna Array Radiation Characteristics**
16:55 Shi-Wei Guo, Kaiyuan Jin, Hao-Xuan Zhang and Wen-Yan Yin (Zhejiang University)
- S20-6 Parallel Electromagnetic-Thermal Multiphysics Computation of Large-Scale FSS Radomes**
17:10 Yiyao Wang, Qiwei Zhan, Linpeng Yu, Hao-Xuan Zhang and Wen-Yan Yin (Zhejiang University)

15:50 - 17:50, Sun, Aug 23, 2026

Session: S21

Advanced EM Simulation and Design

Room: Room C

- Chairs:** Huapeng Zhao (University of Electronic Science and Technology of China)
Song Sun (CAEP Microsystem and Terahertz Research Center)
- S21-1 Large-Angle Incidence Electromagnetic Wave Control Technology**
15:50 Jin Cheng and JiFang Ren (Beijing Institute of Technology); Yulin Zhao (Yangtze Delta Region Academy of Beijing Institute of Technology); Xinliang Mao (Beijing Institute of Technology)
- S21-2 Electric and Magnetic Probes for Electromagnetic Interference Testing: Principle and Applications**
16:05 Xing-Chang Wei (Zhejiang University)
- S21-3 Preliminary Investigation of RCS Simulation Error Versus Geometrical Parameter Error**
16:20 Qi Xu, Xueyuan Luo, Yangzheng Yuan, Yongpin Chen and Huapeng Zhao (University of Electronic Science and Technology of China)
- S21-4 Physically Consistent Video Synthesis of Range-Doppler Maps via Micro-Doppler Injection**
16:35 Ling Gui, Dongying Li and Wenxian Yu (Shanghai Jiao Tong University)
- S21-5 Miniaturized Coupling Structures for Decoupling PIFAs on Handhold Devices**
16:50 Qian Li (Xi'an University of Electronic Science and Technology)
- S21-6 Q-Factor Enhancement Mechanism of qBIC Resonances with Large Asymmetry Based on the Coupling with High-Order Diffraction Modes**
17:05 Yi Tian, Qin FU and Qingguo Du (Wuhan University of Technology)
- S21-7 Multiphysics Modeling and Numerical Simulation of Helical Magnetic Flux Compression Generators**
17:20 Muhammad Kamran Butt (Xi'an Jiaotong University); Samia Nasir (Chang'an University)

15:50 - 17:50, Sun, Aug 23, 2026

Session: S22

RF Harvesting and SWIPT

Room: Room D

- Chairs:** Jun-Hui Ou (South China University of Technology)
Zhi-Xia Du (Guangdong University of Technology)
- S22-1** **Rectifier and Rectenna Designs for Low Power RF Energy Harvesting (Invited)**
15:50 Jun-Hui Ou and Xiuyin Zhang (South China University of Technology)
- S22-2** **An Ultra-High-Q Distributed Spiral Inductor with Extremely Low ESR for Efficient -35 dBm RF Energy Harvesting**
16:10 Pai-Dong Lin (Guangdong University of Technology); Jun-Hui Ou (South China University of Technology); Zhi-Xia Du (Guangdong University of Technology); Zongheng Wei (Guangdong Polytechnic Normal University); Zhuozhu Chen (Guangdong University of Technology)
- S22-3** **A High-Efficiency Rectifier Design for Ultra-Low-Power RF Energy Harvesting**
16:25 Chen Jiajie (South China University of Technology)
- S22-4** **Millimeter-Wave Simultaneous Wireless Information and Power Transfer System for Wearable Medical and IoMT Applications**
16:40 Saiful Islam and Van Linh Pham (Hanyang University); Tuyen Nguyen Dinh (Ho Chi Minh City University of Technology); Hyoungsuk Yoo (Hanyang University)
- S22-5** **Multi-Band Metamaterial Absorber for Microcurrent Collection**
16:55 Chenshuo Zhang, Yinlong Li, Junyang Li, Wenchang Zhu, Aixuan Li, Hongyi Li, Zechen Tian, Yulu Gao and Liangliang Liu (Nanjing University of Aeronautics and Astronautics)
- S22-6** **Lumped Port Modeling for Frequency-Domain Finite Element Method**
17:10 Yu Hang and Zhenhong Fan (Nanjing University of Science and Technology)

8:00 - 10:00, Mon, Aug 24, 2026

Session: S23

Heterogeneous RF Packaging

Room: Room A

- Chairs:** Lina Ma (Nanjing University of Aeronautics and Astronautics)
Yue Zhang (East China University of Science and Technology)
Zong-Rui Xu (City University of Hong Kong)
- S23-1 Research Advances on Memristive Switches for Reconfigurable RF Front-Ends**
- 8:00 Zong-Rui Xu (City University of Hong Kong); Ken Ning and Zehai Shi (Shenzhen University)
- S23-2 Advanced Large-Scale LEO SATCOM Phased Arrays: Opportunities and Challenges**
- 8:15 Hao Jiang and Yongxin Guo (City University of Hong Kong)
- S23-3 Investigation on Transmission and Radiation Characteristics for Bent Transmission Lines**
- 8:30 Hanyu Liu (East China University of Science and Technology); Lina Ma (Nanjing University of Aeronautics and Astronautics); Yue Zhang (East China University of Science and Technology)
- S23-4 Advance Packaging Technology Based Planar Millimeter-Wave Antennas-in-Package for in-Band Full-Duplex Integrated Sensing and Communication**
- 8:45 Lina Ma (Nanjing University of Aeronautics and Astronautics); Yue Zhang (East China University of Science and Technology)
- S23-5 W-Band Bonding Wire Compensation Structure Using Double-Layer Defected Ground**
- 9:00 Wei Hong Liu, Yiyong Guo, Tianxi Ju, Fengyan Tian, Lei Zhou and Jialun Du (Xi'an University of Posts & Telecommunications)

S23-6 Energy Efficiency Ratio Optimization and 3D Heterogeneous Integration for Ultra-Low-Power SWIPT System

9:15 Yonghe Zhuang (Southeast University & Anhui Province Key Lab of Microsystems); Hanzi Sun and Hao Zhang (Anhui Province Key Lab of Microsystems); Yuxuan Deng (City University of Hong Kong); Kaizhao Zhang (Anhui Province Key Lab of Microsystems); Xiao Dong Huang (Southeast University)

S23-7 Low-Loss Z-Shaped Matching Vias for Ka-Band SWIPT Interconnection on AlN-HTCC

9:30 Yonghe Zhuang (Southeast University & Anhui Province Key Lab of Microsystems); Hanzi Sun and Kaizhao Zhang (Anhui Province Key Lab of Microsystems); Xiao Dong Huang (Southeast University); Hao Zhang and Ning Wang (Anhui Province Key Lab of Microsystems)

8:00 - 10:00, Mon, Aug 24, 2026

Session: S24

Microwave Absorbers and Low-RCS Antennas

Room: Room B

- Chairs:** Tian-Xi Feng (Dalian University of Technology)
Meijun Qu (Communication University of China)
- S24-1** **A Three-Layer Frequency-Selective Surface Radome with Wideband Transmission and Low Scattering**
- 8:00 Li Peng, Guangshang Cheng, Guanghui Xu and Zhixiang Huang (Anhui University)
- S24-2** **A Low-Profile High-Gain and Low-RCS Antenna Array Integrated with Polarization Conversion Metasurface**
- 8:15 Dong-Sheng Liu, Tian-Xi Feng and Hui Li (Dalian University of Technology)
- S24-3** **A Wideband Dual-Polarized 3-D Microwave Absorber with Large Angular Stability**
- 8:30 Jing-Wen Yan, Tian-Xi Feng and Hui Li (Dalian University of Technology)
- S24-4** **A Wideband Low-Profile Circularly Polarized Array with Broadband RCS Reduction**
- 8:45 Jia-Hao Zhu, Tian-Xi Feng and Hui Li (Dalian University of Technology)
- S24-5** **A Three-Dimensional Ultra-Broadband Metamaterial Absorber Based on ITO Resistive Film**
- 9:00 Yinlong Li, Junyang Li, Chenshuo Zhang, Wenchang Zhu, Hongyi Li, Zechen Tian and Liangliang Liu (Nanjing University of Aeronautics and Astronautics)
- S24-6** **Design of a Multiband Metamaterial Absorber Using Hexagonal Inductive Loop and Dual-Layer Resistive Films with Honeycomb Dielectric**
- 9:15 Xingyu Li (BeiHang University)

8:00 - 10:00, Mon, Aug 24, 2026

Session: S25

RF Energy Applications

Room: Room C

- Chairs:** He Guan (Northwestern Polytechnical University)
Hao Zhang (Nanjing University of Science and Technology)
- S25-1** **Design of a Low-Cost 100 W Power Amplifier Based on LDMOS Transistors**
8:00 Xin Tong, Zhiwei Liang, Haodong Li, Hao Zhang and He Guan (Northwestern Polytechnical University); Liqing Wang (Jiangsu Shenzhou Semiconductor Technology Co. Ltd)
- S25-2** **Pixelated Doherty Power Amplifier Design Using an Enhanced CNN-Based Optimization Strategy**
8:15 Zhiwei Liang, Haodong Li and Xin Tong (Northwestern Polytechnical University); Qiaoxing Yin (Jiangsu Shenzhou Semiconductor Technology Co., Ltd.); Hao Zhang (Northwestern Polytechnical University)
- S25-3** **Exploit Power Management Strategy for Simultaneous Ambient RF Energy Harvesting and Ultra-Low nW-Level Backscattering**
8:30 Jiaxian He, He Guan and Zhuoya Wang (Northwestern Polytechnical University) and Hao Zhang (Nanjing University of Science and Technology); Yin Xiao Yang and Yang Jie (Matrix Technology (Jiangsu) Co. Ltd.)
- S25-4** **Rolling-Structure Tribovoltaic Nanogenerator for High Speed Vibration Energy Harvesting**
8:45 Junjie Wu and Bing Wei (Xidian University); Di Guo (Beijing Institute of Nanoenergy and Nanosystems)
- S25-5** **Extremely Large-Scale Electromagnetic Analysis and Multiphysics Modeling Based on an Enhanced DGTD Algorithm**
9:00 Qiwei Zhan, Zhenzuo Si and Haoqiang Feng (Zhejiang University)

8:00 - 10:00, Mon, Aug 24, 2026

Session: S26

AI Enhanced RF Simulations

Room: Room D

- Chairs:** Yunyun Hu (Tongji University)
Yiqian Mao (Southeast University)
Qingtao Sun (Eastern Institute of Technology, Ningbo)
Dezhi Wang (Eastern Institute of Technology)
- S26-1 Deep Learning-Based Rapid Imaging for Towed Transient Electromagnetic Data**
- 8:00 Ruiqi Wang, Yunhe Liu, Changchun Yin, Yang Su, Xiuyan Ren and Bo Zhang (Jilin University)
- S26-2 A Physics-Driven Neural Network Method for Electromagnetic Inverse Scattering Problems**
- 8:15 Yunyun Hu, Hui Wang, Qing He and Mei Song Tong (Tongji University)
- S26-3 Fast 3D Modeling of Electromagnetic Logging Responses in Complex Media**
- 8:30 Qingtao Sun (Eastern Institute of Technology, Ningbo)
- S26-4 An LLM-Driven Intelligent Agent Framework for Automated Electromagnetic Simulation**
- 8:45 Yisong Liu, Daoqi Liu, Maokun Li, Fan Yang and Shenheng Xu (Tsinghua University)

