2024 IEEE 7th International Conference on Electronic Information and Communication Technology

2024 ICEICT

Conference Program

Organizers:

西北工業大學
NORTHWESTERN POLYTECHNICAL UNIVERSITY

IEEE

Co-organizers:

XIDIAN UNIVERSITY

XI'AN JIAOTONG UNIVERSITY

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BEIJING JIAOTONG UNIVERSITY

UESTC

SIC 陕西省通信学会 SHAANXI INSTITUTE OF COMMUNICATIONS

SOUTH CHINA UNIVERSITY OF TECHNOLOGY

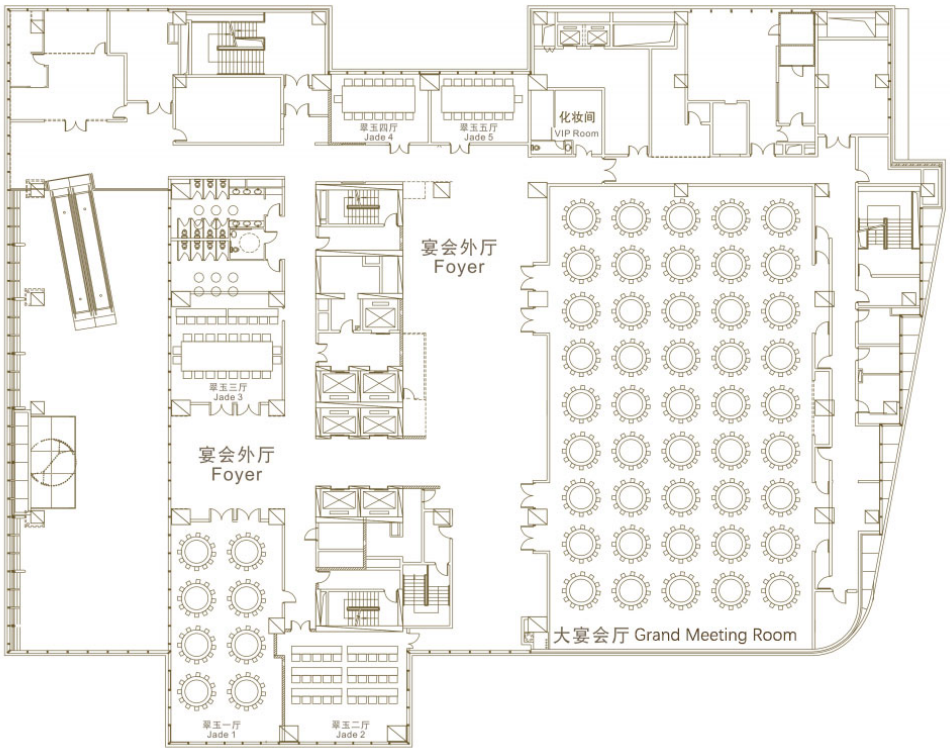
Contents

Venue

Conference Venue and Hotel: Holiday Inn

西安绿地假日酒店 (Holiday Inn Xi'an Greenland Century City)

Address: No.5 Jinye Road, High-Tech Industries Development Zone Xi'an



2nd floor plan of the venue

Program at a Glance

Timeframe	Tuesday, July 30, 2024	
09:00-19:00	Registration	Hall of Holiday Inn 西安绿地假日酒店 1 楼大厅

Please scan below QR code to view photos of the event

2024 IEEE 7th International Conference on Electronic Information and Communication Technology

July 30-August 2, 2024

Xi'an, China

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THE PHOTOS OF THE EVENT

Timeframe	Wednesday, July 31, 2024		
09:00-09:15	Opening Ceremony		2F Grand Meeting Room
09:15-09:30	Group Photo		
09:30-10:10	Plenary Speech I	Hosted by: He-Xiu Xu	2F Grand Meeting Room 2 楼大宴会厅
10:10-10:50	Plenary Speech II		
10:50-11:10	Coffee Break		
11:10-11:50	Plenary Speech III	Hosted by: Xiaoming Chen	
11:50-12:30	Plenary Speech IV	Hosted by: Kuang Zhang	
12:30-13:30	Lunch		1F OASIS CAFÉ 1 楼欧意咖啡厅
13:30-14:45	Special Session 1 & Topic 5		Jade 1 Meeting Room
13:30-15:30	Special Session 2 & Topic 1		Jade 2 Meeting Room
13:30-15:25	Special Session 3		Jade 3 Meeting Room
13:30-15:20	Topic 7& Topic 4		Jade 4 Meeting Room
13:30-15:30	Special Session 4 & Topic 8 & Topic 2		Jade 5 Meeting Room
13:30-15:30	Poster Session I		2F Hall
15:30-15:50	Coffee Break		
15:50-17:25	Special Session 6 & Topic 2		Jade 1 Meeting Room
15:50-17:50	Special Session 7 & Topic 2		Jade 2 Meeting Room
15:50-17:45	Special Session 8 & Topic 3		Jade 3 Meeting Room
15:50-17:50	Special Session 9		Jade 4 Meeting Room
15:50-17:40	Special Session 10 & Topic 3		Jade 5 Meeting Room
15:50-17:50	Poster Session II		2F Hall
18:00-20:00	Dinner		1F OASIS CAFÉ 1 楼欧意咖啡厅

Timeframe	Thursday, August 1, 2024		
09:00-09:40	Plenary Speech V	Hosted by: Yingsong Li	2F Grand Meeting Room 2 楼大宴会厅
09:40-10:20	Plenary Speech VI		
10:20-10:40	Coffee Break		
10:40-11:20	Plenary Speech VII	Hosted by: Shigang Zhou	
11:30-13:30	Lunch		1F OASIS CAFÉ 1 楼欧意咖啡厅
13:30-15:20	Special Session 12 & Special Session 26		Jade 1 Meeting Room
13:30-15:30	Special Session 13		Jade 2 Meeting Room
13:30-15:35	Special Session 14 & Topic 3		Jade 3 Meeting Room
13:30-15:30	Special Session 15		Jade 4 Meeting Room
13:30-15:25	Special Session 16 & Special Session 13		Jade 5 Meeting Room
13:30-15:30	Poster Session III		2F Hall
15:30-15:50	Coffee Break		
15:50-17:35	Special Session 17		Jade 1 Meeting Room
15:50-17:50	Special Session 18 & Special Session 20		Jade 2 Meeting Room
15:50-17:45	Special Session 19 & Special Session 21		Jade 3 Meeting Room
	Special Session 22		Jade 4 Meeting Room
15:50-17:40	Special Session 24 & Special Session 22		Jade 5 Meeting Room
15:50-17:50	Poster Session IV		2F Hall
18:00-20:00	Dinner		2F Grand Meeting Room 2 楼大宴会厅

Timeframe	Friday, August 2, 2024	
08:30-10:10	Special Session 23	Jade 1 meeting room
08:30-10:10	Special Session 25	Jade 2 meeting room
08:30-10:10	Special Session 27 & Special Session 33	Jade 3 meeting room
08:30-10:05	Special Session 28 & Special Session 25	Jade 4 meeting room
08:30-10:10	Special Session 31 & Special Session 34	Jade 5 meeting room
08:30-10:10	Poster Session V	2F Hall
10:10-10:25	Coffee Break	
10:25-11:55	Special Session 23	Jade 1 meeting room
10:25-12:00	Special Session 30 & Special Session 23	Jade 2 meeting room
10:25-12:00	Special Session 32 & Special Session 23	Jade 3 meeting room
10:25-11:55	Special Session 29	Jade 4 meeting room
10:25-12:20	Special Session 35 & Special Session 34	Jade 5 meeting room
10:25-12:00	Poster Session VI	2F Hall
12:00-14:00	Lunch	1F OASIS CAFÉ 1 楼欧意咖啡厅

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Special session 3: Antennas and antenna arrays for MMW and THz applications	
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Special session 4: 5G/6G LEO Satellite Mobile Communication	
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Special session 5: Electromagnetic Information Theory	
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Special session 6: Radio Fuze Detection Technology	

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Special session 7: Miniatured Wideband Antenna	
Wang Xiao Fei	Beijing Institute of Space Long March Vehicle
Special session 8: microwave nonlinearity and microwave sensing	
Ming Ye	Xi'an University of Architecture and Technology
Xiaolong Zhao	Xi'an Jiaotong University
Special session 9: Design and Evaluation of Antenna Arrays for Next Generation Communications	
Xiaoming Chen	Xi'an Jiaotong University
Luyu Zhao	Anhui University
Special session 10: Advanced multifunctional metasurfaces: physics and applications	
Hongyu Shi,	Xi'an Jiaotong University
Jiafu Wang	Airforce Engineering University
Special session 11: RIS-aided Communication Technology	
Yongjun Xu	Chongqing University of Posts and Telecommunications
Chongwen Huang	Zhejiang University
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Special session 12: AI-based radar target detection, imaging, and recognition	
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Weike Feng	Air Force Engineering University
Xiaowei Hu	Air Force Engineering University
Special session 13: Recent Progress of Artificial Intelligence in Cyberspace Security, Information and Communications Technology	

Zhipan Wu	Huizhou University
Xiaoye Wang	Huizhou University
Special session 14: Emerging Sensing and Precision Measurement Technology	
Yongjun Huang	University of Electronic Science and Technology of China
Kai Chen	University of Electronic Science and Technology of China
Guangwei Deng	University of Electronic Science and Technology of China
Special session 15: Advanced Filtering Components	
Xiaolong Wang	Jilin University
Baoping Ren	East China Jiaotong University
Special session 16: Key Enablers for Smart Wireless Environments in the Era of 5G and Beyond	
Ke Guan	Beijing Jiaotong University
Wei Wang	Chang'an University
Pan Tang	Beijing University of Posts and Telecommunications
Special session 17: 6G multi-beam reconfigurable/scanning antenna and city development	
Botao Feng	Shenzhen University
Wenzhe Gu	Huizhou University
Special session 18: Efficient transmission and networking technology of satellite Internet for unmanned systems	
Xin Yang	Northwestern Polytechnical University
Dawei Wang	Northwestern Polytechnical University
Special session 19: Spotlight on Metasurfaces Technology: Recent Advances and Applications	
Weiren zhu	Shanghai Jiao Tong University

Zhenfei Li	Northwestern Polytechnical University
Special session 20: Optimal design of Intelligent metasurface-assisted systems	
Li Deng	Beijing University of Posts and Telecommunications
Sixing Yin	Beijing University of Posts and Telecommunications
Special session 21: Optimal design of Intelligent metasurface-assisted systems	
Fan Zhang	Xi'an Jiaotong University
Xue Li	Shaanxi Normal University
Chen Wu	Xi'an University of Finance and Economics
Special session 22: Optimal design of Intelligent metasurface-assisted systems	
Sijia Li	Air Force Engineering University
Zhangjie Luo	Southeast University
Yongtao Jia	Xidian University
Special session 23: Optimal design of Intelligent metasurface-assisted systems	
Zhixiang Huang	Anhui University
Naixing Feng	Anhui University
Yuxian Zhang	Anhui University
Special session 24: Optimal design of Intelligent metasurface-assisted systems	
Ke Chen	Nanjing University
Yongtao Jia	Xidian University
Session 25: Microwave-induced Plasma and its Application	
Yang Yang	Sichuan University

Zhu Huacheng	Sichuan University
Session 26: Green Communication for 6G	
Li Xingwang	Henan Polytechnic University
Hao Wanming	Zhengzhou University
Yue Xinwei	Beijing Information Science and Technology University
Session 27: Planar compact antenna and high-density array	
Mei Li	Chongqing University
Neng-Wu Liu	Xidian University
Jianxing Li	Xi'an Jiaotong University
Session 28: Microwave and Terahertz Metasurface-based devices: Recent Advances and Applications	
Yongzhi Cheng	Wuhan University of Science and Technology
Song Wu	Hubei University of Technology
Session 29: Multiphysics Simulation Method and Its Applications	
Guangshang Cheng	Anhui University
Huanhuan Zhang	Xidian University
Session 30: Emerging radiation and scattering manipulation technologies for antennas and arrays	
Ting Shi	Southwest Jiaotong University
Junbing Duan	Southwest Jiaotong University
Zhong-Xun Liu	Xidian University
Session 31: Frontiers in the areas of 6G and next-generation communication technology	
Haiyang Ding	National University of Defense Technology

Haipeng Li	National University of Defense Technology
Session 32: Spatiotemporal modulated Electromagnetic devices and applications	
Xiaoyi Wang	Tongji University
XuDong Bai	Northwestern Polytechnical University
Jingfeng Chen	Shanghai Jiaotong University
Special Session 33: Recent Advancements in Artistic Antennas and Metasurface-Based Antennas	
Hailiang Zhu	Northwest Polytechnical University
Jianxun Su	Communication University of China
Kwok L. Chung	Huizhou University
Special Session 34: RF and microwave metamaterials for wireless communications	
Xiaojun Huang	Xi'an University of Science and Technology
Wang Yao	Xi'an University of Science and Technology
PHelin Yang	Central China Normal University
Special Session 35: Advances in mmWave Lens Antennas, Conformal Array for Modern Wirless Communications	
Min Wang	Chongqing University of Posts and Telecommunications
Huanhuan Yang	Air Force Engineering University
Wei Luo	Chongqing University of Posts and Telecommunications

General Chair's Welcome

Good morning, ladies and gentleman. This is the IEEE 7th International Conference on Electronic Information and Communication Technology (ICEICT 2024). I'm He-Xiu Xu from Air Force Engineering University. On behalf of the Organizing Committee, it is my great honor and pleasure to welcome you to this conference, to be held in Xi'an, China on July 31-August 2, 2024.