10:20 - 12:20, Mon, Aug 24, 2026

Session: S27

PA and Linearization

Room: Room A

- Chairs:** Renlong Han (Nanjing University of Aeronautics and Astronautics)
Jingyuan Zhang (Nanjing University of Aeronautics and Astronautics)
- S27-1 Research on Reconfigurable Multi-Mode Filtering CMOS Power Amplifier Chips (Invited)**
- 10:20 Yongle Wu, Zhuoyin Chen, Shuchen Zhen, Xiaopan Chen and Weimin Wang (Beijing University of Posts and Telecommunications)
- S27-2 Error-Driven Dynamic Classification for Digital Predistortion of RF Power Amplifiers**
- 10:40 Hao Chang (University of Science and Technology of China); Renlong Han (Nanjing University of Aeronautics and Astronautics); Qianqian Zhang (University of Science and Technology of China); Junsen Wang (University of Science and Technology of China & Eastern Institute of Technology); Chengye Jiang and Falin Liu (University of Science and Technology of China)
- S27-3 Gated Dynamic Generalized Memory Polynomial for Digital Predistortion of RF Power Amplifiers Under Dynamic Transmission Configurations**
- 10:55 Junsen Wang (University of Science and Technology of China & Eastern Institute of Technology); Qianqian Zhang and Chengye Jiang (University of Science and Technology of China); Renlong Han (Nanjing University of Aeronautics and Astronautics); Hao Chang (University of Science and Technology of China); Kang Zhou (Eastern Institute of Technology, Ningbo); Falin Liu (University of Science and Technology of China)
- S27-4 A Low-Complexity DPD Method with Sidelobe Correction for Fully-Connected Hybrid Beamforming Transmitters**
- 11:10 Renlong Han, Jingyuan Zhang and Si-Ping Gao (Nanjing University of Aeronautics and Astronautics)

- S27-5 A Monte Carlo Elemental Gradient Descent Algorithm for Accelerated Load-Pull Analysis**
- 11:25 Rui Hua, Wen Fan, Tiancheng Zhang, Huaguang Bao and Dazhi Ding (Nanjing University of Science and Technology)
- S27-6 A Low-Complexity Gated Basis-Weighting Model for Behavioral Modeling of RF Power Amplifiers**
- 11:40 Fang Shuxian and Jiaqian Wang (University of Science and Technology of China); Chengye Jiang (National University of Defense Technology); Falin Liu (University of Science and Technology of China)

10:20 - 12:20, Mon, Aug 24, 2026

Session: S28

Microwave and Metamaterial Devices

Room: Room B

- Chair:** Qingsheng Zeng (Eahison Communication Co., Ltd)
- S28-1 Electromagnetic Modeling and Efficient Simulation for Three-Dimensional Textile Devices (Invited)**
- 10:20 Menglin Zhai, Weiqi Bian and Quanming Yang (Donghua University); Rui Pei (Xi'an Jiaotong-Liverpool University); Wei Bing Lu (Southeast University)
- S28-2 A Compact Four-Port UWB MIMO Antenna with Adaptive WLAN Band-Notch Reconfiguration for Medical IoT and WBAN Applications**
- 10:40 Shenxu Wang (Nanjing University of Aeronautics and Astronautics); Jiarui Chen (Southern University of Science and Technology); Zexi Song (Nanjing University of Aeronautics and Astronautics); Qingsheng Zeng (Eahison Communication Co., Ltd); Liangliang Liu and Zhuo Li (Nanjing University of Aeronautics and Astronautics)
- S28-3 Optimised Electrode Design for High-Bandwidth FBAR Resonators in the N79 Band**
- 10:55 Qingsheng Zeng (Eahison Communication Co., Ltd); Yanfeng Liang and Hui Liu (Guangdong Polytechnical Normal University); Jing Li (Eahison Communication Co. LTD Foshan)
- S28-4 Design of N79 Band Low Noise Amplifier Based on SOI CMOS Technology**
- 11:10 Qingsheng Zeng (Eahison Communication Co., Ltd); Haijian Zhao and Hui Liu (Guangdong Polytechnical Normal University); Jing Li (Eahison Communication Co. LTD Foshan)
- S28-5 Joint Design of Angle-Selective Surface and Transmissive Reconfigurable Intelligent Surface for Simultaneous Spatial Filtering and Beamforming**
- 11:25 Qingsheng Zeng (Eahison Communication Co., Ltd); Xiongying Liu (South China University of Technology); Jing Li (Eahison Communication Co. LTD Foshan); Peng Yuan (South China University of Technology)

- S28-6 A Miniaturized Dual-Polarized Angle Selective Surface at X-Band**
- 11:40 Qingsheng Zeng (Eahison Communication Co., Ltd); Xiongying Liu (South China University of Technology); Jing Li (Eahison Communication Co. LTD Foshan); Fengchao Zhou (South China University of Technology)
- S28-7 Electromagnetic Skin: Empowering Future Intelligent Electromagnetic Interfaces**
- 11:55 Qingsheng Zeng and Jing Li (Eahison Communication Co. LTD Foshan); Zhuan Li (Central South University)
- S28-8 Wideband Low-Scattering Frequency Selective Surface with in-Band Transmission**
- 12:10 Jizhong Wang (Nanjing Normal University); Dongxu Yu (Nanjing Research Institute of Electronic Engineering); Jingzhan Shi, Qiang Liu, Na Zhang and Yiping Wang (Nanjing Normal University)

10:20 - 12:20, Mon, Aug 24, 2026

Session: S29

Radiation and Scattering Simulation

Room: Room C

- Chairs:** Lijie Xu (Nanjing University of Posts and Telecommunications)
Yang Bao (Nanjing University of Posts and Telecommunications)
Rongrong Xu (China Aerospace International Holdings Limited)
Bo Li (Nanjing University of Posts and Telecommunications)
- S29-1 **Tightly Coupled Antenna Array Based on MEFAB Technology for Millimeter-Wave Applications (Invited)****
- 10:20 Jiaxu Mu, Lijie Xu, Feng Huang and Bo Li (Nanjing University of Posts and Telecommunications); Rongrong Xu (China Aerospace International Holdings Limited)
- S29-2 **Wideband EM Scattering Analysis Based on H-Matrix Algorithm****
- 10:40 Jianhao Cai, Yuting Shen, Yan Wang and Yang Bao (Nanjing University of Posts and Telecommunications)
- S29-3 **Co-Simulation Design of a Nonreciprocal Spatial-Control Unit Cell Based on an Active Quasi-Circulator****
- 10:55 Zhewen Li and Yumei Chang (Nanjing University of Posts and Telecommunications)
- S29-4 **A Compact X-Band Filter Chip Using Copper-Based 3D Printing Micromachining Technology****
- 11:10 Peng Chen, Zhitao Ju and Feng Huang (Nanjing University of Posts and Telecommunications)
- S29-5 **A Design Method of Quasi-Elliptic Lowpass Filter Based on OS-RCLC Structure and Its Implementation Using Micro-Coaxial Transmission Line Technology****
- 11:25 Haobin Wu, Jinping Yang, Lijie Xu, Xiuyun Lu, Lina Duo and Can Xu (Nanjing University of Posts and Telecommunications)

- S29-6 A Compact Cosecant-Squared Beam Antenna Array with Low Sidelobe
Based on E-Field Simulation and Optimization**
- 11:40 Peng Xu (Jiangsu Maritime Institute); Yan Dong and Xiao Cai (Nanjing
University of Information Science and Technology)
- S29-7 A New Automated Modeling and Simulation Tool for Waveguide Rotman
Lenses**
- 11:55 Can Xu, Lina Duo, Jinping Yang, Haobin Wu, Yin Ji and Erlei Chen (Nanjing
University of Posts and Telecommunications)

10:20 - 12:20, Mon, Aug 24, 2026

Session: S30

Nonlinear Circuits and Antennas

Room: Room D

- Chairs:** Yu Jian Li (Beijing Jiaotong University)
Yonghao Jia (Southeast University)
Fan Wu (Southeast University)
- S30-1** **Discrete Dispersion Modulation on a Single-Conductor Goubau Line for Realizing Beam-Scanning Antennas (Invited)**
10:20 Shiquan Wang (Nanyang Technological University)
- S30-2** **A Millimeter-Wave Simple Gain Reconfigurable Antenna Array with Scenario Adaptability**
10:40 Xin Bu, Yu Jian Li and Jun Hong Wang (Beijing Jiaotong University)
- S30-3** **Design of a Reflector Antenna Integrated with Solar Panels**
10:55 Maoyuan Sun and Qian Chen (Anhui University)
- S30-4** **A Design of an Airborne Knife-Shaped Antenna for the C-Band**
11:10 Zhihui Wang, Lei Qian, Jiebing Chan, Haoxuan Li and Luyu Zhao (Anhui University)
- S30-5** **Circular Shaped Antenna Array Design for Drone Wireless Systems**
11:25 Zaheer Ahmed Dayo (Huanggang Normal University); Permanand Soothar (Mehran University of Engineering and Technology Jamshoro Sindh Pakistan); Ahmed Jamal Abdullah Al-Gburi (Asia Pacific University, Jalan Teknologi); Zhonglin He (Huanggang Normal University)
- S30-6** **A Flexible Dual-Band Wearable Bowtie Antenna Based on Artificial Magnetic Conductor for WBAN Applications**
11:40 Wenjie Li (Nanjing University of Aeronautics and Astronautics)
- S30-7** **ME-PML Implementations for Efficient Leapfrog Complying-Divergence Implicit FDTD Method**
11:55 Anhong Yang and Yong-Dan Kong (South China University of Technology)
- S30-8** **A 3-D Printed Ultra-Wideband Circularly Polarized Complementary Source Antenna Array**
12:10 Zhengrong Lu, Yu Jian Li and Jun Hong Wang (Beijing Jiaotong University)

13:30 - 15:30, Mon, Aug 24, 2026

Session: S31

Implantable Wireless Charging and Monitoring

Room: Room A

- Chairs:** Cancan Rong (China University of Mining and Technology)
Ren Xuancheng (National University of Singapore)
Zhenyu Zhao (National University of Singapore)
- S31-1 Design of a GaN-Based Class-E Inverter for Wireless Power Transfer Systems Targeting High-Power Implantable Medical Devices**
- 13:30 Chengtao Wang and Xianzhong Tian (City University of Hong Kong Qingdao Research Institute); Deng Yuxuan (City University of Hong Kong)
- S31-2 Real-Time Vital Sign Monitoring System Using Metamaterial-Based Sensors in IoT Applications**
- 13:45 Van Linh Pham, Saiful Islam and Hyoungsuk Yoo (Hanyang University)
- S31-3 A Real-Time Wearable System for Obstructive Sleep Apnea Monitoring and Severity Classification Using HR and SpO2**
- 14:00 Jingwen Zhang, Jinhang Zhang, Yongqing Wang and Qisheng Zhang (China University of Geosciences (Beijing))
- S31-4 Structural Design and Optimization of Microfluidic Sensors for Glucose Concentration Measurement**
- 14:15 Jiahe Guo, Chuhan Liang, Zhonghua Wu, Xiaoling Sun, Guolong Li and Xiangkun Kong (Nanjing University of Aeronautics and Astronautics)
- S31-5 Guidance of Focused Microwave Hyperthermia by Deep-Learning-Enabled Microwave-Induced Thermoacoustic Tomography**
- 14:30 Xuanyu Wang and Xiong Wang (ShanghaiTech University)
- S31-6 Electromagnetic Diffractive Neural Networks for Communications and Sensing**
- 14:45 Qian Ma, Yuming Ning and Tie Jun Cui (Southeast University)

13:30 - 15:30, Mon, Aug 24, 2026

Session: S32

EM Monitoring and Diagnosis

Room: Room B

- Chairs:** Tianyu Gao (Harbin Institute of Technology)
Yongqi Chang (Harbin Institute of Technology)
- S32-1 Accelerated SBR Method Based on the JAUMIN Framework for Antenna Isolation Analysis on Electrically Large Platforms**
- 13:30 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)
- S32-2 Study on near-Field Electromagnetic Scattering Characteristics of Targets Based on SBR**
- 13:45 Zhe Li (Xi'an University of Electronic Science and Technology)
- S32-3 Frame Hopping Method for Analysis of Broadband Electromagnetic Scattering of Uniformly Moving PEC Objects**
- 14:00 Guomin Liu and Gaobiao Xiao (Shanghai Jiao Tong University)
- S32-4 An Efficient Single Source Equivalence Principle Method for Solving Composite Objects**
- 14:15 Hanru Shao (University of Electronic Science and Technology of China)
- S32-5 An XAI-Driven Hybrid CNN-Transformer Framework for Automated Gastrointestinal Cancer Classification**
- 14:30 Manasa Reddy (Bharath Institute of Higher Education and Research)
- S32-6 Ultrabroadband Imaging Meta-Illusion via Composite Dispersion Tailoring**
- 14:45 Tong Cai and Hailin Huang (Air Force Engineering University)

13:30 - 15:30, Mon, Aug 24, 2026

Session: S33

mmWave Circuits and Arrays

Room: Room C

- Chairs:** Ya Fei Wu (UESTC)
Manting Wang (City University of Hong Kong)
Zhongqian Niu (University of Electronic Science and Technology of China)
- S33-1 Design of a Fundamental Mixer Based on Schottky Diode**
13:30 Ge Liu, Yue He, Ren Zhou and Jun Jiang (China Academy of Engineering Physics)
- S33-2 Design of Waveguide-Microstrip Transition Structure for 36~67 GHz Applications**
13:45 Luo Zexu (Chongqing University of Posts and Telecommunications)
- S33-3 Design an Electronic Phase Shifter with Low Insertion Loss**
14:00 Aming Zhao, Lin Meng and Hailong Li (University of Electronic Science and Technology of China); Jin Meng (Naval University of Engineering); Keqiang Wang (Qianyuan Laboratory)
- S33-4 A Low-Complexity 2-Bit Circularly Polarized Reflective Metasurface Element Using a Sectorial Patch with Reduced PIN Diodes**
14:15 Xinyi Wang (Southeast University)
- S33-5 Research Progress on RCS-Controlled Planar Arrays**
14:30 Lijie Chen and Zhaowang Cao (Huazhong University of Science and Technology); Gengjiang Yao (China Ship Development and Design center); Ling Miao (Huazhong University of Science and Technology); Long Xiao (China Ship Development and Design Center); Jianjun Jiang (Huazhong University of Science and Technology)
- S33-6 Concentric Ring Array Synthesis Using an Improved Quantum Genetic Algorithm**
14:45 Zhang Yiquan, Maocheng Gao and Yajing Zheng (AVIC Research Institute for Special Structures of Aeronautical Composite)

13:30 - 15:30, Mon, Aug 24, 2026

Session: S34

ISL Circuits and Systems

Room: Room D

Chairs: Yongqiang Wang (Tianjin University)

Yuefeng Hou (Tianjin University)

Yi Wu (Tianjin University)

**S34-1 Millimeter-Wave CMOS Integrated Phased-Array ICs and Antennas
(Invited)**

13:30 Dixian Zhao (Southeast University)

**S34-2 Spectral-Envelope Analysis of Chebyshev-Accelerated Iterative Analytical
Modeling for Multiconductor Transmission Line Field Coupling**

13:50 Mingyue Gou, Yanzhao Xie and Jun Guo (Xi'an Jiaotong University)

**S34-3 High-Efficiency Three-Layer All-Metal MISL X-Band Four-Way
Traveling-Wave Power Combiner with Integrated Waveguide I/O**

14:05 Peiyi Yu, Yongqiang Wang and Kaixue Ma (Tianjin University)

**S34-4 A High-Efficiency Class-F PA with Coupled-Line Matching Network Based on
SISL Platform**

14:20 Kaiyang Fu, Ningning Yan and Kaixue Ma (Tianjin University)

**S34-5 Design of Third-Order Quint-Band SIW Bandpass Filter Based on Suspended
Loaded Resonators**

14:35 Yang Yang (Guilin Institute of Information Technology) and Shuyao Liu
(Chengdu Foreign Languages School); Sun Liang (Chengdu Sheenst
Technology Co. Ltd)

S34-6 Design of a Low-Loss LTCC Bandpass Filter with Four Transmission Zeros

14:50 Qin hao Wen, Bo Yuan and Gaofeng Wang (Hangzhou Dianzi University)

15:50 - 17:50, Mon, Aug 24, 2026

Session: S35

Intelligent EM Sensing

Room: Room A

- Chairs:** Zhou Shu (Xidian University)
Zhicheng Dong (Xidian University)
Yongqing Wang (China University of Geosciences)
- S35-1 Research on Rapid Detection Methods for Antarctic Subglacial Lakes Based on Controlled-Source Ultra-Audio Magnetotellurics**
15:50 Ruan Hongyu (China University of Geoscience (Beijing)); Keyu Zhou (Institute of Acoustics, Chinese Academy of Sciences); Qisheng Zhang and Yongqing Wang (China University of Geoscience (Beijing))
- S35-2 Broadband Seismo-Electromagnetic Multi-Parameter Intelligent Cooperative Sensing System**
16:05 Jinhang Zhang, Yongqing Wang, Jingwen Zhang, Hongyu Ruan and Qisheng Zhang (China University of Geosciences (Beijing))
- S35-3 Research on Microseismic Detection System Based on Internet of Things**
16:20 Ziyang Wang, Yongqing Wang, Hongyu Ruan and Jingwen Zhang (China University of Geosciences (Beijing))
- S35-4 An Antarctic Subglacial Lake-Oriented Hybrid Networking Data Transmission System**
16:35 Xinyan Hu, Jinhang Zhang, Yongqing Wang, Tianjun Sun and Qisheng Zhang (China University of Geosciences (Beijing))
- S35-5 A 17-19-GHz LC VCO Embedded 8-Shape Inductor with Tuning-Free Explicit and Implicit Common-Mode Resonance Extension in 28-nm CMOS**
16:50 Lei Zhou, Zhicheng Dong, Haohang Wang, Yangfan Zhang, Zhou Shu and Shubin Liu (Xidian University)
- S35-6 Microseismic Event Classification Based on a VGG Architecture**
17:05 Wenjie Deng, Yongqing Wang, Tianjun Sun, Hongyu Ruan, Jinhang Zhang and Qisheng Zhang (China University of Geosciences (Beijing))

**S35-7 Decoupled Rectified Flow Model with Line-Gated Mechanism for FMCW
Radar Interference Mitigation**

17:20 Jiabao Chen, Guangzhi Chen, Youlong Weng and Yaru Zhang (Beihang
University)

15:50 - 17:50, Mon, Aug 24, 2026

Session: S36

Antenna and Microwave Devices

Room: Room B

- Chairs:** Ziheng Ding (City University of Hong Kong)
Han Wang (City University of Hong Kong)
Xu Yan (Harbin Institute of Technology (Shenzhen))
- S36-1 Wideband Self-Decoupled Integrated Loop MIMO Antenna Based on Multi-Mode Cancellation Method**
- 15:50 Libin Sun and Lin-Sheng Wu (Shanghai Jiao Tong University); Zhijun Zhang (Tsinghua University)
- S36-2 A Flexible Coplanar Waveguide Broadband Miniaturized Positioning Antenna**
- 16:05 Hang Mei, Xiaoying Zuo, Mengxin He, Yajian Li, Jiapei Dong, Juntao Cao, Zelin Sun and Chunqian Zhang (Beijing Information Science and Technology University)
- S36-3 A Compact and Flexible Pattern-Reconfigurable Patch Antenna for on- and off-Body Communication**
- 16:20 Yuman Liu (Chongqing University); Ziheng Ding, Jingyi Shi, Han Wang and Yongxin Guo (City University of Hong Kong)
- S36-4 Design of Compact, Dual-Band, Broadband Antenna for WiFi 8 and 6G Upper Mid-Band Applications**
- 16:35 Yaqing Yu and Ying Li (Chongqing University of Posts and Telecommunications)
- S36-5 Spectrum-Shaped Wireless Transmission Based on Programmable Metasurfaces**
- 16:50 Jiachen Wang, Jun Yan Dai and Qiang Cheng (Southeast University)
- S36-6 A Three-Dimensional Ultra-Wideband Electromagnetic Functional Structure**
- 17:05 Min Shi (AVIC Research Institute for Special Structures of Aeronautical Composite Jinan)

**S36-7 Design of a Tunable Frequency Selective Surface with Controllable
Electromagnetic Responses**

17:20 Mengyuan Li and Yiquan Zhang (AVIC Research Institute for Special
Structures of Aeronautical Composite Jinan)

15:50 - 17:50, Mon, Aug 24, 2026

Session: S37

Microwave Imaging

Room: Room C

- Chairs:** Naike Du (Beijing Institute of Technology)
Xiuzhu Ye (Beijing Institute of Technology)
- S37-1** **Advances in Electromagnetic Inverse Scattering and Through-Wall Radar Sensing (Invited)**
- 15:50 Xiuzhu Ye (Beijing Institute of Technology)
- S37-2** **Engineering-Optimized Joint-GLMB for Real-Time Through-Wall Multi-Target Tracking**
- 16:10 Guangzhong Zhang, Naike Du, Xiuzhu Ye and Yutong Gao (Beijing Institute of Technology)
- S37-3** **Lightweight Neural Network-Based Through-Wall Human Target Detection and FPGA Implementation**
- 16:25 Yutong Gao, Guangzhong Zhang, Naike Du and Xiuzhu Ye (Beijing Institute of Technology)
- S37-4** **Towards a Comprehensive Snowpack Scattering Model Coupling Volume and Surface Scattering in a Radiative Transfer Framework**
- 16:40 Weibo Yuan, Yuanhao Cao and Shurun Tan (Zhejiang University)
- S37-5** **SAR Imaging Jamming Based on Dual-Dimensional Phase Modulation of Digital Coding Metasurface**
- 16:55 Mengke Sun, Qun Yan Zhou, Huidong Li, Shuo Liu, Jun Yan Dai and Qiang Cheng (Southeast University)
- S37-6** **P-WSMWA: A Hybrid MPI+OpenMP Parallel Wideband Sherman-Morrison-Woodbury Algorithm for Electromagnetic Scattering Analysis**
- 17:10 Cao Sheng and Jingjing Liu (Nanjing University of Aeronautics and Astronautics)

15:50 - 17:50, Mon, Aug 24, 2026

Session: S38

mmWave/THz Sources

Room: Room D

Chairs: Wenxin Liu (AIRCAS)

Ziran Zhao (Tsinghua University)

**S38-1 High-Power-Capability and High-Power-Gain Switched Energy Storage
Microwave Pulse Compressor Using a Switch Cavity Located near the Wave
Node**

15:50 Cuiqin Xie and Wenli Liang (Anhui University of Applied Technology); Zijiang
Zhang (University of Science and Technology of China); Weihao Liu (Nanjing
University of Aeronautics and Astronautics)

**S38-2 A Parameter-Optimized FDTD Method for Reducing Numerical Dispersion
in Debye Media**

16:05 Ying Huang and Yong-Dan Kong (South China University of Technology)

**S38-3 P Well Boron Modulated Opposite Polarity Disturb in 2T SONOS Embedded
Flash Cells**

16:20 Mou Yichun (City University of Hong Kong)

S38-4 Sub-Terahertz Polymer Dielectric Waveguides and the Transitions

16:35 Xiaochun Li (Shanghai Jiao Tong University)

S38-5 Ultra-High-Speed UTC-PD for Terahertz Mixing

16:50 Baile Chen (Shanghai Tech University)

Poster Session

P01 (Saturday, August 22 13:30 - 15:30)

Poster & Exhibition Area

- P01.1 ***A Waveform-Independent High-Resolution Range Profile Deception Method Based on True Time Delay***
Xingjian Shen, Fengyuan Guo, Yonggeng Zhu, Mengmeng Li, Jihong Gu and Dazhi Ding (Nanjing University of Science and Technology)
- P01.2 ***A Compact Circularly Polarized Antenna with Half Metallic Bezel for Wearable Smartwatch Direct-to-Satellite Communications***
Yunjiao Tang, Libin Sun, Lin-Sheng Wu and Gaobiao Xiao (Shanghai Jiao Tong University)
- 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)
- 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)
- 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)
- 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); Junjun Zhao (Jiangsu Shenzhou Semiconductor Technology Co. Ltd)
- 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)
- P01.8 ***Ultra-Low Parasitic Inductance Hybrid Packaging for SiC Devices Using Liquid Crystal Polymer (LCP)***
Shaotong Yang and Yan Li (China Jiliang University); Er-Ping Li (Zhejiang University)
- 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)
- 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)
- P01.11 ***Accelerating Wideband Frequency Sweeps via Learned History-Subspace Warm Starts***
Haoran Sun, Maokun Li, Fan Yang and Shenheng Xu (Tsinghua University)