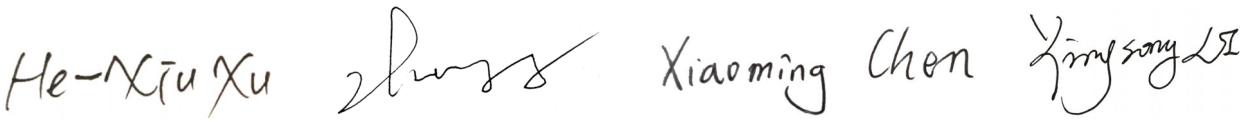
The technologies in Electronics Information, and Communications have been playing important roles in our modern civilization and expected to stay as main characters in the future. The ICEICT 2024 intends to provide a platform for bringing together researchers, engineers, academicians as well as industrial professionals from all over the world to discuss ideas, challenges and potential solutions on established or emerging topics, present their research results and development activities related to theory and applications in communications, computer science, signal processing, EMC, antennas, propagation and microwave systems. The conference welcomes contributions that could enhance the collision of excellent ideas and generate sparkle of wisdom between researchers all over the world.

ICEICT 2024 is sponsored by Northwestern Polytechnical University and IEEE Harbin Section, IEEE Harbin AP/MTT/EMC Joint Chapter, Xidian University, Xi'an Jiaotong University, Anhui University, Beijing Jiaotong University, University of Electronic Science and Technology of China and South China University of Technology. Moreover, it is also sponsored by famous journals like Research, Chinese Journal of Electronics and Journal of Electronics & Information Technology.

Xi'an's long history can still be traced from its historical landmarks and archaeological sites. It is also a prestigious cultural centre and a city brimming with creativity and imagination. Thanks to its long history and cultural diversity, it has now become a rising star in the cultural industry, and thus a City of Cultural capital.

This conference has received enthusiastic responses, with approximately 480 submitted papers from 10 countries and nearly 140 university. The Technical Program Committee consists of over 120 international specialists in the paper review and selection process. Based on careful peer review, approximately 437 papers were accepted. The conference also invited 7 plenary speeches from famous researchers all over the world.

At last, I wish the conference a great success, and wish you all pleasant stay in Xi'an. We believe that your presentation and recognized stature can help strengthen the world-wide impact of conference and attract a broader participation from around the world.



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Northwestern Polytechnical University

Xi'an Jiaotong University

Anhui University

General Chairs, ICEICT 2024

TPC Chair's Welcome

On behalf of the ICEICT2024 Technical Program Committee (TPC), we have the pleasure to introduce the technical program. A total of 480 full-paper submissions from 10 countries were received, including China Mainland，China Taiwan，China Hong Kong，United States，Sri Lanka，Japan，Italy, Canada，Brune. Twenty-five percent of submissions were from countries outside China. All papers were subject to a review process where each paper received at least two independent reviews. A total of 83 reviewers, most of whom were from outside China, participated in the submission review. After selection, 394 papers were accepted for presentation in either oral (204) or poster (190) sessions. This equates to a reject rate of 20 percent.

In those acceptance papers, 153 papers related to microwave and millimeter components, 103 antenna theory and design, 82 to wireless communications, 23 to remote sensing and 21 papers to electromagnetic wave propagation.

There will be two plenary sessions, the first one will be held at 9:30 am on Wednesday 31 July 2024, together with the opening ceremony and the keynote addresses, and the second one will be held at 9:00 am on Thursday 1 August 2024. The regular conference sessions will commence from afternoon 13:30 pm on Wednesday 31 July to Friday 2 August, 2024. There are 30 oral sessions arranged in 6 parallel sessions, and six poster sessions. In addition to the regular papers, 38 papers selected as invited papers will be presented in the sessions.

On behalf of the Technical Program Committee, we would like to express our deepest gratitude to the reviewers for their enthusiasm and dedication to develop a technical program of the highest standard and level.

We wish all of you will have an enjoyable and fruitful time at ICEICT2024 @ Xi’an.

Prof. Kuang ZHANG

Prof. Sijia LI

Prof. Jiangang Liang

Prof. Naixing Feng

TPC Chairs for ICEICT2024 TPC

Plenary Speech

Plenary Speaker I: Quan Xue

Quan XUE
School of Electronic and Engineering Information & School of Microelectronics
South China University of Technology
eeqxue@scut.edu.cn

Speaker's Biography:
Professor Xue began his professional career in the University of Electronic Science and Technology of China (UESTC) in 1993 as a Lecturer, immidately after he obtained his Ph.D. In 1997, he became a Professor in UESTC then moved to Chinese University of Hong Kong to work as a Research Associate and then a Research Fellow. In 1999, he joined the City University of Hong Kong as Senior Scientific Officer, and then promoted as Assciate Professor, Professor, and Chair Professor of Microwave Engineering. He also served the University as the Associate Vice President, the Director of Information and Communication Technology Center, and the Deputy Director of the State Key Lab of Millimeter Waves (Hong Kong). In 2017, he joined South China University of Technology. Now he is a Professor and serves as the Dean of the School of Electronics and Information Engineering, the Dean of the School of Microelectronics, and the Director of the Guangdong Key Laboratory of Terahertz and Millimeter Waves. He also served as the Chief Scientist of Antenna in the 2012 Labs of Huawei Technologies (2020-2023). His is a member of Chinese National 6G Technology General Expert Group. He has published over 600 internationally refereed journal papers and over 300 international conference papers. In addition, he has held more than 100 Chinese patents and more than 30 granted US patents. Prof. XUE's research interests include microwave/millimeter-wave/THz passive components, active components, antenna, microwave monolithic integrated circuits, etc.

Speech title: Millimeter-wave Transceiver Chips with Antenna in Package

Abstract:
The increasing requirements of wireless communications and sensors are making research and commercialization of millimeter-wave integrated circuits and antennas experience tremendous growth. The advancement of modern CMOS technology facilitates it to become a prevailing technology to achieve low-cost and compact millimeter-wave integrated circuits. Meanwhile, the compound semiconductor is still a must for low noise and high power millimeter-wave system. As the operating frequency enters the millimeter-wave regime, the circuit component's size becomes comparable to the electromagnetic wave wavelength. Therefore, a mixed design methodology using both the lumped and distributed elements in the millimeter-wave integrated circuit design is of great interest, not only compound semiconductor but also CMOS integrated circuits. On one hand, to achieve high-integration and high-pwerformance, the heterogeneous packaging architecture combined the merits of both CMOS and compound semiconductor millimeter-wave integrated circits is becoming an attractive technology. On the other hand, considering the efficiency, cost, and integration of advanced wireless systems, discrete antenna is no longer suitable for millimeter-wave wireless systems. Therefore, antenna-in-package (AiP) has become the mainstream for millimeter-wave system, which implements an antenna or antennas on (or in) package of chips leading to a high efficiency and highly-integrated radio. In this talk, innovative on millimeter-wave integrated circuits，subsystems and corresponding antenna-in-package will be introduced.

Plenary Speaker II: Cheng-Wei Qiu

Cheng-Wei Qiu
National University of Singapore
chengwei.qiu@nus.edu.sg

Speaker's Biography:
Cheng-Wei Qiu is Fellow of APS, Optica, SPIE and The Electromagnetics Academy, US. He is the recipient of President's Science Award 2023, the highest science distinction in Singapore. He was elected Fellow of ASEAN Academy of Engineering and Technology. He is well known for his research in structured light and interfaces. He has published over 580 peer-reviewed journal papers. He was the recipient of URSI Young Scientist Award in 2008, NUS Young Investigator Award in 2011, MIT TR35@Singapore Award in 2012, Young Scientist Award by Singapore National Academy of Science in 2013, Faculty Young Research Award in NUS 2013, SPIE Rising Researcher Award 2018, Young Engineering Research Award 2018, and Engineering Researcher Award 2021 in NUS, and World Scientific Medal 2021 by Institute of Physics, Singapore, Achievement in Asia Award (Robert T. Poe Prize) by International Organization of Chinese Physicists and Astronomers in 2022. He was Highly Cited Researchers in 2019, 2020, 2021, 2022, 2023 by Web of Science. As an overseas partner, he has been awarded China's Top 10 Optical Breakthroughs for 5 times (2019, 2020, 2021(one in Fundamental Research, and one in Applied Research), 2023). He has been serving in Associate Editor for various journals such as JOSA B, PhotoniX, Photonics Research, and Editor-in-Chief for eLight. He also serves in Editorial Advisory Board for Laser and Photonics Review, Advanced Optical Materials, and ACS Photonics.

Speech title: Vectorial, Filter-less, Full-Stokes and High-dimensional Metasurface Photodetectors

Abstract:
Mid-infrared detectors are of critical importance for a variety of applications including thermal imaging, spectrometer, sensing and free space communication. High sensitivity, zero power consumption, fast response, simple CMOS-compatible fabrication processes, small footprint, wavelength and polarization selectivity are highly desired, while still being elusive so far especially at room temperature. In this talk, we will report a series of metasurface-mediated detectors. Non-centrosymmetric metallic nanoantennas are deployed to break the symmetry of local electromagnetic field and induce directional flow of hot carriers in graphene, leading to large unbalanced mid-IR photoresponse at room temperature without external bias. We demonstrate zero-bias uncooled mid-infrared photodetectors with three orders higher responsivity than conventional bulk photovoltaic effect (BPVE) and a noise equivalent power of 0.12 nW Hz−1/2. We further establish a scheme to realize configurable polarity transition by exploiting the vectorial and non-local photoresponse in hybrid metasurface of nanoantennas and graphene. By tuning the orientation of nanoantennas, polarization ratio (PR) values vary from positive (unipolar regime) to negative (bipolar regime), covering all possible numbers ($1 \rightarrow \infty / -\infty \rightarrow -1$). Polarization-angle perturbation down to 0.03° Hz−1/2 in the mid-infrared range is demonstrated. We will also report on-chip filterless photodetectors in mid-infrared which solely responds to circular polarizations. We finally showcase how machine learning could enable be full-Stokes photodetection and high-dimensional sensing of light's properties.