- 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)
- P01.13 ***Angle-Spectral Joint Sensing via Bound States in the Continuum Metasurfaces***
Ruifeng Liu (Tsinghua University); Meng Chen (Nuctech Ltd.); Yingxin Wang and Ziran Zhao (Tsinghua University)
- P01.14 ***WiFi-CSI-Based Edge Activity Recognition with a Lightweight CNN-GRU Network***
Chongrui Wang and Yan Shi (Xidian University)
- 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)
- P01.16 ***Independent DOA Estimation for Dual-Polarized Waves via Programmable Metasurface***
Qian Zhu, Han Wei Tian, Chao Song, Ya Li Zhao and Wei-Xiang Jiang (Southeast University)
- 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)
- P01.18 ***A Parallel Mesh Refinement Method with Local Body-Fitted Correction for Large-Scale Electromagnetic Scattering***
Tianbo Shang, Yongjia Sun and Pei-Yao Chen (University of Electronic Science and Technology of China); Xiaoyu Zhang and Mengmeng Li (Nanjing University of Science and Technology); Sheng Sun (University of Electronic Science and Technology of China)
- P01.19 ***An Efficient Multilevel Macro Basis Function Method for Large-Scale Finite Periodic Arrays***
Si Jia Guo and Yu Mao Wu (Fudan University)
- P01.20 ***Electric Fast Near-Field Transformation on Arbitrary Measurement Surfaces***
Yue Guo, Xiaowei Huang and Xin-Qing Sheng (Beijing Institute of Technology);
- P01.21 ***Spatial Phase Pre-Compensation for High-Gain Radiation Antenna in Non-Uniform Plasma Environments***
Yuhang Shi and Jinjun Mo (Guilin University of Electronic Technology)
- 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)
- 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)
- P01.24 ***Neural Network-Based Adaptive Source Placement for the Multifilament Current Method with Arbitrary Boundaries***
Liu Xiaojie (Peng Cheng Laboratory & Shenzhen University); Kai Wang (Peng Cheng Laboratory); Sai-Wai Wong (Shenzhen University); Xiaohu Wu and Ye Wang (Peng Cheng Laboratory)

- 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)
- 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)
- P01.27 ***Electrothermal Co-Simulation of Array Structures Based on Periodic Boundary Conditions***
Linpeng Yu, Hao-Xuan Zhang and Wen-Yan Yin (Zhejiang University)
- P01.28 ***Power Integrity Modeling and Analysis for Memristor in Neuromorphic Array Circuits***
Shuoxin Ji, Jiarui Qiu, Yuankai Xie and Hanzhi Ma (Zhejiang University)
- P01.29 ***Aperture Enlargement of Mobile Antenna Using Wearable Textile Metasurfaces***
Xianghui Qiu (Harbin Engineering University); Shuai S. A. Yuan, Mohammadmahdi Asgari, Francisco S. Cuesta and Sergei Tretyakov (Aalto University); Xuchen Wang (Harbin Engineering University); Viktor Asadchy (Aalto University)
- P01.30 ***A Directly Amplifier-Integrated Antenna with Filtering Response and High Efficiency***
Xiao Li and Qingle Zhang (Shenzhen University)
- P01.31 ***Generalized RWG Basis Functions for Broadband Electromagnetic Analysis***
Yinyin Ma, Zhenhong Fan and Mingxuan Zhang (Nanjing University of Science and Technology)
- 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)
- 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)
- P01.34 ***Design of a High-Performance Broadband Frequency Source***
Liangcheng Hou (University of Electronic Science and Technology of China); Daotong Li (Chongqing University); Zuqiang Ou, Jincai Qiao, Zhongqian Niu and Bo Zhang (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); Rui Pei (Xi'an Jiaotong-Liverpool University); Wei Bing Lu (Southeast University)
- P01.36 ***Pattern Null Optimization Based on Covariance Matrix Adaptation Evolution Strategy***
Yiping Liu, Yanshuo Shen and Li Zhang (Xidian University)
- 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); Huiping Yang (South China Normal University); Yong Dai (Guangdong Shenglu Telecommunication Technology Company); Geng-Bo Wu (City University of Hong Kong); Hua Yang (Guangdong Shenglu Telecommunication Technology Company)

- P01.38 ***A V-Band GaN Oscillator Based on Computational Oscillation Model***
Hanze Chen, Wenwei Gong and Xinxing Li (Suzhou Institute of Nano-tech and Nano-bionics, Chinese Academy of Sciences); Yi Pei (Dynax); Hua Qin and Jiandong Sun (Suzhou Institute of Nano-tech and Nano-bionics, Chinese Academy of Sciences)
- P01.39 ***A Direct Matrix Solution for Spherical Spiral Near-Field Antenna Measurements***
Xin Yang, Jiangling Xie, Rui Chen, Liling Zhou and Yang Huang (China Automotive Engineering Research Institute Co., Ltd.)
- P01.40 ***A Data-Driven Framework for IGBT Junction Temperature Monitoring and Lifetime Estimation Using LSTM Networks***
Li Tan-Yi, PengFei Liu, Li Guisheng, Wang Xuan, Peng Peng, Li Shaojia, Liheng Zhu and Qin Rongzhen and Huazhi Xiang (State Key Laboratory of Advanced Power Semiconductor Devices & Zhuzhou CRRC Times Semiconductor Co. Ltd); Wen-Yan Yin (Zhejiang University)
- P01.41 ***Low-Profile Magnetic Dipole Antenna with an Obtuse Triangular Structure***
Kebing Meng, Mengyao Hu, Xingbao Lin and Zibin Weng (Xidian University)
- P01.42 ***Broadband MIMO Antenna Design Based on the Multi-Stub Loading Technique***
Mengyao Hu, Kebing Meng, Xiongfei Long and Zibin Weng (Xidian University)
- 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); Qian Wang (AVIC Research Institute for Special Structures of Aeronautical Composites); Zhun Wei and Wen-Yan Yin (Zhejiang University)
- P01.44 ***An SVD-DNN Hybrid Reduced-Order Model for Multiphysics Simulation of Chiplet-Integrated Silicon Devices***
Zhifa Zhang, Nian-En Zhang and Wen-Yan Yin (Zhejiang University)
- P01.45 ***Silicon-Based Lumped-Distributed on-Chip Millimeter-Wave Wideband Filter***
Bukun Xu (South China University of Technology); Xin Gao (Shanghai Institute of Satellite Engineering); Wenjie Feng (South China University of Technology)
- P01.46 ***Performance Analysis of E-Field and H-Field Antennas for eLoran Propagation Delay Measurement***
Jiaxin Song, Zhenzhu Zhao, Yurong Pu and Xi Xiaoli (Xi'an University of Technology)
- P01.47 ***Optimized Dipole Group Selection Strategy for Chip Electromagnetic Analysis Based on Surface Scanning Equivalent Source***
Shuo Wang and Hong Yang (China Electronics Standardization Institute (CESI))
- P01.48 ***A Fast 3-D Electromagnetic Frequency-Domain Solver Based on Matrix Frequency Decomposition***
Kehua Chen, Na Bai and Naixing Feng (Anhui University)
- P01.49 ***Efficient Optimization of High-Gain Dual-Lens Antennas Based on Co-Evolutionary Algorithm***
Chen Wang and Lin Peng (Guilin University of Electronic Technology)
- 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); Yilu Li and Xing Zhao (Institute of Microelectronics of Chinese Academy of Sciences); Hao-Ran Zhu (Anhui University)

- P01.51 ***A Reconfigurable Metasurface Integrating Sensing, Communication, and Beamforming for Passive IoT***
Miao Li, Yi Zhou, Han Qing Yang, Lijie Wu, Rui Bi, Shao Nan Chen and Jun Yan Dai (Southeast University); Jitong Ma (Dalian University of Technology); Huidong Li and Qiang Cheng (Southeast University)
- P01.52 ***Towards Mesh-Free Simulation and Generative Inversion in Oceanic Electromagnetics***
Xingran Guo, Xiao Tiao Jie, Yu Gu and Jie Liu (National University of Defense Technology); Keqin Li (State University of New York at New Paltz)
- P01.53 ***A Finite-Difference Modal Method for Multimode Field Reconstruction in Evaporation Ducts***
Kuanyi Chen and Bing Wei (Xidian University); Qiang Zhao (China Research Institute of Radiowave Propagation)
- 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)
- P01.55 ***Research on Full-Link Isolation Technology for Large Dynamic Range Digitally Controlled Attenuation Systems***
Zhu Jintao, Tianyu Xu, Mingzhao Song and Xinrui Liu (Harbin Engineering University)
- 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)
- P01.57 ***An Ultra-Wideband Millimeter-Wave Dielectric Rod Antenna***
Feng Cao, Guanghui Xu, Yingsong Li and Zhixiang Huang (Anhui University)
- P01.58 ***A Vertically Symmetric Dual-Array Differential Magnetic Tracking System for Capsule Robots***
Xiaoyang Wu (National University of Singapore); Yongxin Guo (City University of Hong Kong)
- P01.59 ***Surface Current Distribution Analysis of Electrically Large Platforms Using FDTD Method***
Hongyu Zhu (Dongshen Electromagnetic Technology (Chengdu) Co., Ltd.); Zixuan Liu (COMAC Shanghai Aircraft Design & Research Institute); Pengfei Xie and Shasha Zhang (Dongshen Electromagnetic Technology (Chengdu) Co., Ltd.)
- P01.60 ***Simulation and Verification of Radar Scattering Characteristics of Weak Sea Surface Targets***
Jiahao Liu and Peilin Huang (Beihang University); Nan Wu (701 Research Institute)
- P01.61 ***An Efficient LCDI-FDTD Method for Conformal Dielectrics***
Chenshu Liu, Lingpu Zhang, Juan Chen, Kaihang Fan and Chunhui Mou (Xi'an Jiaotong University)
- P01.62 ***A Curved-Corner Gradient-Linewidth Planar Spiral Inductor: Design, Fabrication, and Simulation***
Ziyue Wang, Taixin Zhang and Yifei Zhang (Qingdao University)

Poster Session

P02 (Sunday, August 23 10:20 - 12:20)

Poster & Exhibition Area

- P02.1 ***Mechanical Scanning Probe Lithography of the Van der Waals Heterostructure Nanophotonic Devices***
Prokhor Alekseev (Ioffe Institute)
- 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); Yanli Xiao (Shandong Provincial No. 4 Institute of Geological and Mineral Survey); 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)
- 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)
- 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)
- 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)
- P02.6 ***A Broadband Dual-Polarized Multimode-Composite Antenna for Millimeter-Wave Applications***
Duoyu Lv, Yu Jian Li and Jun Hong Wang (Beijing Jiaotong University)
- P02.7 ***Research on Signal Amplitude Nonlinear Compensation Algorithm in Complex Modulation Systems***
Mingzhe Xu and Xu Tianyu (Ceyear Technologies Co. Ltd); Zhu Jintao (Harbin Engineering University)
- P02.8 ***An Accelerated Genetic Algorithm Framework for ATEM Inversion Leveraging Deep-Learning-Based Forward Emulators***
Siyuan He; Longfei Zhang (Southwest Jiaotong University)
- 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); Yifan Chen (University of Waikato & University of Electronic Science and Technology of China)
- P02.10 ***Millimeter-Wave Packaged Antenna Array Based on MEMS Technology***
Runchao Zhu and Qian Chen (Anhui University)

- 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); Yang Lixia (Jiangsu University); Yingsong Li (Anhui University)
- P02.12 ***Fabrication and Performance of 2D vdW CuInP2S6 with Ferroelectric-Photonic Synergy for Nonvolatile Memory***
 Zengyuan Fang (Guilin University of Electronic Technology); Xingpeng Liu (Guilin University of Electronic Technology)
- 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); Yueming Gao (Fuzhou University)
- 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)
- P02.15 ***A Dual-Circularly Polarized Folded Transmitarray Antenna with Co-Modulation of Amplitude and Phase***
 Yang Cai, Lijun Bu, Hong Ma, Siyu Qi, Yu Tian and Liu Yang (Space Engineering University)
- P02.16 ***Design of a High-Gain Wideband Dual-Polarized Spiral Antenna***
 Ying Li and Yaqing Yu (Chongqing University of Posts and Telecommunications)
- 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 (National Key Laboratory of Proximity Detection and Control)
- 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 (National Key Laboratory of Proximity Detection and Control)
- P02.19 ***Minimum Complete Dataset Construction for Ground Target Scattering: Near-Field Reconstruction and Noise Fusion***
 Tian Bo, He Haijun and Li Wei (National Key Laboratory of Proximity Detection and Control & Xi'an Institute of Electromechanical Information Technology)
- P02.20 ***A 2-18 GHz Ultra-Wideband Distributed Low Noise Amplifier***
 Aqiang Xie, Xiaoguo Huang and Xiaowei Dai (No.36 Research Institute, CETC)
- P02.21 ***Prediction of Time-Varying RCS for Large-Scale UAV Swarm Based on GRU***
 Tiantian Feng, Sihan Zhao, Yuanfei Hui and Haichao Zhong (National Key Laboratory of Proximity Detection and Control)
- P02.22 ***Analysis of Echo Characteristics for Near-Field Dynamic Rendezvous in Composite Scenarios***
 Yuanfei Hui, Tiantian Feng, Sihan Zhao and He Haijun (National Key Laboratory of Proximity Detection and Control)