Plenary Speaker III: Ahmed A Kishk

Ahmed A Kishk
Concordia University
Montreal, Canada

Speaker's Biography:

Ahmed A. Kishk received a BSc in Electronics and Communication Engineering from Cairo University, Cairo, Egypt, in 1977 and a BSc. in Applied Mathematics from Ain-Shams University, Cairo, Egypt, 1980. In 1981, he joined the Department of Electrical Engineering, University of Manitoba, Winnipeg, Canada, where he obtained his M. Eng. and Ph.D. degrees in 1983 and 1986. From 1977 to 1981, he was a research assistant and an instructor at the Faculty of Engineering at Cairo University. From 1981 to 1985, he was a research assistant at the Department of Electrical Engineering, University of Manitoba. From December 1985 to August 1986, he was a research associate fellow in the same department. In 1986, he joined the Department of Electrical Engineering at the University of Mississippi as an assistant professor. He was on sabbatical leave at the Chalmers University of Technology, Sweden, during the 1994-1995 and 2009-2010 academic years. He was a Professor at the University of Mississippi (1995-2011). He was the Center for Applied Electromagnetic System Research (CAESR) director from 2010 to 2011. He is a Professor at Concordia University, Montréal, Québec, Canada (since 2011) as Tier 1 Canada Research Chair in Advanced Antenna Systems. He was an Associate Editor of Antennas & Propagation Society Newsletters from 1990 to 1993. He was a distinguished lecturer for the Antennas and Propagation Society (2013-2015). He was an Editor of Antennas & Propagation Magazine (1993-2014). He was a Co-editor of the special issue, "Advances in the Application of the Method of Moments to Electromagnetic Scattering Problems," in the ACES Journal. He was also an editor of the ACES Journal in 1997. He was an Editor-in-Chief of the ACES Journal from 1998 to 2001. He was the chair of the Physics and Engineering Division of the Mississippi Academy of Science (2001-2002). He was a Guest Editor of the special issue on artificial magnetic conductors, soft/hard surfaces, and other complex surfaces in the IEEE Transactions on Antennas and Propagation, January 2005. He was a co-guest editor for IEEE Antennas and Propagation and Wireless Letter on the special cluster on "5G/6G enabling antenna systems and associated testing technologies." He was a technical program committee member for several international conferences. He was a member of the AP-S AdCom (2013-2015). He was the 2017 AP-S president.

Prof. Kishk's research interest is broad in Electromagnetic Applications. He has recently worked on millimeter-wave antennas for 5G/6G applications, Analog beamforming networks, Electromagnetic Bandgap, artificial magnetic conductors, soft and hard surfaces, phased array antennas, reflectors/transmitarray, and wearable antennas. In addition, he is a pioneer in Dielectric resonator antennas, microstrip antennas, small antennas, microwave sensors, RFID antennas for readers and tags, Multi-function antennas, microwave circuits, and Feeds for Parabolic reflectors. He has published over 465 refereed journal articles, 550 international conference papers, and 125 local and regional conference papers. He co-authored four books and 13 chapters and was the editor of eight books. He offered several short courses at international conferences. According to Google Scholar, his work was cited over 34930 with an H-index of 79 in the 9th edition of Research.com ranking of the best scientists in Electronics and Electrical Engineering; it is based on data consolidated from various sources, including OpenAlex and CrossRef. The bibliometric data for estimating the citation-based metrics were gathered on December 21, 2022. Prof. Kishk was ranked first at Concordia University, 23rd in Canada, and 401 worldwide. ScholarGPS has placed Dr Kishk in the top 0.05% of all scholars worldwide, with # 231 in Electrical Engineering, #4 in Antennas, # 5 in Dielectric, and #78 in Microwave.

Prof. Kishk and his students received several awards. He won the 1995 and 2006 outstanding paper awards for papers published in the Applied Computational Electromagnetic Society Journal. He

received the 1997 Outstanding Engineering Educator Award from the Memphis section of the IEEE. He received the Outstanding Engineering Faculty Member of the Year in 1998 and the 2009 Faculty Research Award for Outstanding Research Performance in 2001 and 2005. He received the Award of Distinguished Technical Communication for IEEE Antennas and Propagation Magazine's entry, 2001. He also received The Valued Contribution Award for an outstanding Invited Presentation, "EM Modeling of Surfaces with STOP or GO Characteristics – Artificial Magnetic Conductors and Soft and Hard Surfaces," from the Applied Computational Electromagnetic Society. He received the Microwave Theory and Techniques Society Microwave Prize in 2004. He received the 2013 Chen-To Tai Distinguished Educator Award of the IEEE Antennas and Propagation Society. In recognition, "For contributions and continuous improvements to teaching and research to prepare students for future careers in antennas and microwave circuits, Kishk is a Fellow of IEEE since 1998, Fellow of Electromagnetic Academy, and a Fellow of the Applied Computational Electromagnetics Society (ACES). He is a member of the Antennas and Propagation Society, Microwave Theory and Techniques, Sigma Xi Society, and Senior member of the International Union of Radio Science, Commission B, Phi Kappa Phi, Electromagnetic Compatibility, and Applied Computational Electromagnetics Society.

Speech title: Compact Reflect/Tranmitarray Antennas

Abstract: A reflectarray (RA) antenna is a parasitic array of elements arranged periodically and spatially illuminated by a spherical wave generated by a feed located at a focal point away from the array. Conventionally, RA elements are arranged on a grounded planar surface. Thus, the focal point is virtual, chosen by the designer based on the feed characteristics. The RA antenna combines the characteristics of reflectors and array antennas. Thus, it can perform all the reflector and array antenna functions and overcome their disadvantages.

Broadband planar reflectarrays are usually achieved by designing broadband elements with a large focal-to-diameter ratio (F/D). This requires a huge volume and relatively large and heavy feed. A small F/D should be used to reduce the feed size and volume. However, planar RA with a small focal-to-diameter ratio (F/D) suffers from limited bandwidth regardless of the element bandwidth. The primary factor hindering the bandwidth is increasing the planar-RA spatial path delay from the center to the edge, which introduces substantial phase variations that cannot adequately compensate for the RA elements away from the design frequency. A faceted RA was proposed, but the structure became more complicated, particularly for a small F/D. Here, a new simple RA design approach is proposed to enhance the bandwidth. Planar RA is cut to annular rings of sub-reflectarrays (sub-RAs), with the center sub-RA being circular. The sub-RAs are displaced to lower levels below the outer sub-RA and kept at the same position as the feed to reserve feed edge illumination. An overview of RAs and the parameters that control their performance is presented. The proposed structure, referred to as "Stepped RA," is presented by an example of circularly polarized RA. Cross-bowtie elements are used in the planar- and stepped RA with an aperture diameter 25.25λ. Element rotation is employed for phase compensation. The Stepped RA reduces the relative path delay as the ray moves toward the edge. A parametric study is performed, and a simple, compact Stepped RA is designed. The performance of the Stepped RA is compared to the Planar RA. The two RA configurations are fabricated and measured. The Stepped RA exhibits a matching bandwidth of 33.4 %, a 1-dB gain bandwidth of 23.2 %, a 1-dB axial ratio bandwidth of 33.4 %, and an aperture efficiency of 51 % (at 30 GHz). Based on the results, the stepped RA 1-dB gain bandwidth is improved by 13 % over the conventional planar RA. Other forms of compact RA are presented, such as the folded RA, which requires half of the focal length of the RA, and the wrapped RA constructed from textile material, both discussed in some detail.

In addition, transmitarry (TA) is where spherical waves impinge on a planar array of elements with two sides are discussed. The feed side is a receiving array of elements terminated by other elements on the other side to reradiate as a transmitting array. As in RA, the elements compensate for the phase errors and provide the required phases to reradiate to a specific direction or shape the beam.

Plenary Speaker IV: Fan Yang

Speaker's Biography:

Fan Yang is a Professor at Electronic Engineering Department, Tsinghua University, China, and a Fellow of IEEE. He received the B.S. and M.S. degrees from Tsinghua University, and the Ph.D. degree from University of California at Los Angeles. Prof. Yang's research interests include antennas, surface electromagnetics, computational electromagnetics, and applied electromagnetic systems. He has published six books, eight book chapters, and over 500 journal articles and conference papers. Dr. Yang served as an Associate Editor for IEEE Trans. Antennas Propagation (TAP), Associate Editor-in-Chief for Applied Computational Electromagnetics Society (ACES) Journal, and TPC chair of 2014 IEEE AP-S International Symposium. He is a co-founder of Beijing Actenna Inc., which focuses on RIS hardware and system applications.

Speech Title: Surface Electromagnetics: Theory and Engineering

Abstract: From frequency selective surfaces to Huygens metasurfaces, novel electromagnetic surfaces have been emerging in both scientific exploration and engineering applications. Many intriguing phenomena occur on these surfaces, and novel devices and applications have been proposed accordingly, which have created an exciting paradigm in electromagnetics, the so-called "Surface Electromagnetics (SEM)". As a representative example, Reconfigurable Intelligent Surface (RIS) exhibits promising potential in communications, radars, imaging applications. This report will briefly introduce the development of surface electromagnetics, and then focus on the RIS design and engineering applications. Finally, the future development prospects of SEM and RIS will be discussed with participating experts and scholars.

Plenary Speaker V: Ying Liu

Speaker's Biography:

Ying Liu is a professor and the leader of the National Key Laboratory of Science and Technology on Antennas and Microwaves, Xidian University, Xi'an, China. She won the China Young Female Scientist Award in 2021 and the China Youth Science and Technology Award in 2022 by the China Association for Science and Technology, respectively. Prof. Liu is a fellow of the Institution of Engineering and Technology (IET), the Chinese Institute of Electronics (CIE), and the China Institute of Communications (CIC), respectively.

Prof. Liu's research interests include prediction and control of antenna radar cross section and antenna theories and technology. She has authored or coauthored over 200 refereed journal papers, and 2 papers have been rated as the ESI highly cited papers. She has also authored Prediction and Reduction of Antenna Radar Cross Section (Xi'an: Xidian University Press, 2010), and Antennas for Mobile Communication Systems (Beijing: Electronics Industry Press, 2011). She is the Chair of the IEEE AP Xi'an Chapter. She is also a reviewer for several international journals and serves as the TPC co-chair for several IEEE flagship conferences.

Speech Title: Antenna Radar Cross Section: Theory and Design

Abstract:

In recent years, antenna RCS reduction has received high priority in the design of many platforms since it contributes significantly to the total RCS of low-observable platforms. As a special scattering object, antenna should be used to transmit and receive the electromagnetic fields firstly. As a result, antenna RCS is distinctly different for frequencies in the operating band as compared to those out of the operating band. Thus, effective control of antenna RCS must address the in-band and out-of-band frequencies separately. However, methods those are effective out of the operating band impact the antenna performance in its operating band. How to solve the mutual constraints of antenna radiation and scattering characteristics remains a tough task. In this talk, the scattering theory for antennas, effective RCS reduction method based on polarization conversion metasurface, low-RCS antenna with high-gain, and antenna with reconfigurable RCS, etc., will be discussed.

Plenary Speaker VI: Kin-Fai Tong

Speaker's Biography: Prof. Kin-Fai (Kenneth) Tong is a Full Professor of Antennas and Applied Electromagnetics at the Department of Electronic and Electrical Engineering (EEE) in UCL. During his PhD research, he has been credited to be one of the first who introduced the idea of embedding microstrip patch antennas into mobile phone handsets. He was an Expert Researcher in the Photonic and Millimetre-wave Devices Group of the National Institute of Information and Communications Technology, Japan. Prof. Tong is a Fellow of IEEE, Chartered Engineer of UK Engineering Council, Fellow of Electromagnetic Academy US and Fellow of Higher Education Academy UK. His Innovate UK project was graded as "OUTSTANDING", i.e., the top 5%, amongst all the funded projects. Recently, his AgriTech Internet-of-Thing (IoT) Hub project supported by EPSRC IAA (EP/K503745/1) has resulted in two start-up companies and winning the UCL Provost's Spirit of Enterprise Award. Prof Tong was the general chairman of the IEEE iWEM 2017 held in UK, the Lead Guest Editor of the IEEE OJAP Special Section, the Subject Editor of IET Electronics Letters, Associate Editor of IEEE AWPL.

Speech title: Recent Advancement of Position Versatile Fluid Antenna Systems

Abstract: With research efforts gearing up to build the sixth-generation (6G) mobile communications, it is only logical to seek new mobile technologies that can provide the next generational leap for much better performance under harsher environments. To this end, one interesting concept is fluid antenna system (FAS) which utilizes flexible antenna architectures such as liquid-based antennas, reconfigurable RF pixel-based antennas, stepper motor-based antennas, etc., to enable dynamically relocatable antenna positions (i.e, port). In so doing, tremendous space diversity can be obtained in a novel way. The possibility of accessing seemingly a continuous fading envelope in the spatial domain also means that multiple access can be realized in a simple manner without complex optimization and processing. In the talk, we will share with you the recent advancement in theoretical and experimental research.