- P02.23 ***An eLoran ECD Estimation Method Based on Levenberg-Marquardt Waveform Fitting***
Jiaju Zhou, Zhenzhu Zhao, Jiafan Wang, Xi Xiaoli and Dandan Wang (Xi'an University of Technology)
- 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)
- P02.25 ***A Design of Dielectric Rod Antenna with Low Sidelobe***
Jizheng Pei and Xinhua Yu (Guilin University of Electronic Technology); Zongshuai Yu (Shandong First Medical University)
- 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)
- P02.27 ***Expanding the Bandwidth of FeCo-Based Microwave Absorbing Composite Through Metamaterial Design***
Mengchao Guo (National Key Laboratory of Helicopter Aeromechanics, Nanjing University of Aeronautics and Astronautics & State Key Laboratory of Millimeter Waves, Southeast University)
- P02.28 ***Electromagnetic Design and Experimental Validation of a Compact Omnidirectional Magnetic Antenna for Loran-C Reception***
Zhen Zhao (Xi'an University of Technology); Jiuxiang Gao (National Time Service Center, Chinese Academy of Sciences); Xi Xiaoli (Xi'an University of Technology)
- P02.29 ***GPU and Lookup Table Accelerated Nyström Method for Electromagnetic Scattering***
Guopeng Ji, Bing Wei, Jiayu Lyu and Hong Peng (Xidian University)
- P02.30 ***SAR Target Detection Method Based on Frequency-Domain Feature Enhancement***
Hui Xu (Anhui Business and Technology College); Huiyao Wan (Anhui University)
- P02.31 ***AI-Driven Millimeter-Wave Radar Intelligent Sensing for Complex Electromagnetic Environments***
Pengfei Hu, He Haijun, Qingfeng Kong, Zuntian Chen, Mengxin Ma and Bin Gou (National Key Laboratory of Proximity Detection and Control & Xi'an Institute of Electromechanical Information Technology)
- 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)
- P02.33 ***Analysis on Scattering Characteristics of Re-Entry Capsule with Plasma Sheath***
Haiyao Chu, Linqian Li, Minmin Shi and Bing Wei (Xidian University)
- P02.34 ***Analysis of Dynamic RCS Characteristics of a Ship Under Wave-Induced Motion***
Xibo Kang, Hao Wang, Bing Wei and Haoran Wei (Xidian University)
- P02.35 ***A Portable Three-Port Network-Based Inductive Coupling Method for Non-Contact Online Impedance Characterization***
Yexin Xing (Changzhou Vocational Institute of Engineering); Zhenyu Zhao (National University of 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)
- P02.37 ***Analysis of the Influence of Non-Ideal Plane Wave Amplitude Errors on RCS Measurement***
Kunpeng Zhang and Jinjun Mo (Guilin University of Electronic Technology)
- 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); Xianghua Wang, Yunfei Wang and Rui Luo (Tianjin University of Technology and Education)
- P02.39 ***Complex Targets with Non-Ideal Surfaces Modeling and Application in Radar Imaging***
Cunjie Jia, Jiaqi Lu, Guo Kun-yi and Xin-Qing Sheng (Beijing Institute of Technology)
- P02.40 ***A RF-DC Rectifier Circuit for Ambient Internet of Things Chip***
Song Xiangyu, Jiachen Li and Yong Jin Zhou (Shanghai University)
- P02.41 ***Time-Domain Model Study of Schottky Diodes for Microwave Rectifier Design***
YuXian Ye and Pengde Wu (Hangzhou Dianzi University)
- P02.42 ***A Non-Uniform Subgridding FETD Method Based on the Hanging Variable***
Yaxin Wang, Juan Chen, Kaihang Fan and Chunhui Mou (Xi'an Jiaotong University)
- P02.43 ***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)
- P02.44 ***Time-Domain Reflectometer for Non-Destructive Testing of Leakage from Water Pipeline***
Zongyan Hou and Wenzao Shi (Fujian Normal University)
- P02.45 ***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); Hossein Taheri (Georgia Southern University)
- P02.46 ***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); Rui Wu (Zhejiang Grecon Semiconductor); Wen-Yan Yin (Zhejiang University)
- P02.47 ***Design of Ku-Band 8×8 AMC Phased Array Antenna Based on LTCC Process***
Wei Wang; Xun Jiang (Nanjing University of Aeronautics and Astronautics); Guixiang Jin, Zhongliang Li, Weifeng Sun and Zhongyuan Fang (Southeast University); Yu Yang (University of Electronic Science and Technology of China); Yin Li (Southeast University)
- P02.48 ***Research on Broadband Signal Amplitude Detection Technology Based on Multi-Path Attenuation***
Xu Tianyu, Kai Lu and Mingzhe Xu (Ceyear Technologies Co. Ltd)
- P02.49 ***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)

- P02.50 ***Circularly Polarized Filtering Dielectric Resonator Antenna***
Song Zhiwei (Xi'an University of Electronic Science and Technology); Zheng Zhang (Xidian University)
- P02.51 ***High-Precision Electromagnetic Modeling Method for Electrically Large Targets with Complex Structures***
Saihang Qie and Changyou Li (Northwestern Polytechnical University)
- P02.52 ***Numerical Modeling of 2D SH Wave Propagation Based on a Staggered-Grid FDTD Method***
Yue Qin, Fei Yang, Zeya Wang and Yuxian Zhang (Anhui University)
- P02.53 ***High-Linearity Reconfigurable Dual-Band MMIC SPDT Switch Utilizing CCL Structures***
Jiamin Zeng (Harbin Institute of Technology (Shenzhen)); Zhangjian Liang (City University of Hong Kong (Dongguan)); Runchen Zhang (National University of Singapore); Jingyuan Zhang (Nanjing University of Aeronautics and Astronautics); Xu Yan (Harbin Institute of Technology (Shenzhen))
- P02.54 ***A Near-Field SBR Method for Calculating Bistatic Scattered Fields Using Antenna Radiation Patterns***
Yi Wenjing, Hao Wang, Bing Wei and Haoran Wei (Xidian University)
- P02.55 ***Parametric Modeling of Frequency Selective Surfaces Using a Pole-Residue-Based Neuro-TF Model***
Huo Ran and Jinjun Mo (Guilin University of Electronic Technology)
- P02.56 ***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)
- P02.57 ***Directional Sea Surface Reconstruction Based on 2D Inverse Fourier Transform of PM Spectrum***
Jinlin Miao and Jianxin Chen (China Ship Research and Development Academy); Liang Peng (Wuhan Second Ship Design and Research Institute)
- P02.58 ***Three-Dimensional Imaging of Large Target by Wideband Multiple Aspect Electromagnetic Scattering***
Jinlin Miao (China Ship Research and Development Academy); Hongyou Jiang (Beijing Institute of Economics and Management); Liang Peng (Wuhan Second Ship Design and Research Institute)
- P02.59 ***Study on the Electromagnetic Coupled Scattering of the Sea Surface and Ship***
Jinlin Miao (China Ship Research and Development Academy); Hongyou Jiang (Beijing Institute of Economics and Management); Liang Peng (Wuhan Second Ship Design and Research Institute)
- P02.60 ***Model Design and Wave Absorption Performance Analysis of Silicon Carbide Fiber Composite Structure***
Shuhang Yi, Yan Wang, Yilun Zhao, Qinyi Dong, Shennan Guo and Hongcheng Yin (National Key Laboratory of Scattering and Radiation)
- P02.61 ***Simulation and Measurement of L/Q Characteristics for via-Interconnected Planar Spiral Inductors with Multi-Turn Specifications***
Yunhao Wang, Taixin Zhang and Yifei Zhang (Qingdao University)
- P02.62 ***An Automatic Differentiation-Based Dipole Reconstruction Algorithm***
Kenan Wang and Hui Xu (Beihang University)

Poster Session

P03 (Sunday, August 23 13:30 - 15:30)

Poster & Exhibition Area

- P03.1 ***Topological Integrated Photonic Chips for Terahertz Wireless Communications***
Wenhao Wang (Westlake University)
- P03.2 ***Design and Calibration of a PI-Based Flexible Phased Array Under Bending Conditions***
Minxing HE (Southeast University)
- P03.3 ***Tunable Optical Chirality Enhancement in Helicity-Preserving Fabry-Pérot Cavities***
Kliment V. Semushev and Maksim Tumashov (ITMO University); Oleg Blokhin (Moscow Institute of Physics and Technology); Ekaterina E. Maslova (ITMO University); Denis G. Baranov (Moscow Institute of Physics and Technology); Andrey Bogdanov (ITMO University)
- P03.4 ***Passive Reconfigurable Intelligent Surface Based on Movable Metasurfaces***
Weiren Zhu (Shanghai Jiao Tong University)
- P03.5 ***Coupling Surface Waves on Metasurface from an Oblique Incident Wave***
Guoxiang Dong, Bo Xiao, Xin Du and Hongyang Qu (Xidian University)
- P03.6 ***CNN-BPSO Assisted Optimization of Wideband Pixelated Dielectric Resonator Antennas***
Yulong Chen, Lei Li and Honglei Pan (Xidian University)
- P03.7 ***A K/Ku-Band Wideband Dual Circularly Polarized Domino Sparse Array for Satellite Communication***
Han Jiayu, Shichao Jin and Yu-Qian Yang and Yujiao Guo (State Key Laboratory of Space Information System and Integrated Application & Space Star Technology Co., Ltd.); Zhe Cui (Space Star Technology Co., Ltd.); Liyue Zhao, Lin Zhun and Qinglu Wang (State Key Laboratory of Space Information System and Integrated Application & Space Star Technology Co., Ltd.)
- P03.8 ***An AI-Driven Generalizable Surrogate Modeling Framework for Electromagnetic Scattering Analysis***
Wenwei Zhang, Jiaqi Kang, Chenche Zhao and Wenchi Huang (Peking University); Jianing Cao (Beihang University); Huan Wang and Mingyao Xia (Peking University)
- P03.9 ***Asymmetric Self-Biased Magnetoelectric Antenna for Low-Frequency Applications***
Guizhen Long and Jinjun Mo (Guilin University of Electronic Technology)
- 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); Zhipeng Huang (Guilin University of Electronic Technology & Guangxi Academy of Artificial Intelligence); Jinjun Mo (Guilin University of Electronic Technology)
- P03.11 ***Design of a Scalable CBRAM-Based mmWave Crossbar Switch Matrix Monolithically Integrated on Quartz for RF SiP***
ZeHai Shi (Shenzhen University); Zong-Rui Xu (City University of Hong Kong); Ken Ning (Shenzhen University)