Plenary Speaker VII: Chau Yuen

Chau Yuen (IEEE Fellow, Highly Cited Researcher)
Associate Professor
School of Electrical and Electronics Engineering (EEE)
Nanyang Technological University (NTU)
Email: chau.yuen@ntu.edu.sg

Speaker's Biography:
Chau Yuen received the B.Eng. and Ph.D. degrees from Nanyang Technological University, Singapore, in 2000 and 2004, respectively. He was a Post-Doctoral Fellow with Lucent Technologies Bell Labs, Murray Hill, in 2005. Since 2023, he has been with the School of Electrical and Electronic Engineering, Nanyang Technological University. He is currently serve as Provost's Chair in Wireless Communications and Assistant Dean in Graduate College. Dr. Yuen received IEEE Communications Society Leonard G. Abraham Prize (2024), IEEE Communications Society Best Tutorial Paper Award (2024), IEEE Communications Society Fred W. Ellersick Prize (2023), IEEE Marconi Prize Paper Award in Wireless Communications (2021), IEEE APB Outstanding Paper Award (2023), and EURASIP Best Paper Award for JWCN (2021). He is an IEEE Fellow and also a Highly Cited Researcher by Clarivate Web of Science.

Speech Title: Stacked Intelligent Metasurfaces Enabled Joint Signal Processing and Communication in the Wave Domain

Abstract: We propose a new wave-based computing architecture called stacked intelligent metasurfaces (SIM) to enable joint signal processing and communication in electro-magnetic (EM) domain. An SIM is fabricated by stacking an array of programmable metasurface layers, where each layer consists of many low-cost passive meta-atoms that can individually manipulate EM waves. By appropriately configuring the passive meta-atoms, an SIM can automatically accomplish advanced computation tasks as the EM wave propagates through it, while reducing both the energy consumption and processing delay. In this talk, we will illustrate the application of SIM in multiple-input multiple-output (MIMO) and multi-user MIMO wireless communications.

Invited Talk and Oral Session

13:30-14:45, Wednesday, July 31, 2024 Jade 1 meeting room		
Special Session 1: Electric energy conversion and intelligent control ***Session Chair:*** **Tian Gao, school of Electronic and Information, Northwestern Polytechnical University** **Jing Hou, school of Electronic and Information, Northwestern Polytechnical University** **Qi Wang, school of Electronic Information Engineering, Xi'an Technological University** **Topic 5: Microelectronic Devices and Integrated Circuits**		
Paper Information		
SS1-1 13:30-13:45	Robust Estimation of Lithium-ion Battery State of Health via Improved Extreme Learning Machine *Xue Jingsong, Ma Wentao, Cai Panfei* Xian University of Technology	8409
OS5-1 13:45-14:00	Self-Supervised Learning for Camouflaged Object Detection *Zhouyong Liu, taotao Ji, Chunguo Li, Luxi Yang* southeast university	8773
OS5-2 14:00-14:15	Optimizing Antenna Design through AI Integration: A Concise Review *Xiaotian Liu, Kwok L. Chung, Wenbiao Li, Ruihong Li, Shuwei Huang, Yingsong Li* Huizhou University	8686
OS5-3 14:15-14:30	An Effective Kriging-assisted Water Flow Optimization for Ultra-wideband Monopole Antenna Design *Xianan Ling, Xingning Jia* Ningxia University	8663
OS5-4 14:30-14:45	Randomized-enhanced Magnitude Channel Pruning for Radar Jamming Detection *Xun Ni, Hao Wu, Xuan Zhu, Zhao peng Shi* Huazhong University of Science and Technology	8582
Coffee Break		

13:30-15:30, Wednesday, July 31, 2024 Jade 2 meeting room		
Special Session 2: Advanced Technologies and Emerging Applications for Active and Passive Sensors ***Session Chair:*** **Mingliang Tao, Northwestern Polytechnical University** **Jia Su, Northwestern Polytechnical University** **Yifei Fan, Northwestern Polytechnical University** **Topic 1: Communications and Network**		
Paper Information		
SS2-1 13:30-13:45	Characterizing the Mutual Terrain Scattered Interference in Spaceborne SAR Images under Different Terrains *Yu Xin, Zexi Ren, Weike Li, Huanyu Sun, Mingliang Tao* Beijing Institute of Remote Sensing Information	8674
SS2-2 13:45-14:00	Point Cloud Generation with Millimeter-Wave Radar for UAV Taxiing *Xuchen Wang, Zhaolin Zhang, Jia Su, Zixun Guo, Jun Fan* Northwestern Polytechnical University, Xi'an, China	8670
SS2-3 14:00-14:15	Automatic Radar Antenna Scan Type Recognition Based on the Residual Network *Yanyun Gong, Danzi Qubi, yifei Fan, Shuting Tang, Zixun Guo, Xiangyang Liu* School of Electronics and Information Northwestern Polytechnical University	8647
SS2-4 14:15-14:30	An Jamming Mitigation Method For Time-Domain Phase Modulation of Electromagnetic Metasurfaces *Jiarong Song, Jia Su, Guonan Cui, Zhaolin Zhang, Tao Li, Xiangyang Liu* School of Electronics and Information	8592
SS2-5 14:30-14:45	Statistical Characteristics Analysis based on a Measured Ku-band Sea Clutter Dataset *Zijun Zhang, Yifei Fan, Shaofeng Zhang, Jia Su, Zixun Guo, Mingliang Tao* Northwestern Polytechnical University	8482
OS1-1 14:45-15:00	Efficient Multi-UAV Path Planning for Wireless Data Harvesting: A Deep Reinforcement Learning Approach *Nawaf Qasem Hamood Othman, Haithm M. Al-Gunid, Imran Younas* Xidian University	8785
OS1-2 15:00-15:15	Soft Multipath Information-Based UWB Tracking in Cluttered Scenarios: Preliminaries and Validations *Chenglong Li, Zukun Lu, Long Huang, Shaojie Ni, Guangfu Sun, Emmeric Tanghe, Wout Joseph* National University of Defense Technology	8433
OS1-3 15:15-15:30	Research on multidimensional reconstruction security billing strategy in cloud native scenarios *Sheng Shuo, Che Kun* Chengfang Financial Information Technology Services Co., Ltd	8379
Coffee Break		

13:30-15:25, Wednesday, July 31, 2024 Jade 3 meeting room		
Special Session 3: Antennas and antenna arrays for MMW and THz applications ***Session Chair:*** **Qiubo Ye, School of Ocean Information Engineering, Jimei University** **Tongyu Ding, School of Ocean Information Engineering, Jimei University** **Jun Xiao, School of Ocean Information Engineering, Jimei University**		
Paper Information		
SS3-1 13:30-13:50	Broadband and High-Gain High-Order-Mode Fed Antenna Array for Millimeter-Wave Applications ***(Invited Talk)*** *Wenyu Zhao, Xiuping Li, Zihang Qi* Beijing University of Posts and Telecommunications	8750
SS3-2 13:50-14:10	Design and Simulation of Channel Simulator for Complex Enclosed Space ***(Invited Talk)*** *Yan Wang, Tao Zhang, Danqing Zou, Yu Mao* Shenyang Aircraft Design and Research Institute	8467
SS3-3 14:10-14:25	A Wideband 8-Element Dual-Circularly-Polarization Dielectric Rod Antenna for 5G Millimeter-Wave Communications *Yani Huang, Guji Gong, Mengchun Wu, Chong-Zhi Han, Yinqing Fang* Jimei University	8517
SS3-4 14:25-14:40	Broadband Orthomode Transducer Based on the Boifot Junction *Jizhao Wang* The China Mobile Group Device Co., Ltd	8516
SS3-5 14:40-14:55	A Series-fed Frequency-scanning Antenna for UAV's Obstacle Avoidance Radar *Feixiang Luo, Quan Sun, Mengchun Wu, Chong-Zhi Han, Lu Liu* Jimei University	8512
SS3-6 14:55-15:10	Design of a Potter Horn Antenna *Jing Wu, Chongzhi Han, Xuchu Deng, Jun Xiao* Jimei University	8455
SS3-7 15:10-15:25	A Serial-Fed Antenna Implementation for 60GHz Millimeter-Wave Radar Altimetry on Unmanned Aerial Vehicles *Yong Hu, Quan Sun, Daiweixuan Yang, Tongyu Ding, Ying Huang* Jimei University	8454
Coffee Break		

13:30-15:20, Wednesday, July 31, 2024 Jade 4 meeting room		
Topic 7: Sensors **Topic 4: Microelectronic Devices and Integrated Circuits** ***Session Chair:*** **Zheng Shilie, Zhang Xianmin, Hui Xiaonan, Cai Tong** **Zhejiang University** **Air Force Engineering University**		
Paper Information		
OS7-1 13:30-13:50	Electromagnetic Model and Validation of Multi-point Near-field Cardiac Sensing System ***(Invited Talk)*** *Li Chenming, Zheng Shilie, Zhang Xianmin, Hui Xiaonan* Zhejiang University	8808
OS4-1 13:50-14:05	Detection of Hardware Attacks in Network on Chip Based on Machine Learning *Ruhui Ding, Ying Zhang, Shuying Xia, Zixiao Wang, Jie Deng, Xin Chen* Nanjing University of Aeronautics and Astronautics	8807
OS4-2 14:05-14:20	Design and Optimization of a Low-Noise Mixer Using Advanced Design System (ADS) for RF Applications *Xudong Hao, Xiao Wang, Shuo Chen, Zhengquan Zu, Zixi Li, Yansheng Li* Qingdao University of Technology	8714
OS4-3 14:20-14:35	Modulation and Demodulation A Defense Method Against Weight Bit-Flip Attacks in Floating Point CNN Hardware Accelerators *Wang Zixiao, Zhang Ying, Ding Ruhui, Xia Shuying, Fang Zhiyu, Chen Xin* Nanjing University of Aeronautics and Astronautics	8649
OS4-4 14:35-14:50	Error Compensation based Approximate Booth Multiplier with Improved Booth Encoder and Low Complexity Compressor *Zhiming Zhu, Junqi Huang, Hongyi Zhang, Huali Jiang, Xingen Gao* Xiamen University of Technology	8597
OS4-5 14:50-15:05	An approach to enhance the efficiency of RISC-V verification using intelligent algorithms *Shuying Xia, Ying Zhang, Zixiao Wang, Ruhui Ding, Hewei Cui, Xin Chen* Nanjing University of Aeronautics and Astronautics	8551
OS4-6 15:05-15:20	An Energy Efficient CMA Equalizer based on Approximate Computing *Junjie Zhou, Ke Chen* Nanjing University of Aeronautics and Astronautics	8486
Coffee Break		

13:30-15:30, Wednesday, July 31, 2024
Jade 5 meeting room

Special Session 4: 5G/6G LEO Satellite Mobile Communication
Session Chair:
Qin Hao, Xidian University, hqin@mail.xidian.edu.cn
Lei Jizhao, China Satellite Network System Co.,Ltd., xdljz2000@163.com
Zhen Li, Xi' an University of Posts and Telecommunications, lzhen@xupt.edu.cn