- P03.12 ***Low-Temperature Performance of Graphene Terahertz Photothermoelectric Detectors***
Jinduo Zhang, Meng Chen, Yingxin Wang and Ziran Zhao (Tsinghua University)
- 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); Tao Su, Bian Wu, Guangyuan Zhao and QuanLong Wen (Xidian University)
- P03.14 ***Optimization Design of CFRP for EMI Shielding Using Kriging Surrogate Model and NSGA-II***
Yu Wu (Beijing Jiaotong University)
- 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)
- 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)
- P03.17 ***Modular High-Efficiency Dual-Polarized Tightly Coupled Antenna Based on Heterogeneous Dipole***
Jingxian Chen (Shenyang Aircraft Design and Research Institute); Lin Cong (Xidian University); An Bi (Shenyang Aircraft Design and Research Institute)
- P03.18 ***Design of a Dual-Frequency Four-Arm Spiral Antenna with Loop Feeding Based on GPS System***
Yuxiang Yan, Lucong Lu and WeiPing Cao (Guilin University of Electronic Technology)
- 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)
- P03.20 ***A CMOS Wide 9-GHz Bandwidth Two-Stage Common-Source Low-Noise Amplifier Covering 18.6-27.6 GHz***
Zetong Rong, Ze Chen, Shuchen Zhen, Yongle Wu and Weimin Wang (Beijing University of Posts and Telecommunications)
- P03.21 ***Design of a Dual-Port Co-Frequency Coaxial Vehicular Antenna***
Li Ding, Lucong Lu and WeiPing Cao (Guilin University of Electronic Technology)
- 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)
- 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)
- 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)

- 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); Xiaofeng Que (University of Electronic Science and Technology of China); Peihao Xu (AVIC Chengdu Aircraft industrial (Group) Co, Ltd)
- P03.26 ***Dual-Band Transmitarray Antenna Based on Huygens' Principle***
Zhi Han Zhou and Zi Long Ma (South China University of Technology)
- P03.27 ***A K-Band Broadband High-Efficiency Linear Polarization Conversion Metasurface***
ZhongQing Jiang and WeiPing Cao (Guilin University of Electronic Technology)
- P03.28 ***A W-Band Ridge Gap Waveguide Slot Array Antenna with Corporate-Feed Network***
Qiqi Wang and WeiPing Cao (Guilin University of Electronic Technology)
- P03.29 ***A Novel Compact IPD-Process Based Filtering Phase Shifter Chip with Wide Flat Phase-Difference Function***
Siyi Duan, Jie Shi, Xinyu Zhang, Yongle Wu and Weimin Wang (Beijing University of Posts and Telecommunications)
- P03.30 ***Metasurface-Based Folded Transmit-Array Antenna with Polarization Selective Reflection/Transmission***
Shiyun Ma and Xinke Kuang (Xidian University); Kuiwen Xu (Hangzhou Dianzi University); Ying Li (Zhejiang University); Rui Xi (Xidian University)
- 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)
- P03.32 ***Compact Unequal Wideband Non-Quadrature 28-GHz GaAs-IPD Coupler Chip Using Three-Section Coupled Lines and Four Transmission Lines***
Jie Shi, Siyi Duan, Xinyu Zhang, Yongle Wu and Weimin Wang (Beijing University of Posts and Telecommunications)
- P03.33 ***Robust Dual-Band Implantable Antenna for Multi-Organ Digestive Tract Telemetry***
Yutong Tian and Jingchen Wang (Xi'an Jiaotong-Liverpool University); Zhao Wang (Xi'an Jiaotong Liverpool University & University of Liverpool); Rui Pei (Xi'an Jiaotong-Liverpool University); Bintao Hu (University of Liverpool); Wenzhang Zhang (Xi'an Jiaotong-Liverpool University & University of Liverpool); Qian Dong and Eng Gee Lim (Xi'an Jiaotong-Liverpool University)
- 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)
- P03.35 ***Scattering Center Modeling and Fast Computation for Near-Field Coupling Analysis***
Jiaqi Lu, Guo Kun-yi, Cunjie Jia and Xin-Qing Sheng (Beijing Institute of Technology)
- P03.36 ***Nonlinear Distortion Analysis of Reconfigurable Reflectarray with 3D Radiation Patterns***
Yonghao Jia and Xianli Tang (Southeast University)
- P03.37 ***X-Band High-Efficiency GaN MMIC PA Based on Harmonic Suppression***
Chenyu Wu and Yonghao Jia (Southeast University)
- P03.38 ***2-12 GHz GaN SPST/SPDT RF Switch MMIC Design with Inductive Resonator***
Changyun Li and Yonghao Jia (Southeast University)

- 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)
- 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); Peng Bai (Institute of Applied Physics and Computational Mathematics); Yingxin Wang and Ziran Zhao (Tsinghua University)
- P03.41 ***GaAs IPD Based Compact Dual-Port Ultra-Wideband Quasi-Reflectionless Bandpass Filter***
 Kai Chen (South China University of Technology)
- P03.42 ***Design of a PIN-Diode-Based 2-Bit Reflective Metasurface for Beam Scanning***
 Shantong Liu and WeiPing Cao (Guilin University of Electronic Technology)
- P03.43 ***MXene@Permalloy Composite Shielding Layer for X-Band Cable Electromagnetic Protection***
 Wang Yang, Yaoyao Li, Yicong Liu, Haobo Geng and Houpu Xiao (Beihang University)
- P03.44 ***Towards High-Performance Reconfigurable Intelligent Surfaces***
 Xianbo Cao (Xidian University)
- P03.45 ***Fast Electromagnetic-Thermal Field Prediction for 2.5D TGV Packaging Using UNO***
 Anna Dong (Anhui University); Songlin Wei (Xiamen Ocean Vocational College); Naixing Feng (Anhui University)
- 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); Longjiang Chen (China Research Institute of Radio Propagation); Dongxu Wang (Shandong University of Science and Technology)
- P03.47 ***Electromagnetic-Thermal Coupling Analysis of RF Heating in Complex Waveguide-Dielectric Structures Based on VFEM-TSEM***
 Yalan Xiao (Anhui University); Songlin Wei (Xiamen Ocean Vocational College); Na Bai and Naixing Feng (Anhui University)
- 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)
- P03.49 ***Study on Wave-Transparent Performance of High-Temperature Resistant Ceramic Radome***
 Haigang Zhang and Rui Guo (Xi'an Research Institute of Navigation Technology)
- P03.50 ***Design and Comparative Study of Wave-Transparent Composite Material Radome***
 Rui Guo and Haigang Zhang (Xi'an Research Institute of Navigation Technology)
- P03.51 ***Comparison of Methods for Reducing Numerical Dispersion in the FDTD Algorithm***
 Jican Zhang (Southwest University of Science and Technology); Cijun Yan, Ye Zhou and Yifan Lyu (Anhui University); Longjian Zhou (Southwest University of Science and Technology)

- P03.52 ***Thermal Design of Vehicle-Mounted Antenna Array Aperture***
Rui Guo and Tianyu Fang (Xi'an Research Institute of Navigation Technology)
- P03.53 ***A ResMLP-Based Prediction Model for Transient Electromagnetic Disturbance Coupling to Transmission-Line Network***
Chen Yaqi (Xi'an Jiaotong University)
- P03.54 ***A 0.35GHz to 8 GHz Vivaldi Antenna for Antenna Measurement Applications***
Chong-Can Wang, Ying-Xuan Huang, Le-Yan Shen, Guan-Long Huang, Xian-Hui He, Rui-Sen Chen and Qiang Shao (Foshan University); Jia-Jun Liang (Yulin Normal University); Jingtao Zeng (Guangdong Shenglu Telecommunication Technology Company)
- P03.55 ***Design of Miniaturized 4x4 SIW Butler Matrix with Single-Layer Quartz Glass Substrate***
Hao Ma, Ying-Xuan Huang, Le-Yan Shen, Guan-Long Huang, Xian-Hui He, Rui-Sen Chen and Qiang Shao (Foshan University); Jia-Jun Liang (Yulin Normal University); Jingtao Zeng (Guangdong Shenglu Telecommunication Technology Company)
- P03.56 ***Ground Leakage Localization via Dynamic Polyline Trajectory and Electric Field Vector Analysis***
Yang Chen (Jiangsu University of Science and Technology); Yuting Wu (Shanghai Aerospace Electronic Technology Institute); Jiacheng Dai (Zhejiang University); Peiying Lin (Jiangsu University of Science and Technology)
- P03.57 ***Short Time Fourier Transform (STFT) of High-Resolution Range Profile (HRRP) in Study the Spectral Characteristics of Scattering Center***
Jinlin Miao (China Ship Research and Development Academy); Nan Wu (701 Research Institute); Liang Peng (Wuhan Second Ship Design and Research Institute)
- P03.58 ***Stochastic Contact Modeling of Dry Electrodes for Common-Mode Rejection in Brain-Machine Interfaces***
Sutanu Chatterjee (ITMO University & Harbin Engineering University); Xinrui Liu and Mingzhao Song (Harbin Engineering University)
- P03.59 ***Wide-Angle Scanning Dual-Circularly Polarized Phased Array Based on Metasurface for Ka-Band Satellite Communications***
Yuting Wu (Shanghai Aerospace Electronic Technology Institute); Peiying Lin (Jiangsu University of Science and Technology); Jiacheng Dai (Zhejiang University); Yuhuan Zhang (Shanghai Aerospace Electronic Technology Institute); Yudong Zhang (Shanghai Aerospace Electronic Technology Institute); Jiangtao Huangfu (Zhejiang University)
- P03.60 ***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)
- P03.61 ***Adaptive Localization Method for Distributed Radar Clusters Based on Localization Uncertainty Prediction***
Jiacheng Dai (Zhejiang University); Yuting Wu (Shanghai Aerospace Electronic Technology Institute); Peiying Lin (Jiangsu University of Science and Technology); Jun Tang and Jiangtao Huangfu (Zhejiang University)

Poster Session

P04 (Monday, August 24 10:20 - 12:20)

Poster & Exhibition Area

- P04.1 ***Transient Electromagnetic Interference Induces Unequal Length Microstrip Interline Crosstalk***
Qian Li, Tian Wang and Yunfei Kan (Shijiazhuang University)
- P04.2 ***Pump-Dependent Charge-Carrier Dynamics in Composite Films Based on Quasi-2D (BA)₂(MA)_n-1PbnBr3n+1 Perovskite***
Maria Sandzhieva (ITMO University)
- P04.3 ***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); Fang He (Zhejiang Zhaolong Interconnect Technology Co., Ltd.)
- P04.4 ***Modeling Electromagnetic Coupling Effects in Floating Crossing Cables***
Zongfei Zhou (Beijing University of Aeronautics and Astronautics); Yueyun Hu (Shanghai Aircraft Design & Research Institute); Jieyu Xing (Beihang University)
- P04.5 ***Highly Efficient Correction of Failure Elements in Two-Dimensional Phased Arrays***
Yun-Fei Qiang and Rui-Xin Wu (Nanjing University); Wei Wang (No. 38 Research Institute of CETC)
- P04.6 ***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)
- P04.7 ***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)
- P04.8 ***A Structure-Reusing Large Frequency-Ratio Antenna Based on SIW***
Zuo Yanan, Guorui Han and Xinwei Chen (Shanxi University)
- P04.9 ***Analysis on Pressure-Sensitive Properties of Cylindrical Resonant Cavity with Multiphysics Coupling Simulation***
Zhou Jianglong; Tao Jiang, Weida Bai, Feng Yan, Zili Jiang, Lu Pin and Gao Guodong (Northwest Institute of Nuclear Technology)
- P04.10 ***3-8.5GHz Ultra-Wideband Printed Log-Periodic Antenna Array Design***
Dezhao Zhang, Zhili He and Xu Tian (Chang'an University)
- P04.11 ***A Miniature Triple-Band Two-Element Implantable MIMO Antenna***
Li Hairong and Hua Li (University of Electronic Science and Technology of China)
- P04.12 ***Human Vital Signs Detection Based on Three-Dimensional Positioning***
Zhuang Zhao (Anhui University)
- P04.13 ***Dual-Band Metasurface for Dynamic Wireless Power Transfer and Beam Tracking***
Shuming Zhao (Xi'an Jiaotong-Liverpool University); Wenzhang Zhang (Xi'an Jiaotong-Liverpool University & University of Liverpool); Dijiang Huang, Zijun Wang and Zhanyuan Ning (Xi'an Jiaotong-Liverpool University)