Topic 8: Electrical Engineering and Automatic Control

Topic 2: Signal Processing (SP) and Information Technology

Paper Information

SS4-1 13:30-13:45	Joint User Activity Detection and Channel Estimation for Grant-Free Temporal-Correlated Random Access in LEO Satellite Based IoT *Sheng Zhong, Li Zhen, Shuchang Li, Ping Dong, Hao Qin* Xi'an University of Posts and Telecommunications	8697
SS4-2 13:45-14:00	A Concatenated Mapping ZC Sequences Based Large-Capacity Grant-Free Random Access Preamble Design Method for Satellite Internet of Things *Mingke Ma, Li Zhen, Shuchang Li, Chenchen Pei, Hao Qin* Xian University of Posts and Telecommunications	8656
SS4-3 14:00-14:15	Chaotic Weighting Random Integration-Based Data Augmentation for Radio Frequency Fingerprint Identification With Extremely Small Sample Size *Haotian Zhang, Yuan Jiang, Lei Zhao* 1. School of Electronics and Communication Engineering, Sun Yat-Sen University, Shenzhen, China. 2. Guangdong Provincial Key Laboratory of Sea-Air-Space Communication, Shenzhen, China.	8566
SS4-4 14:15-14:30	A Flexible Resource Allocation Algorithm in Dual-Timescale Beam Hopping Satellite Systems *Shuangyi Li, Haoyu Sun, Jizhao Lei, Hao Qin* Xidian University	8530
OS8-1 14:30-14:45	EFT immunity test and damage localization of C-band limiters *Jiacheng Ma, Weiheng Shao, Deren Feng, Zhaoquan Chen, bin Liu* Anhui University of Technology	8831
OS8-2 14:45-15:00	Robust Event-Triggered Model Predictive Control for Uncertain Linear Parameter-Varying Systems *Hongru Jiang, Yue Guo, Tianxin Liu, Quan-Yong Fan, Kuan Lu* Northwestern Polytechnical University	8682
OS8-3 15:00-15:15	Path planning method for maritime drones based on NSGA II algorithm *Xiang Li* Hubei University	8619
OS2-1 15:15-15:30	Gridless Parameter Estimation for Integrated Sensing and Communications in Cellular Networks *Mengguan Pan, Yingsong Li, Lixia Yang, Anqi Xue, Zhixiang Huang, Guisheng Liao* School of Electronic and Information Engineering, Anhui University	8783

Coffee Break

15:50-17:25, Wednesday, July 31, 2024 Jade 1 meeting room		
Special Session 6: Radio Fuze Detection Technology ***Session Chair:*** **Xu Rui, Xi 'an Institute of Electromechanical Information Technology** **Topic 2: Signal Processing (SP) and Information Technology**		
Paper Information		
SS6-1 15:50-16:10	Wide Solid Angle Scanning Conical Conformal Phased Array Antenna Based on Bidirectional Beam ***(Invited Talk)*** *Qiuyan Liang, Rui Xu, Zikang Xing* Science and Technology on Electromechanical Dynamic Control Laboratory	8477
SS6-2 16:10-16:25	A Design on Silicon-Based Millimeter-Wave Low Noise Amplifier Circuits *Zikang Xing, Qiuyan Liang, Rui Xu* Xi'an Institute of Electromechanical Information Technology	8544
OS2-2 16:25-16:40	A Self-interference Canceller Design Based on Knowledge-driven Neural Network *Peng Gao, Jinling Xing, Songhu Ge, Yu Guo, Zhongpu Cui, Fangmin He* College of Electrical Engineering, Zhejiang University	8780
OS2-3 16:40-16:55	Simultaneous Continuous- and Discrete-Time Unknown Input Filtering *CHIEN-SHU HSIEH* Chinese Culture University	8751
OS2-4 16:55-17:10	Characterization and Analysis of Mutual Terrain-Scattered Interference Based on Different Jamming Signal Waveforms *Zexi Ren, Zhaolin Zhang, Mingliang Tao, Zixun Guo, Jia Su* Northwestern Polytechnical University Xi'an, China	8673
OS2-5 17:10-17:25	Interrupted sampling forwarding jamming parameter estimation based on YOLOv7-tiny *Zhao peng Shi, Hao Wu, Xuan Zhu, Wan tian Wang, Xun Ni, Jia hao Zhang* School of Electronic Information and Communications, Huazhong University of Science and Technology	8564

15:50-17:50, Wednesday, July 31, 2024 Jade 2 meeting room		
Special Session 7: Miniatured Wideband Antenna ***Session Chair:*** **Wang Xiao Fei, Beijing Institute of Space Long March Vehicle** **Topic 2: Signal Processing (SP) and Information Technology**		
Paper Information		
SS7-1 15:50-16:05	A novel tightly coupled dual-polarized crossed dipole array antenna *Xuebin Li, Ziyu Zhang, Xianbao Zheng, Jieying Bai, Xi Li, Jiawei Yang* Xidian University	8752
SS7-2 16:05-16:20	Ultra-Wideband Microstrip Patch Antenna with the Profile of 1.6 mm Covering 3.14~5.51 GHz for 5G Mobile Terminal Applications *Heng Zhang, Le Chang, Zhang Anxue* Xi'an Jiaotong University	8709
SS7-3 16:20-16:35	Fast Measurement of Single-Cut Far-Field Pattern of two-dimensional antenna array at a Quasi-Far-Field Range *Junshuo Shui, Shuangqi Wang, Sibo Deng, Xianbao Zheng, Xi Li* School of Information Science and Engineering Wuhan University of Science and Technolog	8699
OS2-7 16:35-16:50	Widely Linear Beamforming via Interpolated Difference-Sum Co-Array in Satellite Communications *Zhen Meng, Feng Shen, Fuqiang Li* China University of Mining and Technology	8531
OS2-8 16:50-17:05	Exact Observation Based Phase Preservation Bistatic SAR Sparse Imaging: Initial Result *Zhefan Jin, Jingjing Zhang, Yufan Song, Hui Bi* Nanjing University of Aeronautics and Astronautics	8476
OS2-9 17:05-17:20	A Novel Complex-Valued Network for Phase Preservation Sparse SAR Imaging: Initial Result *Lingyu Li, Hui Bi, Jingjing Zhang, Yufan Song, Qian Guo* Nanjing University of Aeronautics and Astronautics	8475
OS2-10 17:20-17:35	Research on Interference Methods for Interferometer Direction-finding Based on Dual-point Source Co-processing *Qi Zhao, Zhonghao Lu, Shunping Xiao* National University of Defense Technology	8370
OS2-11 17:35-17:50	Trial Study on Sea Clutter Identification and Target Detection *Hongguang Ma, Jinku Guo, Buyu Zhang, Binzhou Yan, Jian Wu, Weifeng Chen* Xi'an Daheng Tiancheng IT Co. Ltd	8238

15:50-17:45, Wednesday, July 31, 2024 Jade 3 meeting room		
Special Session 8: microwave nonlinearity and microwave sensing ***Session Chair*:** **Ming Ye, College of Information and Control Engineering, Xi'an University of Architecture and Technology** **Xiaolong Zhao, School of Microelectronics, Xi'an Jiaotong University** **Topic 3: Microwave Technology and Antennas**		
Paper Information		
SS8-1 15:50-16:10	Preliminary Study on Silicon Wafer Characterization Using Quasi-Optical Resonator ***(Invited Talk)*** *Wang Xueer, Ming Ye, Haotian Guo* Xian University of Architecture and Technology	8794
SS8-2 16:10-16:30	Modeling and EM Simulation Methods of Nonlinear Effects in Passive Microwave Components ***(Invited Talk)*** *Xiaolong Zhao* Xi'an Jiaotong University	None
SS8-3 16:30-16:45	Preliminary Study on Noncontact Measurement of Mechanical Vibration by Near-field Microwave *Ye Ming, Yongjiang Bai, Haolin Shi, Jianqiao Chen, Fang Yang* Xian University of Architecture and Technology	8790
SS8-4 16:45-17:00	Measurement of Sheet Resistance of Heated Coated Glass using Cylindrical Cavity Resonator *Wei Liu, Ming Ye, Gang Yu* Xian University of Architecture and Technology	8584
OS3-1 17:00-17:15	A novel 2×6 beamforming network for shaping flat-topped radiation patterns *Li Sun, Wang Li, Yihang Li, Junyi Gu, Yangming Wan, Guanjun Qian* Northwestern Polytechnical University	8843
OS3-2 17:15-17:30	Design of a broadband tightly coupled circular array antenna *Li Sun, Yihang Li, Wang Li, Junyi Gu, Yangming Wan, Guanjun Qian* Northwestern Polytechnical University	8842
OS3-3 17:30-17:45	A High Gain Omnidirectional Dipole Array Antenna for WiFi-6E *Wenzhe Gu, Botao Feng, Yiyuan Luo, Xuexin Zhu, Yun Lu* Huizhou University	8771

15:50-17:50, Wednesday, July 31, 2024 Jade 4 meeting room		
Special Session 9: Design and Evaluation of Antenna Arrays for Next Generation Communications ***Session Chair*:** **Xiaoming Chen, Xi'an Jiaotong University** **Luyu Zhao, Anhui University**		
Paper Information		
SS9-1 15:50-16:10	Radiation Pattern Decoupling of E-Plane SIW Cavity-Based Slot Antenna and Arrays ***(Invited Talk)*** *Mingqi Li, Nan Yang, Kwok Wa Leung, Kai Lu, Peng Fei Hu, Yunliang Long* Sun Yat-sen University	8574
SS9-2 16:10-16:30	Field Behavior Control and Evaluation of Beamforming Near-Field Antenna Array ***(Invited Talk)*** *Ruizhi Liu, Zhian Deng, Weijian Si, Ke Wu* Harbin Engineering University	8571
SS9-3 16:30-16:50	MIMO Over-the-Air Testing for Wideband Carrier Aggregation Applications with a Radiated Two-Stage Method ***(Invited Talk)*** *Huaqiang Gao, Xiaoming Chen* Xi'an Jiaotong University	8474
SS9-4 16:50-17:05	A kind of Sub-6 GHz/Millimeter Wave Dual-Wideband Shared-Aperture Antennas by Reusing the Mushroom Structure *Geng Xin, Yang Wen-Wen, Chen Jian-Xin* Nantong University	8613
SS9-5 17:05-17:20	Diagnosis Using Equivalent Magnetic Current Method for Transmitarry based CART *Jiaqian Ding, Junhao Zheng, Xiaobo Liu, Xiaoming Chen* Xi'an Jiaotong University	8590
SS9-6 17:20-17:35	Fast Total Radiated Power Tests Based on Igloo Sampling *Jianchuan Wei, Xiaoming Chen* Xian Jiaotong University	8465
SS9-7 17:35-17:50	A Gain-Enhanced 77GHz Series-fed Patch Antenna *Xinyue Guo, Qian Chen, Bowen Wu, Songlin Yan, Minjia Chai, Zhixiang Huang* Anhui university	8463

15:50-17:40, Wednesday, July 31, 2024 Jade 5 meeting room		
Special Session 10: Advanced multifunctional metasurfaces: physics and applications ***Session Chair*:** **Prof. Hongyu Shi, Xi'an Jiaotong University** **Prof. Jiafu Wang, Airforce Engineering University** **Topic 3: Microelectronic Devices and Integrated Circuits**		
Paper Information		
SS10-1 15:50-16:10	Janus Metasurfaces for Directional Control of Electromagnetic waves ***(Invited Talk)*** *Chen Ke* Nanjing University	8721
SS10-2 16:10-16:25	Microwave Polarization Detection System Based on Spoof Localized Surface Plasmons *Fei Ma, Yumeng Yang, Bo Wang, Hongsheng Chen, Fei Gao* Zhejiang University	8743
SS10-3 16:25-16:40	The sub-diffraction microwave needle beam generated by transmissive metasurface *Jialin Feng, Hongyu Shi, Jianjia Yi, Juan Chen, Xiaoming Chen, Anxue Zhang, Zhuo Xu* Xian Jiaotong University	8601
SS10-4 16:40-16:55	Multi-polarized Phase Reconfigurable Metasurface *Weiren Zhu, Jie Tian* Shanghai Jiao Tong University	8508
SS10-5 16:55-17:10	Design and Applications of Metasurfaces with Independent Amplitude and Phase Control *Yunhao Jiao, Hongyu Shi, Xiaoming Chen, Jianjia Yi, Juan Chen, Anxue Zhang, Haiwen Liu* xian jiaotong university	8507
OS3-4 17:10-17:25	All-Metal Metamaterial Based Leaky Wave Antenna with High Power Capacity and Fixed Frequency Beam Scanning *Yu Yang, Yeping Zhang, Ping Xie, Bixiao Jiang, Shitao Chen, Chuan Yu* Institute of Applied Electronics, China Academy of Engineering Physics	8605
OS3-5 17:25-17:40	A Study on the Wide-Angle Stability of Programmable Metasurfaces with Rectangular and Triangular Grids *Linying Fang, Lu Liu, Peng Chen, Tongyu Ding* School of Ocean Information Engineering, Jimei University, Xiamen 361021, China	8515

13:30-15:20, Thursday, August 1, 2024 Jade 1 meeting room		
Special Session 12: AI-based radar target detection, imaging, and recognition ***Session Chair*:** **Cunqian Feng, Air Force Engineering University, Xi'an, China** **Weike Feng, Air Force Engineering University, Xi'an, China** **Xiaowei Hu, Air Force Engineering University, Xi'an, China** **Session 26: Green Communication for 6G** **Organizer:** **Li Xingwang, Henan Polytechnic University, lixingwang@hpu.edu.cn** **Hao Wanming, Zhengzhou University, iewmhao@zzu.edu.cn** **Yue Xinwei, Beijing Information Science and Technology University, xinwei.yue@bistu.edu.cn**		
Paper Information		
SS12-1 13:30-13:50	Clutter Suppression Based on ICUR-RPCA for Random Missing Data ***(Invited Talk)*** *Yifan Guo, XiXi Chen, Yingmin Wang* Northwestern Polytechnical University	8778
SS12-2 13:50-14:05	Deep unfolding based microwave imaging with spin-decoupled programmable metasurface *Fan Zhang, Weike Feng, Chaohui Wang, Tong Liu, Tao Pu, Huanhuan Gao, Zhengjie Wang, He-Xiu Xu* Air Force Engineering University	8799
SS12-3 14:05-14:20	Ultra-Low Altitude Target Intelligent Recognition via Airborne Pulse-Doppler Radar *Zhaolong Wang, Weike Feng, Xiaokuan Zhang, Tao Pu, Xixi Chen, Binfeng Zong* Air Force Engineering University	8667
SS12-4 14:20-14:35	Radar HRRP Estimation Based on Deep Unfolding Networks under Interrupted Sampling Repeater Jamming *Tao Pu, Weike Feng, Pengcheng Wan, Xiaowei Hu, Yiduo Guo, Xixi Chen* Air Force Engineering University	8572
SS12-5 14:35-14:50	A Real-Valued Off-Grid DOA Estimator Via Sparse Bayesian Learning Exploiting Wishart prior *Ninghui Li, Xiaokuan Zhang, Weike Feng, Fan Lv, Zhaolong Wang, Binfeng Zong* Air Force Engineering University	8490
SS12-6 14:50-15:05	Intelligent Perception Method of Shipborne Radar Jamming Signal Based on YOLOv8 *Xuan Zhu, Hao Wu, Fangmin He, Zhaopeng Shi, Xi Yu, Jin Meng* School of Electrical Engineering and Automation, Wuhan University	8418
SS26-1 15:05-15:20	Two-Stage High Precision Positioning for mm-Wave OFDM Systems *Junxia Li, Xin Wang, Zhengyu Zhu, Wanming Hao, Yongjun Xu, Xingwang Li* Henan Polytechnic University	8479
Coffee Break		

13:30-15:30, Thursday, August 1, 2024 Jade 2 meeting room		
Special Session 13: Recent Progress of Artificial Intelligence in Cyberspace Security, Information and Communications Technology ***Session Chair*:** **Zhipan Wu, Huizhou University** **Xiaoye Wang, Huizhou University**		
Paper Information		
SS13-1 13:30-13:50	Analog Circuit Fault Diagnosis Based on Residual Network and Deep Channel Attention ***(Invited Talk)*** *Lijian Zhou, Qingyu Meng, Yiping Sun, Yilin Lu, yuanfeng Zhang* Qingdao University of Technology	8820
SS13-2 13:50-14:10	Enhancing Precision Agriculture: YOLOv8 for Accurate Corn Disease and Pest Detection ***(Invited Talk)*** *Zhipan Wu, Yunhe Jiang, Xinyi Li, Kwok L. Chung* Huizhou University	8444
SS13-3 14:10-14:30	Prediction method of small sample formation fracture pressure based on BP neural network ***(Invited Talk)*** *Lijian Zhou, Yifan Kong, Mengyuan Wang, Wenchao Zhang, Kun Zhao* Qingdao University of Technology	8824
SS13-4 14:30-14:45	AI-Powered Cybersecurity: Enhancing Threat Detection and Defense in the Digital Age Xianni Zhang, Pengfei Wang, Haonan Jia, Zhen Huang, Runfeng Zhao Beijing Polytechnic College	8834
SS13-5 14:45-15:00	Design and Implementation of An Intelligent Automated System for Industrial Lamp Cup Inspection and Grading based on Machine Vision *Jiaji Zhang, Dongxiong Li, Chengjie Wei, Xiaoye Wang, Gang Peng* Huizhou University	8726
SS13-6 15:00-15:15	Multi-Scale SE-SK Network for Human Falling Detection using IR-UWB Radars *Qinhuan Yang, Xiaoye Wang, Xinyue Kang, Yulan Zhang, Jianchao Zheng* Huizhou University	8716
SS13-7 15:15-15:30	Design and Optimization of Quad-Band Qing-Shaped Patch Antenna Using CMA-Surrogate Model *Yingqi Pei, Kwok L. Chung, Caiying Li, Zhipan Wu, Guoming Lai* Huizhou University	8415
Coffee Break		

13:30-15:35, Thursday, August 1, 2024 Jade 3 meeting room		
Special Session 14: Emerging Sensing and Precision Measurement Technology ***Session Chair*:** **Yongjun Huang, University of Electronic Science and Technology of China** **Kai Chen, University of Electronic Science and Technology of China** **Guangwei Deng, University of Electronic Science and Technology of China** **Topic 3: Microwave Technology and Antennas**		
Paper Information		
SS14-1 13:30-13:50	Research and Experiment on Shock Protection Technology of High Overload MEMS Gyroscope ***(Invited Talk)*** *Boyu Hao, Huiliang Cao* North University of China	8558
OS3-6 13:50-14:05	Enhanced Harris Hawks Optimization Algorithm for Helical Array Synthesis *Tianlong Li, Yang Yang* College of Electronic Information, Sichuan University	8484
SS14-2 14:05-14:20	The optimal design of cavity optomechanical micro-hemispherical gyroscope *Maoyuan Wang, Senyu Zhang, Jun Liu, Zhe Li, Haoxuan Jiang, Xiaoliang Luo, Zhe Ji, Guangjun Wen, Yongjun Huang* School of Information and Communication Engineering University of Electronic Science and Technology of China Chengdu, China	8606
SS14-3 14:20-14:35	Attitude Measurement Based on Differential Array of MEMS Inertial Sensors *Haile Bai, Du Chen, Haomiao Jiang, Gang Li, Xiaoliang Luo, Zhe Ji, Guangjun Wen, Yongjun Huang* School of Information and Communication Engineering ,University of Electronic Science and Technology of China, Chengdu, China	8588
SS14-4 14:35-14:50	Design and realization of a high-precision cavity optomechanical accelerometer *Chengwei Xian, Pengju Kuang, Zhe Li, Xinwei Li, Xiaoliang Luo, Zhe Ji, Guangjun Wen, Yongjun Huang* University of Electronic Science and Technology	8554
OS3-7 14:50-15:05	A Non-contact Choke Structure for Broadside Adjustable Waveguide Phase Shifter *Xin Li, Bangji Wang* Southwest Jiaotong University	8478
OS3-8 15:05-15:20	A Compact Wide Load Rectifier Based on a grounded transmission line *Rufan Liu, Xuan Fan, Zijun Ma, yang yang, Huacheng Zhu* College of Electronics and Information Engineering, Sichuan University	8448
OS3-9 15:20-15:35	Digital Twin System for Reflector Antenna Structure Performance Evaluation Based on Surrogate Model *Hanwei Cui, Binbin Xiang, Wei Wang, Peiyuan Lian, Jianping Zhou, Shangmin Lin* Xinjiang University	8440
Coffee Break		

13:30-15:30, Thursday, August 1, 2024 Jade 4 meeting room		
Special Session 15: Advanced Filtering Components ***Session Chair*:** **Xiaolong Wang, College of Electronic Science & Engineering, Jilin University** **Baoping Ren, school of Information Engineering, East China Jiaotong University**		
Paper Information		
SS15-1 13:30-13:50	Multi-Band High-Temperature Superconducting Differential Bandpass Filters ***(Invited Talk)*** *Baoping Ren, Xuehui Guan* East China Jiaotong University	8768
SS15-2 13:50-14:10	Research Progresses of Vacuum Electronic Devices in AIRCAS ***(Invited Talk)*** *Wenxin Liu, Kedong Zhao, Zhihao Jin, Zhiqiang Zhang, Zhaochuan Zhang* Aerospace Information of Research Institute, Chinese Academy of Sciences	None
SS15-3 14:10-14:30	Microwave Ammonia Sensor Based on Waveguide Circuit ***(Invited Talk)*** *Quan Jin, Juhua Xu, Chang Xu, Xiaolong Wang* Jilin University	8495
SS15-4 14:30-14:45	Wide-Stopband HMSIW Filter Using Interdigital-Slot-Loaded Complementary Split-Ring Resonator and Ring-Mushroom-Shaped Slow-Wave Unit Cells *Yujian Huang, Yong Mao Huang, Xiang long Wang* Xihua University	8793
SS15-5 14:45-15:00	A Novel Power Divider With Tunable Power Ratios and Reconfigurable Output Phase Differences *Jialin Huang, Xulong Guo, Shanshan Xue, Chang Xu, Yong Mao Huang, Xiaolong Wang* Jilin University	8493
SS15-6 15:00-15:15	Compact Lowpass Filter Based on Asymmetric Spoof Surface Plasmon Polaritons *Shengli Long, Baoping Ren, Chenguang Zhao, Wenjian Chen, Xuehui Guan* East China Jiaotong University	8402
SS15-7 15:15-15:30	A Flexible Graphene-Based Antenna for RF Vortex Generation *Shoudong Gu, Zuxian He, Xiaolong Wang, Volodymyr I Fesenko, Vladimir R Tuz* State Key Laboratory on Integrated Optoelectronics College of Electronic Science and Engineering International Center of Future Science, Jilin University	8377
Coffee Break		

13:30-15:25, Thursday, August 1, 2024 Jade 5 meeting room		
Special Session 16: Key Enablers for Smart Wireless Environments in the Era of 5G and Beyond ***Session Chair*:** **Ke Guan, Beijing Jiaotong University** **Wei Wang, Chang'an University** **Pan Tang, Beijing University of Posts and Telecommunications** **Special Session 13: Recent Progress of Artificial Intelligence in Cyberspace Security, Information and Communications Technology** ***Organizer:*** **Zhipan Wu, Huizhou University** **Xiaoye Wang, Huizhou University**		
Paper Information		
SS16-1 13:30-13:50	Intelligent Interpretation and Application of Remote Sensing Images Under Information Constraints ***(Invited Talk)*** *Jie Feng* Xidian University	8810
SS16-2 13:50-14:10	Near-Field Channel Modeling for RIS-Enabled UAV Communications ***(Invited Talk)*** *Wangqi Shi, Hao Jiang* NUIST	8704
SS16-3 14:10-14:25	Ray-Tracing based CDL Modeling for C-V2X Scenarios with Multiple Roadside Vehicles *Yiran Wang, Danping He, Hao Duo, Hao An, Ke Guan, Dao Tian, Andrej Hrovat* Beijing Jiaotong University	8744
SS16-4 14:25-14:40	Analysis of Low-Altitude UAV-to-Ground Channel Characteristics in Rural Environment *Yuanfeng He, Yufan Wang, Haochuan Yue, Jiahui Chai, Yuzhe Sun, Yue Lyu, Qinghui Wu, Wei Wang* Chang'an University	8473
SS16-5 14:40-14:55	An Experimental Analysis of Channel Similarity in the UMa Scenario for 6G FR3 Communications *Ke Chen, Pan Tang, Tao Jiang, Huixin Xu, Gaofeng Nie, Lei Tian, Jianhua Zhang* Beijing University of Posts and Telecommunications	8383
SS13-8 14:55-15:10	Comparative Analysis of Object Detection Algorithms for Wood Defect Detection *Yaxuan Fang, Wanjie Huang, Chunwei Zheng, Xi Huang, Ming-Tzau Lin, Jung-Kuei Yang* Dongguan University Of Technology	8690
SS13-9 15:10-15:25	YOLO-LRHG: Long Range Hand Gesture detection using YOLO with attention mechanism *Yu-Yu Yang, Hsu-Han Yang, Jung-Kuei Yang* Dong Hwa University	8689
Coffee Break		