- P04.14 ***Poisson Random Fusion Texture Filling for Irregular Regions***
Xunwang Dang (National Key Laboratory of Scattering and Radiation)
- P04.15 ***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); Hao Wang (Nanjing University of Science & Technology)
- P04.16 ***An Electromagnetic Sensitivity Threshold Prediction Framework Based on Dynamic Feature Graphs and Multi-Head Attention***
Haobo Geng, Yaoyao Li and Weiping Tong (Beihang University);
- P04.17 ***Time-Domain Signal Compensation Method for Electromagnetic Coupling Current Probes Using Deep Learning***
Rui Wang and Zi Yang Wang (Beihang University)
- P04.18 ***Design of Absorber Based on Hybrid Neural Network and Genetic Algorithm***
Jinghao Xiao, Zhu Min and Bo Lei (Jinling Institute of Technology); Yi Wang (Nanjing University of Aeronautics and Astronautics)
- P04.19 ***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)
- P04.20 ***Design of a Compact Ku-Band LTCC Bandpass Filter Using Vertically Distributed Resonators***
Zhanbo Wu, Bo Yuan and Gaofeng Wang (Hangzhou Dianzi University)
- P04.21 ***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)
- P04.22 ***Innovative Unit Cell Design for RIS: Enhancing 5G Communication***
Tayyab Hameed, Tao Su, Muneeb Ullah, Salman Alam and Bian Wu (Xidian University)
- P04.23 ***Terahertz-Enhanced Machine Learning Framework for Bioactivity Prediction of CDK4 Inhibitors***
Ze Wang, Ziqiang Xu, Chenzhi Tang, Yuxian Zhang, Kaijie Wu and Zhixiang Huang (Anhui University)
- P04.24 ***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)
- P04.25 ***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)
- P04.26 ***Study on Incremental Radar Track Classification Based on the TCN-TTT-Transformer Architecture***
Tingyu Zhou and Hao Wang (Nanjing University of Science and Technology);
- P04.27 ***An Enhanced Radar Target Detection Method Based on Low-Threshold CFAR and 2D-CNN***
Bingjun Zhou and Hao Wang (Nanjing University of Science and Technology)

- P04.28 ***Design of Low-Loss BCB-Based FOWLP Interconnections at W-Band for CPO Applications***
Li Mingxuan, Yin-Shan Huang and Liang Zhou (Shanghai Jiao Tong University); Ziqiang Li (the 13th Research Institute of China Electronics Technology Group); Liang Zhou (Shanghai Jiao Tong University);
- P04.29 ***A Compact High-Power Receiver for Wireless Power Transfer***
Yicen Li (Xidian University)
- P04.30 ***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)
- P04.31 ***Design of a Wideband Dual-Polarized Antenna for VHF/UHF Applications***
Yihang Chen (Xidian University)
- P04.32 ***A High-Power Tolerant All-Metal Transmitarray for Polarization Conversion***
Zepeng Cao, Hao Li and Gaosheng Li (Hunan University)
- P04.33 ***Mixed-Precision LU Factorization Acceleration for the Method of Moments***
Juncong Feng, Peng Hou, Junjie Wang, Xun-Wang Zhao and Zhongchao Lin (Xidian University)
- P04.34 ***A Neural Network Method for Rapid RCS Prediction and Compensatory Reconstruction of Slotted Targets***
Hao Junjie (Xi'an University of Electronic Science and Technology); Peng Hou, Xun-Wang Zhao and Zhongchao Lin (Xidian University)
- P04.35 ***Far-Field Radar Cross Section Determination Using Near-Field ISAR Imaging with Cyclic Convolution and Fast CLEAN***
Weiqun Wu, Yi-Xuan Zhang and Xiaokun Zhang (Xidian University)
- P04.36 ***Design of a Terahertz Staggered Double-Vane Slow-Wave Structure***
Hongjing Li (Aerospace Information Research Institute, Chinese Academy of Sciences & School of Electronic, Electrical and Communication Engineering, University of Chinese Academy of Sciences); Wenxin Liu, Zhihao Jin, Sihan Lu and Zhiqiang Zhang (Aerospace Information Research Institute, Chinese Academy of Sciences)
- P04.37 ***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)
- P04.38 ***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); Abdenasser Lamkaddem (Universidad Carlos III de Madrid (UC3M)); Danilo Brizi (University of Pisa); Dmitry Kholodnyak (Saint Petersburg Electrotechnical University LETI); Cancan Rong (China University of Mining and Technology)
- P04.39 ***Differentially-Fed Dual-Polarized Microstrip Antenna with Enhanced Bandwidth***
Liu Yongsheng, Wang Shuo and Zhiya Zhang (Xidian University)
- P04.40 ***A Sparse Linear Array Synthesis Method Based on Parallel Neural Networks***
Wang Shuo, Xie Wei and Zhiya Zhang (Xidian University)

- P04.41 ***Joint AoA and Frequency Estimation Based on Microwave Photonic Arrays***
Hailong Hou and Shuguo Xie (Beihang University); Yumo Tian (Hefei Innovation Research Institute of Beihang University); Tianheng Wang (Beihang University)
- P04.42 ***Multi-Label RF Signal Classification for Optical Undersampling down-Conversion Receiver Using EfficientNet-B0 with STFT and SpecAugment***
Guangliang Chen, Fanbo Meng, Shuguo Xie and Tianheng Wang (Beihang University); Yumo Tian (Hefei Innovation Research Institute of Beihang University)
- P04.43 ***Physics-Informed Multimodal 1D-CNN for State-Driven Extended ICEM Parameterization of Electro-Hydraulic Controllers***
Fanbo Meng, Guangliang Chen, Shiyang Wang and Shuguo Xie (Beihang University); Yumo Tian (Hefei Innovation Research Institute of Beihang University); Tianheng Wang (Beihang University)
- P04.44 ***Time-Frequency Fusion Network for Electromagnetic Interference Recognition in GNSS Receivers***
Meiyuan Zheng, Mengnan Zhang and Zhenzhen Peng (Beihang University)
- P04.45 ***Structural Design and Environmental Adaptability Analysis of GNSS Occultation Detector Antenna***
Rui Guo and Fei Xie (Xi'an Research Institute of Navigation Technology)
- P04.46 ***Metal Integrated Suspended Line Based 180° Filtering Couplers and 2×4 Filtering Butler Matrix with Separate Electric and Magnetic Coupling Paths***
Weiqi Liu, Yi WU and Kaixue Ma (Tianjin University)
- P04.47 ***Four-Point Bending Finite Element Analysis of SiC and Al₂O₃ Ceramic Substrates for IGBT Modules***
Ziyi Peng (Anhui University); Songlin Wei (Xiamen Ocean Vocational College); Na Bai and Naixing Feng (Anhui University)
- P04.48 ***TSH-NMPSO-Based Multi-Objective Optimization of an Omnidirectional Monopole Antenna***
Ming Chen, Jin-Peng He, Zi-Liang Lin and Peng-Fei Qin (Foshan University); Jia-Jun Liang (Yulin Normal University); Guan-Long Huang (Foshan University)
- P04.49 ***Dual-Band Frequency-Fixed Beam-Scanning Leaky-Wave Antenna for Full-Space Coverage***
Tongxu Liu and Jun Hong Wang (Beijing Jiaotong University)
- P04.50 ***A Polarization-Reconfigurable Patch Antenna Based on a Compact Y-Shaped Feeding Network***
ZhenHua Wu and Jian-Ping Guo (South China Normal University); Wen Ding and Jingtao Zeng (Guangdong Shenglu Telecommunication Technology Co., Ltd.);
- P04.51 ***A Compact Ultra-Wideband Vivaldi Antenna for Underwater GPR***
Yue Zhang, Fuchun Li, Haiqin Lin and Jisheng Tong (GuangXi University)
- P04.52 ***A Millimeter-Wave Low-Sidelobe Slot Antenna Based on Rectangular Waveguide***
Wentao Zhuang, Wanyi Cui and Zhiya Zhang (Xidian University)
- P04.53 ***Shared-Aperture MIMO Antenna Covering Sub-6 GHz and Millimeter-Wave for 5G Mobile Handsets***
Wenkang Tang (Anhui University)

- P04.54 ***A Low-Profile Dual-Polarized Millimeter-Wave Microstrip Patch Array with Wide-Angle Scanning***
Maolin Yao (Anhui University)
- P04.55 ***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)
- P04.56 ***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); Jia-Jun Liang (Yulin Normal University); Jingtao Zeng (Guangdong Shenglu Telecommunication Technology Company)
- P04.57 ***An Interface-Level Measurement Descriptor for Load-Aware Near-Field Magnetic WPT Using Metasurface Resonator Apertures***
Junying Ye and Mingzhao Song (Harbin Engineering University)
- P04.58 ***Polarization-Insensitive Reflective Metasurface for Near-Field Beam Focusing***
Yuanyuan Wang, Guisheng Liao, Zihui Liu, Yinsheng Wang and Jingwei Xu (Xidian University); Ying Li (Zhejiang University); Yufeng Chen and Rui Xi (Xidian University)
- P04.59 ***Parametric Scattering Center Model for Multilayered Thin-Coated Targets Based on Physical Scattering Mechanisms***
Yanan Lu, Yu Mao Wu (Fudan University, China)

Poster Session

P05 (Monday, August 24 13:30 - 15:30)

Poster & Exhibition Area

- P05.1 ***Group Theory in Singular Optics***
Jie Yang (Air Force Engineering University); Xuezhi Zheng (Nanjing University of Aeronautics and Astronautics); Jiafu Wang (Air Force Engineering University)
- P05.2 ***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)
- P05.3 ***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)
- P05.4 ***Electrical and Thermal Design of Millimeter-Wave MIMO Heatsink Antenna Arrays***
Bowen Xiao, Qian Chen, Jizhi Feng and Zhixiang Huang (Anhui University); Yang Lixia (Jiangsu University); Yingsong Li (Anhui University)
- P05.5 ***Parametric Scattering Model for Coupled Chaff Clouds***
Lu Xu, Guo Kun-yi and Xin-Qing Sheng (Beijing Institute of Technology)
- P05.6 ***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); Yang Lixia (Jiangsu University); Yingsong Li (Anhui University)
- P05.7 ***A Fast Finite Element Mesh Generation Method for 2.5D Stacked Structures***
Hantao Zhou, Wu Haoxiang, Chang Jihai, Zhongchao Lin and Xun-Wang Zhao (Xidian University)
- P05.8 ***5G Metal-Frame Smartphone MIMO Antenna with Ultra-Wide Band Performance***
Wu Chao (Anhui University)
- P05.9 ***Analysis of Cable Coupling Characteristics Inside Ammunition Depots Under Strong Electromagnetic Pulses***
Jiayu Liu, Xinbo He and Bing Wei (Xidian University)
- P05.10 ***A Dual-Polarized Metasurface Antenna Fed by Integrated Substrate Gap Waveguide***
Chengyu Deng, Hong Yuan, Chuanzhen Wang and Wuzhou Xiao (Yunnan University)
- P05.11 ***Multi-Band Harmonically Enhanced Electromagnetically Induced Transparency-like on Metamaterials***
Yin Fengzhi, Meichen Liu, Yueyue Fan and Renxia Ning (Huangshan University)
- P05.12 ***Wideband Circularly Polarized Folded Transmitarray Antenna***
Mengru Jia and Jun Hong Wang (Beijing Jiaotong University)
- P05.13 ***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)