15:50-17:35, Thursday, August 1, 2024 Jade 1 meeting room		
Special Session 17: 6G multi-beam reconfigurable/scanning antenna and city development ***Session Chair*:** **Botao Feng, Shenzhen University** **Wenzhe Gu, Huizhou University**		
Paper Information		
SS17-1 15:50-16:05	A Polarization Reconfigurable Magneto-Electric Dipole Antenna for 2.2-2.7 GHz Band *Xuhang Zhou, Botao Feng, Xiao Ding, Li Deng, Wenzhe Gu, Qingsheng Zeng* Shenzhen University	8765
SS17-2 16:05-16:20	A Broadband Array Antenna Based on E-Shaped Folded Strip Elements for Millimeter-Wave N259/N260 Applications *Xi Wu, Botao Feng, Xiao Ding, Wenzhe Gu, Li Deng, Qingsheng Zeng* Shenzhen University	8762
SS17-3 16:20-16:35	Dual-Band Printed Antenna Design for Bluetooth and WLAN Applications *Naveed Hamid Nawaz Khan, Botao Feng, Xiao Ding, Wenzhe Gu, Li Deng, Kwok L. Chung* Shenzhen University	8761
SS17-4 16:35-16:50	Application of Evolutionary Computing for Optimal Design of Base Station Antenna *Naveed Hamid Nawaz Khan, Botao Feng, Xiao Ding, Li Deng, Wenzhe Gu, Kwok L. Chung* Shenzhen University	8760
SS17-5 16:50-17:05	A Reconfigurable Reflectarray Antenna at X-band *Lin Du, Botao Feng, Xiao Ding, Li Deng, Wenzhe Gu, Qingsheng Zeng* Shenzhen University	8758
SS17-6 17:05-17:20	A Leaky-Wave Beam Scanning Antenna with PIN Diodes *Gengbo Xiao, Botao Feng, Xiao Ding, Li Deng, Kwok L. Chung, Wenzhe Gu* Shenzhen University	8756
SS17-7 17:20-17:35	Device-free Human Activity Recognition Based on CSI Characteristic *Wei Yang, Xiaojun Jing, Hai Huang, Jinru Liu, Lei Ning, Botao Feng* Shenzhen Technology University	8420

15:50-17:50, Thursday, August 1, 2024 Jade 2 meeting room		
Special Session 18: Efficient transmission and networking technology of satellite Internet for unmanned systems ***Session Chair*:** **Xin Yang, Northwestern Polytechnical University,** **Dawei Wang, Northwestern Polytechnical University** **Special Session 20: Optimal design of Intelligent metasurface-assisted systems** ***Session Chair*:** **Li Deng, Beijing University of Posts and Telecommunications** **Sixing Yin, Beijing University of Posts and Telecommunications**		
Paper Information		
SS18-1 15:50-16:05	A Time Allocation-Based User Position Monitoring for Satellite Networks *Ting Liu, Qian Xu, Xin Yang, Yanyun Gong, Jian Xie* Northwestern Polytechnical University	8804
SS18-2 16:05-16:20	Ground-based Radio Navigation Base Station Deployment Method based on Improved Multi-Objective Particle Swarm Optimization *Jiawei Liu, Chengyan He, Zhaolin Zhang, Chuang Han, Ling Wang, Mingliang Tao* Northwestern Polytechnical University	8688
SS18-3 16:20-16:35	Research on anti-jamming antenna based on Tiantong satellite *ZhongYing Liang, ZhaoLin Zhang, Ling Wang* Northwestern Polytechnical University	8595
SS18-4 16:35-16:50	Research on Satellite Beam Tracking Method Based on Carrier Detection and BP Neural Network Correction *Chongsen Chen, Xin Yang, Jianying Li, Xin Sui* Northwestern Polytechnical University	8447
SS20-1 16:50-17:05	Fast Microwave Near-Field Phase Retrieval Based on Improved Diffraction Neural Networks *Ying Li, Li Deng, Lijie Chen* Beijing University of Posts and Telecommunications	8777
SS20-2 17:05-17:20	Wideband Reconfigurable Bow-Tie Metasurface Design for Focusing *Kaiyue Yin, Li Deng, Lijie Chen* Beijing University of Posts and Telecommunications	8746
SS20-3 17:20-17:35	Dual-frequency Focusing Metasurface Based on Time Reversal in Complex Scattering Environment *Xingyu Liu, Li Deng, Lijie Chen* Beijing University of Posts and Telecommunications	8733
SS20-4 17:35-17:50	Compact UWB Antenna Array covering the X-band for the Radar Application *Dinglun He, Li Deng, Lijie Chen* Beijing University of Posts and Telecommunications	8727

15:50-17:45, Thursday, August 1, 2024
Jade 3 meeting room

Special Session 19: Spotlight on Metasurfaces Technology: Recent Advances and Applications
***Session Chair*:**
Weiren zhu, Shanghai Jiao Tong University, weiren.zhu@sjtu.edu.cn
Zhenfei Li, Northwestern Polytechnical University, zhenfei_li@nwpu.edu.cn

Special Session 21: The applications of digital technologies in economic society
***Session Chair*:**
Fan Zhang, School of Economics and Finance, Xi'an Jiaotong University
Xue Li, International Business School, Shaanxi Normal University
Chen Wu, School of Economics, Xi'an University of Finance and Economics

Paper Information

SS19-1 15:50-16:10	Terahertz Full-Space Metasurface with Independent Amplitude-Phase Control based on FSS ***(Invited Talk)*** *Xin Zhang, Chiben Zhang* Aerospace Technology System Simulation Technology Beijing Corporation Ltd	8533
SS19-2 16:10-16:30	Broadband Omnidirectional Abnormal Behavior of Ultralow Loss Visible Spectrum Metamaterials ***(Invited Talk)*** *Xianfeng Wu, Jing Zhao, Xiaopeng Zhao* Northwestern Polytechnical University	8506
SS19-3 16:30-16:45	Arbitrary Polarization Conversion And Phase Control Using Full-Parameter AA-Phase Metasurface *Tong Liu, Yanzhao Wang, Weike Feng, Chaohui Wang, Fan Zhang, Zhengjie Wang, Yuqiong Zhang, Hui Wang, He-Xiu Xu* Air force Engineering University	8622
SS19-4 16:45-17:00	Broadband Extreme Scattering Reduction In A Graphene-Based Transparent And Flexible Metasurface *Haoyang Shi, Weiren Zhu* Shanghai Jiao Tong University	8502
SS19-5 17:00-17:15	Mode Switchable Vortex Beam Generation Using Annular Traveling-Wave Fed Antenna Array *Luyi Wang, Hongyu Shi* Xian Jiaotong University	8500
SS21-1 17:15-17:30	Research On The Influencing Factors Of The Spread Of Posts In The Field Of Climate Change - Take Sina Weibo As An Example *Xue Li, Yizhuo Li, Yande Wu, Chen Wu, Juan Shi, Ying'an Cui* Shaanxi Normal University	8764
SS21-2 17:30-17:45	Research of Sampling Method For Cybercrime Black Industry Chain *Yingan Cui, Xue Li, Yande Wu* Xian University Of Technology	8651

15:50-17:45, Thursday, August 1, 2024 Jade 4 meeting room		
Special Session 22: metasurface antenna and its application ***Session Chair*:** **Li Sijia, Air Force Engineering University, lsj051@126.com** **Luo Zhangjie, Southeast University, zjluogood@seu.edu.cn** **Jia Yongtao, Xidian University, jiayongtao@xidian.edu.cn**		
Paper Information		
SS22-1 15:50-16:10	Optically-controlled Metasurface for Hybrid Wireless Communications ***(Invited Talk)*** *Xin Ge Zhang, Ya Lun Sun, Wei Xiang Jiang* Southeast University	8668
SS22-2 16:10-16:30	Breaking the Entanglement of Multiple Harmonics Using A Space-Time-Coding Metasurface ***(Invited Talk)*** *Zhangjie Luo* Southeast University	8557
SS22-3 16:30-16:45	An Ultralow-Profile Folded Transmitarray Antenna with Low RCS Based on Metasurface and Rasorber *Zhengjie Wang, Yanzhao Wang, Chao Tian, Jiangang Liang, Weike Feng, Chaohui Wang, Tong Liu, Fan Zhang, He-Xiu Xu* Air force Engineering University	8784
SS22-4 16:45-17:00	A Low-Profile Wideband Circularly Polarized Metasurface-based Filtering Antenna *Xia Zhang, Guangshang Cheng, Lixia Yang, Yingsong Li, Zhixiang Huang* Anhui University	8711
SS22-5 17:00-17:15	A Dual-Band Dual-Circularly Polarized Folded Transmitarray Using Dual Metasurfaces *Hui Wang, Yuqiong Zhang, Yanzhao Wang, Zhengjie Wang, Tong Liu, Fan Zhang, Chaohui Wang, He-Xiu Xu, Chao Tian* Air force Engineering University	8672
SS22-6 17:15-17:30	Low-scattering Two-dimensional antenna array based on Zero-backtracking Method *Yukang Lu, Jiaming Sun, Jiandong Zhao, Xiaochuan Gao, Zhuohuang Cao, Yuejun Zheng* College of Electronic Science and Technology, National University of Defense Technology Changsha China	8618
SS22-7 17:30-17:45	A Low-power 1-Bit Wideband Reflection-Type Phase Shifter for Reconfigurable Metasurface *Xinyu Cai, Mengyao Zhao, Zhangjie Luo* Southeast University	8548

15:50-17:40, Thursday, August 1, 2024 Jade 5 meeting room		
Special Session 24: Reconfigurable and multifunctional metasurfaces and their antenna applications ***Session Chair*:** **Ke Chen, Nanjing University, ke.chen@nju.edu.cn** **Jia Yongtao, Xidian University, jiayongtao@xidian.edu.cn** **Session 22: metasurface antenna and its application**		
Paper Information		
SS24-1 15:50-16:10	Multibeam Metasurface Antenna Enabled by Orbital Angular Momentum Demultiplexing Feeding ***(Invited Talk)*** *Hongyu Shi, Luyi Wang* Xi'an Jiaotong University	8499
SS24-2 16:10-16:25	A Polarization-Multiplexing Metasurface Logic Operator *Qiuyu Zheng, Kai Qu, Ke Chen, Junming Zhao, Tian Jiang, Yijun Feng* Nanjing University	8723
SS24-3 16:25-16:40	Reconfigurable Absorptive-Polarization-Converting Metasurface for Dynamic Wavefront Control *Jiahao Wang, Ke Chen, Shaojie Wang, Junming Zhao, Yijun Feng* Nanjing University	8707
SS24-4 16:40-16:55	Graphene-enabled tunable and multifunctional metasurface for broadband diversity manipulation of terahertz wave *Yin Zhang, Wenjing Zhu, Wanghui Zhang* School of Information Engineering, Nanjing University of Finance and Economics	8701
SS24-5 16:55-17:10	Design of Reconfigurable Frequency Selective Rasorber with Liquid Metal *Peng Geng, Yongtao Jia, Ying Liu* National Key Laboratory of Radar Detection and Sensing, Xidian University	8522
SS24-6 17:10-17:25	Transmissive Reconfigurable Metasurface for Near-field Focusing in C-Band *Jingchen Yang, Yueyi Yuan, Yuxiang Wang, Kuang Zhang* Harbin Institute of Technology	8510
SS22-8 17:25-17:40	A Dual-polarization Amplitude and Phase Modulated Active Metasurface *Ziming Wei, Xiongbin Wu, Daolin Fu, Wei Xiong, Hong Bie, Yong Mao, Yongjin Zhou* Shanghai University	8717