- P05.14 ***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)
- P05.15 ***High-Efficiency Multi-Functional Leaky-Wave Antenna Based on Multi-Modulation of Quasi-One-Dimensional Structure***
Chunfeng Fan and Ke Gong (Xinyang Normal University)
- P05.16 ***GCF-Net: A Dual-Branch Gated Collaborative Fusion Network for Electromagnetic Inverse Scattering***
Li Zeji, Peng Han and Jianying Wang (South China Normal University)
- P05.17 ***CUDA-Based Parallel PO-EEC for Efficient Electromagnetic Scattering Analysis***
Cai Haizhen, Jiuxiang Liu, Guo Kun-yi and Xin-Qing Sheng (Beijing Institute of Technology)
- P05.18 ***Modeling and Sensitivity Analysis of Semiconductor Light Source Effects on Fiber Optic Current Transformers***
Yinting Jin (University of Hong Kong)
- P05.19 ***Deep Optimization of GPU Accelerated Parallel MLFMA for Electromagnetic Scattering by Complex Objects***
Han Liu, Wei-Jia He and MingLin Yang and Xin-Qing Sheng (Beijing Institute of Technology)
- P05.20 ***Recent Developments of Narrow-Clearance Mobile Terminal Antennas: A Review***
Tian-hao Chong, Jia-Qi Zhu, Jian Li and Ying Liu (Xidian University)
- P05.21 ***Compact Center-Fed Substrate-Integrated Cavity Array Antenna Using High-Order Resonating Modes***
Jingqi Yin, Yinbo Zhao and Zengdi Bao (Beijing Institute of Technology)
- P05.22 ***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)
- P05.23 ***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); Zhenyu Zhao (National University of Singapore); Montie Vitorino (Federal University of Campina Grande); Polina Kapitanova (ITMO University); Cancan Rong (China University of Mining and Technology)
- P05.24 ***TDR Reconstruction Method for High-Loss Transmission Channels***
Jiefeng Zhou and Si-Ping Gao (Nanjing University of Aeronautics and Astronautics)
- P05.25 ***Correction Method for Corner and Edge Singularities of Planar Metallic Structures in Non-Uniform FDTD Meshes***
Jian Han, Wang Kunyi, Xun-Wang Zhao and Zhongchao Lin (Xidian University)
- P05.26 ***An Electromagnetic-Transient Thermal-Displacement Coupled Simulation Method for FSS Structures***
Zelong Tan, Jian Wang and Zhaoyang Liu (Ningbo University)
- P05.27 ***An Active Metasurface Antenna for Independent Control of Radiation and Scattering***
Lin Zhu, Xueyun Han and Wei Li (Henan Normal University)

- P05.28 ***Research on Electromagnetic Scattering Suppression Based on Optical Transparent Microwave Absorbers***
Xin Gao, Qingdong Zhang, Meng Liu and Pengfei Jia (The Research Institute for Special Structures of Aeronautical Composite AVIC); Peng Li (Shanghai Rongke Special Equipment Co., Ltd.)
- P05.29 ***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); Ge Meng, Zhikun Guo and Jinjun Mo (Guilin University of Electronic Technology)
- P05.30 ***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)
- P05.31 ***Finite-Band Coherent Imaging of Two Point Scatterers: Amplitude Interaction and Resolution***
Ke Chen (Beihang University); Nan Wu (701 Research Institute); Jinzu Ji (Beihang University)
- P05.32 ***Time-Frequency Electromagnetic Response Fusion Network for Fault Diagnosis of Waterjet Propulsion Device Control Systems***
Tianyu Gao and Cheng Zhang (Harbin Institute of Technology); Zhengmao Qiu (Shanghai Marine Equipment Research Institute)
- P05.33 ***Application of FCC-FDTD to Field-to-Wire Coupling Analysis of Parallel Cables Above a Ground Plane***
Yiwen Zhang, Zongfei Zhou, Guangzhi Chen, Boyan Cui and Yaru Zhang (Beihang University)
- P05.34 ***Efficient Parametric Modeling and Analysis of Sea- Surface Electromagnetic Scattering Based on Three- Parameter BRDF Model***
Shuxia Jiang, Qingmeng Yang, Yuan Mou and Xin-Qing Sheng (Beijing Institute of Technology)
- P05.35 ***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); Zhenyu Zhao (National University of Singapore)
- P05.36 ***A System Design Method for RF-Field-Strength-Aware Navigation of Autonomous Mobile Robots***
Ziyi Chen, Guangzhi Chen and Youlong Weng (Beihang University)
- P05.37 ***Impact of Mesh Generation Strategies on High-Frequency RCS Simulations for Complex Targets***
Yue Hu (Beihang University); Nan Wu (701 Research Institute); Jinzu Ji (Beihang University)

- P05.38 ***XGBoost-Enhanced Electromagnetic-Ultrasonic Coupling for Implantable Battery State-of-Charge Assessment***
 Xuancheng Ren and Zhenyu Zhao (National University of Singapore)
- P05.39 ***Design of an X-Band FMCW Sea Surface Altimetry Radar Based on the CZT Algorithm***
 Shuming Jiang (Ningbo University); Jianjian Huo (University of Electronic Science and Technology of China); Yixin Wang and Jian Wang (Ningbo University)
- P05.40 ***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)
- P05.41 ***MPI-Based Parallel Acceleration of the Physical Optics Method***
 Gaogui Xu and Chunzhu Dong; Hongcheng Yin (Science and Technology on Electromagnetic Scattering Laboratory)
- P05.42 ***Design of a DC-8GHz Low Phase-Shift 6-Bit Digital Attenuator***
 Yan Jiang and Hua Jinhao (Nanjing University of Posts and Telecommunications); Chen Hui and Yongrong Shi (Nanjing University of Aeronautics and Astronautics); Hualong Ji (Nanjing University of Posts and Telecommunications); Linping Feng (Shenzhen Technology University)
- P05.43 ***Electromagnetic Scattering Testing and Stealth Performance Analysis of a Stealth Aircraft Model***
 Ziqi Huang (Beihang University); Liang Peng (Wuhan Second Ship Design and Research Institute); Yunpeng Ma (Beihang University)
- P05.44 ***Extracting Scattering Centers Based on CFAR Method for SAR Image of Sea Surface Target***
 Jinlin Miao (China Ship Research and Development Academy); Liang Peng (Wuhan Second Ship Design and Research Institute); Jinzu Ji (Beihang University)
- P05.45 ***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); Chen Hui (Nanjing University of Aeronautics and Astronautics); Zhou Wenwei (Nanjing University of Posts and Telecommunications); Linping Feng (Shenzhen Technology University)
- P05.46 ***Physics-Guided Radar Cross Section Anomaly Detection and Data-Driven Analysis of Low-Observable Aircraft***
 Yixin Ren (Beihang University); Liang Peng (Wuhan Second Ship Design and Research Institute Wuhan); Jinzu Ji (Beihang University)
- P05.47 ***A Dual-Polarized Antenna Based on SIGW Feeding***
 Jiangzhi Pan (Xi'an University of Electronic Science and Technology); Liu Yongsheng and Zhiya Zhang (Xidian University)
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 Jiahao Liu and Peilin Huang (Beihang University); Nan Wu (701 Research Institute)

- P05.49 ***Hard-Constrains Physics-Informed Neural Networks for Electromagnetic Inverse Scattering***
Yanming Zhang (Southeast University)
- P05.50 ***A Ray-Tracing-Anchored Real-Map Method for Low-Altitude UAV Air-to-Ground Blind-Zone Analysis***
ChangNing Zhou and ZhongXin Deng (XiangTan University); Fei Ye (Hunan Institute of Surveying and Mapping Science and Technology)
- P05.51 ***Design of a Broadband Shielded Second-Order Wilkinson Power Divider with Metallic Post Resonance Suppression***
Zhenhua Ye, Fantong Kong and Zhiya Zhang (Xidian University)
- P05.52 ***A Dual-Band 2-Bit Reflective Coding Metasurface for Beam Deflection***
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- P05.53 ***Design of Spectrum-Tunable Metamaterial Based on Hybrid Resonance***
Shihao Li, Junfeng Chen and Longying Guo (China Ship Development and Design Center)
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Hu Kongyi, Tinghui Zhang and Wangsheng Pang (Xihua University)
- P05.55 ***Target-Direction-Conditioned Interface Topology Design for Patch Antennas***
Junwei Cui and Xue-Song Yang (University of Electronic Science and Technology of China)
- P05.56 ***Permittivity-Gradient-Enhanced U-Net for Electromagnetic Forward Modeling***
Yuting Zhang, Kai Chen, Qing He and Yunyun Hu (Tongji University)
- P05.57 ***FDTD Framework Based on MPI for Large-Scale Electromagnetic Problems***
Hongyu Zhu (Dongshen Electromagnetic Technology (Chengdu) Co., Ltd.); Zixuan Liu (COMAC Shanghai Aircraft Design & Research Institute); Pengfei Xie and Shasha Zhang (Dongshen Electromagnetic Technology (Chengdu) Co., Ltd.)
- P05.58 ***FDTD Simulation Method for Electromagnetic Scattering of Coupled Heterogeneous Strata and Dynamic Leakage in Buried Oil Pipelines***
Haocheng Lu (China University of Petroleum)
- P05.59 ***A Transformer-Based Performance Prediction Model for MMIC Design***
Jingyuan Zhang (Nanjing University of Aeronautics and Astronautics); Kunpeng Qiu (National University of Singapore); Xu Yan (Harbin Institute of Technology (Shenzhen)); Renlong Han and Si-Ping Gao (Nanjing University of Aeronautics and Astronautics)
- P05.60 ***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)
- P05.61 ***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)
- P05.62 ***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)

2026年星月港论坛

(2026 Sino-Singapore Scientific Forum)

海洋信息与可持续发展论坛

主办单位:新加坡-中国科学技术交流促进协会

协办单位:香港城市大学青岛研究院

活动时间:2026年8月22日 15:40-18:00

活动地点:青岛西海岸新区威斯汀酒店

15:20-15:40	签到注册
15:40-16:00	领导致辞
	蓝伟光教授, 新加坡-中国科学技术交流促进协会会长, 英国皇家化学会会士, 三达国际集团创始人
	陆贵文院士, 英国皇家工程院院士, 香港工程院高级副院长, 香港城市大学讲席教授
	李尔平院士, 中国工程院外籍院士, 新加坡工程院院士, 浙江大学讲席教授
	杨子健博士, 新中科促会智能经济顾问, 中国城镇化促进会副理事长、研究员
	郭永新院士, 新加坡工程院院士, 香港城市大学讲席教授, 香港城市大学青岛研究院院长
16:00-16:20	(主旨演讲) 潘克厚研究员, 崂山国家实验室主任助理、卓越科学家, 二级研究员
16:20-16:40	(主旨演讲) 薛晨阳研究员, 国家杰青、教育部“长江学者”特聘教授、“万人计划”科技创新领军人才, 崂山国家实验室观测与探测研究部副部长
16:40-17:00	(主旨演讲) 殷晓斌教授, 国家级领军人才, 中国海洋大学信息科学与工程学部教授
17:00-17:20	(主旨演讲) 汪嘉宁研究员, 国家杰青, 中国科学院海洋研究所研究员
17:20-17:40	(主旨演讲) 董军宇教授, 国家级领军人才, 中国海洋大学信息科学与工程学部部长、教授
17:40-18:00	(主旨演讲) 杨阳教授, 国家优青, 哈尔滨工业大学(深圳)教授, 原中科院深海所研究员
18:00	活动结束

Sharing Your Experience in Electromagnetic Education

The electromagnetics education special session is supported by the ACES-China committee, which aims at providing opportunities for collaborative teaching, exchanging experience and sharing new ideas in electromagnetics education, in order to support and educate both undergraduate and postgraduate students and young professionals throughout their careers.

Following the successful special sessions held over the past four years, this year's session will continue to bring together experienced educators in electromagnetics to share their teaching practices and perspectives. The session will highlight emerging topics including AI-assisted education, integration of science and education, quantum electromagnetics, and simulation-based teaching, while providing an open forum for discussion on the future of electromagnetics education.

Schedule (August 23, 2026, Session: T02, Room B)

Opening address	10:20-10:25	Prof. Shengjun Zhang
Theme reports	10:25-10:40	Prof. Zi He Exploration of Electromagnetic Fields and Waves Course Development from the Perspective of Integrating Science and Education
	10:40-10:55	Prof. Qun Ren Quantum Electromagnetics Education: Bridging Quantum Theory and Electromagnetic Engineering
	10:55-11:10	Mr. Jiahui Li An AI-Empowered Intelligent Tutoring System for Electromagnetics Education Aided by Virtual Reality
	11:10-11:25	Prof. Junbing Duan AI-Assisted Teaching of Antenna Polarization from Visualizations to HFSS Simulations
Coffee Break	11:25-11:35	
Panel Discussion	11:35-12:20	Panel Discussion & Q&A Electromagnetics Education in the AI Era: What Should We Teach and How Should We Teach It? Moderator: Prof. Jin Pan

Session Chairs:

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

Speakers:

Zi He, Nanjing University of Science and Technology
Qun Ren, Tianjin University
Jiahui Li, Zhejiang University
Junbing Duan, Southwest Jiaotong University

Panelists:

Jin Pan, University of Electronic Science and Technology of China
Shengjun Zhang, National Key Laboratory of Science and Technology on Test Physics & Numerical Mathematics

List of Exhibitors (ACES-China 2026)

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