08:30-10:10, Friday, August 2, 2024 Jade 1 meeting room		
Special Session 23: Discussion of advanced numerical techniques and its applications on microwave circuits, radiation components, optical devices and other integrated design ***Session Chair*:** **Zhixiang Huang, Anhui University, zxhuang@ahu.edu.cn** **Naixing Feng, Anhui University, fengnaixing@ahu.edu.cn** **Yuxian Zhang, Anhui University, yxzhang@ahu.edu.cn**		
Paper Information		
SS23-1 08:30-8:50	Efficient Full-wave Finite Element EM Simulations for Real-life Signal Integrity Applications ***(Invited Talk)*** *Wei Wang, Peng Zhao, Kanglong Zhang, Gaofeng Wang* Hangzhou Dianzi University	8795
SS23-2 08:50-09:10	Far-Field Wireless Power Transfer System Enabled by Electrically Small Huygens Dipole Antennas for Battery-Free Internet-of-Things Applications ***(Invited Talk)*** *Wei Lin* The Hong Kong Polytechnic University	8642
SS23-3 09:10-09:25	Design of An Ultra-Wideband Antenna Considered Multiple Input Multiple Output Function *Zhao Linfei, Zheng Hongxing* Hebei University of Technology	8825
SS23-4 09:25-09:40	Efficient Gas Breakdown Analysis Method for Transient Physical Models Based on Implicit Differencing *Xi Shen, Haoran Qin, Tiancheng Zhang, Huaguang Bao, Dazhi Ding* Department of Integrated Circuit Engineering Nanjing University of Science and Technology	8754
SS23-5 09:40-09:55	A Compact Wideband SIW Horn Antenna for Applications in X and Ku Bands *Shirui Chen, Yilin Si, Huiqing Zhai, Cheng Zhu, Nan Wang* School of Electronic Engineering, Xidian University	8729
SS23-6 09:55-10:10	Phase spectrum prediction and structure design of metasurface based on attention mechanism and deep neural network *Yin Zhang, Jun Yu* School of Information Engineering, Nanjing University of Finance and Economics	8700
Coffee Break		

08:30-10:10, Friday, August 2, 2024 Jade 2 meeting room		
Special Session 25: Microwave-induced Plasma and its Application ***Session Chair*:** **Yang Yang, Sichuan University, yyang@scu.edu.cn** **Zhu Huacheng, Sichuan University, zhuhuacheng@126.com**		
Paper Information		
SS25-1 08:30-08:50	Microwave Plasma Technology and Its Applications in Semiconductor Manufacturing ***(Invited Talk)*** *Yang Yang* College of Electronic Information, Sichuan University	8450
SS25-2 08:50-09:10	Modelling and design of microwave plasma sources for electronic applications ***(Invited Talk)*** *Wencong Zhang, Yong Yang, Dongxue Han, Renyu Peng, Jialiang Yang Jiangqi Yu* Guiyang University	8422
SS25-3 09:10-09:25	Efficient microwave plasma torch based on asymmetric propagation *Jing Zhang, Huacheng Zhu* College of Electronics and Information Engineering, Sichuan University	8579
SS25-4 09:25-09:40	Multi-physics simulation of hydrogen electron cyclotron resonance microwave plasma vapor deposition *Jiahui Han, Huacheng Zhu, Yang Yang* School of Electronic Information Sichuan University	8658
SS25-5 09:40-09:55	Design and investigation of a large area microwave plasma device *Qiulin Wang, Huacheng Zhu* Sichuan University	8527
SS25-6 09:55-10:10	Compact Surface Wave Plasma Electrodeless Lamps Based on Coaxial Structure *Yuqing Huang, Huacheng Zhu, Yang Yang* Sichuan University	8497
Coffee Break		

08:30-10:10, Friday, August 2, 2024 Jade 3 meeting room		
Special Session 27: Planar compact antenna and high-density array ***Session Chair*:** **Mei Li, Chongqing University, li.mei@cqu.edu.cn** **Neng-Wu Liu, Xidian University, nwliu@xidian.edu.cn** **Jianxing Li, Xi'an Jiaotong University, jianxingli.china@xjtu.edu.cn** **Special Session 33: Recent Advancements in Artistic Antennas and Metasurface-Based Antennas** ***Session Chair*:** **Hailiang Zhu, Northwest Polytechnical University** **Jianxun Su, Communication University of China** **Kwok L. Chung, Huizhou University**		
Paper Information		
SS27-1 08:30-08:50	Design of a Compact Low-Profile Wideband Metasurface Antenna ***(Invited Talk)*** *Wei Zhu, Mei Li, Tang Ming-Chun* Chongqing University	8623
SS27-2 08:50-09:10	Design Principle of Multi-Mode Antennas and Their Application ***(Invited Talk)*** *Neng-Wu Liu* Xidian University	8513
SS27-3 09:10-09:25	An Evanescent Wave Narrow-Band Diplex Filtenna Based on All-Metal Design *Wei Zhou, Da Yi, Ming-Chun Tang* Chongqing university	8614
SS27-4 09:25-09:40	Design Approach of The Wideband Power Divider *Ruixi Yang, Shixi Huang, Mingrui Li, Nengwu Liu* Xidian University	8562
SS33-1 09:40-09:55	A Dual-Band LiShu Guo-Shaped Patch Antenna for 5G/B5G Wireless Communications *Caiying Li, Kwok L. Chung, Guoming Lai, Shiquan Wang* Huizhou University	8396
SS33-2 09:55-10:10	A Novel DM-RPA-Based Strain Sensor for High-Sensitivity 2-Dimensionsal Strain Monitoring *Lingling WANG, Kwok L. CHUNG, Ping SUN* Weifang Univiersity	8856
Coffee Break		

08:30-10:05, Friday, August 2, 2024 Jade 4 meeting room		
Special Session 28: Microwave and Terahertz Metasurface-based devices: Recent Advances and Applications ***Session Chair*:** **Yongzhi Cheng, Wuhan University of Science and Technology, chengyz@wust.edu.cn** **Song Wu, Hubei University of Technology, 20191049@hbut.edu.cn** **Special Session 25: Microwave-induced Plasma and its Application** ***Organizer*:** **Yang Yang, Sichuan University, yyang@scu.edu.cn** **Zhu Huacheng, Sichuan University, zhuhuacheng@126.com**		
Paper Information		
SS28-1 08:30-08:50	Low Radar Cross-Section Metasurface Antenna with High Spatial Utilization ***(Invited Talk)*** *Jie Yang, Wenyu Hao, Xiao Ji* Huazhong University of Science and Technology	8821
SS25-7 08:50-09:05	Design of Microwave Plasma Sources Based on Gradient Index Metamaterials *Fengming Yang, Huacheng Zhu, Yang Yang* Chengdu University of Technology	8461
SS28-2 09:05-09:20	Graphene-Based Metasurface for Full-space Terahertz Wave Manipulation *Liu Cao, Yujie Liu, Xiaojian Fu* Southeast University	8702
SS28-3 09:20-09:35	A Graphical aid of the Smith Chart to Anglyze the Linear to Circular Polarization Converter Based on Metasurfaces *Geng Wang, Yihang Zhang, Yangsen Hu, Jing Xia, Xiao Ji, Song Wu* Hubei University of Technology	8657
SS28-4 09:35-09:50	Metasurface-based Polarization Converter Using Smith Chart Analysis *Yihang Zhang, Yangsen Hu, Zhao Liu, Wanwan Jin, Xiao Ji, Song Wu* Hubei University of Technology	8620
SS28-5 09:50-10:05	Design of a Ku-band ESS with High Shielding Effectiveness *Dong Wang, YongZhi Cheng* wuhan university of science and technology	8462
Coffee Break		

08:30-10:10, Friday, August 2, 2024
Jade 5 meeting room

Special Session 31: Frontiers in the areas of 6G and next-generation communication technology
***Session Chair*:**
Haiyang Ding, National University of Defense Technology, dinghy2003@nudt.edu.cn
Haipeng Li, National University of Defense Technology, lihaipeng@nudt.edu.cn

Special Session 34: RF and microwave metamaterials for wireless communications
***Session Chair*:**
Prof. Xiaojun Huang, Xi'an University of Science and Technology, Email:hxj@xust.edu.cn
Dr. Wang Yao, Xi'an University of Science and Technology, Email:yaowang@xust.edu.cn
Prof. Helin Yang, Central China Normal University, Email: emyang@mail.ccnu.edu.cn

Paper Information

SS31-1 08:30-08:50	Improving Antenna Isolation for Bistatic In-band Full-duplex Base Station Application with Graphene and DGS ***(Invited Talk)*** *Xiaosheng Zhang, Yuke Guo, Luyu Zhao* Xidian University	8788
SS31-2 08:50-09:10	Metasurfaces for Backscatter Communication ***(Invited Talk)*** *Haipeng Li* National University of Defense Technology	8742
SS34-1 09:10-09:25	A 2.5V 200mA CMOS Low-Dropout Voltage Regulator with Robust PVT *Wangting Bao, Jiang Luo, Yongjian Jin, Yi Shen, Shuhuan Fu, Yuqian Pu, Hongchang Shen* Hangzhou Dianzi University	8857
SS34-2 09:25-09:40	*W*-band CMOS ×8 Frequency Multiplier With High Harmonic Rejection *Yizhao Li, Jiang Luo, Yi Shen, Xiang Wang, Jun Liu, Hongchang Shen* Hangzhou Dianzi University	8854
SS34-3 09:40-09:55	Incident Power Density Evaluation Method Base on Metalens and R-U-Net *Miao Cao, Zicheng Liu, Ruijie Xiao* Northwestern Polytechnical University	8710
SS34-4 09:55-10:10	Design and Analysis of Independently Modulatable Dual-Frequency Energy-Selective Surface *Ji Yuhao, Huang Xiaojun* College of Communication and Information Engineering Xi'an University of Science and Technology	8616

Coffee Break

10:25-11:55, Friday, August 2, 2024 Jade 1 meeting room		
Special Session 23: Discussion of advanced numerical techniques and its applications on microwave circuits, radiation components, optical devices and other integrated design ***Session Chair*** **Zhixiang Huang, Anhui University, zxhuang@ahu.edu.cn** **Naixing Feng, Anhui University, fengnaixing@ahu.edu.cn** **Yuxian Zhang, Anhui University, yxzhang@ahu.edu.cn**		
Paper Information		
SS23-1 10:25-10:40	Efficient Microwave Rectifiers with Wide Input Power Dynamic Range *Ou Jun-Hui* South China University of Technology	8659
SS23-2 10:40-10:55	FEM Simulation of Hybrid-2DLMs-based Plasma Array Structure Used in Confrontation with High-Power Microwave *Chunzhi Dong, Naixing Feng, Xuesong Deng, Lixia Yang, Zhixiang Huang* Anhui University	8521
SS23-3 10:55-11:10	A 205 GHz Fully integrated Power Amplifier in 40-nm CMOS at Near-f_{max} Frequencies *yiheng song, fuchang chen, ruibing dong, Yi Wang* South China University of Technology	8509
SS23-4 11:10-11:25	A Structured Meshing Approach for FDTD Method *Bo Zhong, Jian Feng, Ming Fang, Zhixiang Huang* Anhui University	8350
SS23-5 11:25-11:40	Modeling of Resonant Radiation in Rod-like Structures *Nengcheng Deng, Yunhua Zhang, Siyuan He, Rumeng Chen, Wei Gong* Wuhan University	8519
SS23-6 11:40-11:55	High-Gain Difference Beam Planar Antenna Array for Millimeter-Wave Applications *Zhiwei Chen, Quan Sun, Daiweixuan Yang, Tongyu Ding, Ying Huang* Jimei University	8511

10:25-12:00, Friday, August 2, 2024
Jade 2 meeting room

Special Session 30: Emerging radiation and scattering manipulation technologies for antennas and arrays
***Session Chair*:**
Ting Shi, Southwest Jiaotong University, tingshi@swjtu.edu.cn
Junbing Duan, Southwest Jiaotong University, duanjunbing@swjtu.edu.cn
Zhong-Xun Liu, Xidian University, liuzhongxun@xidian.edu.cn

Special Session 23: Discussion of advanced numerical techniques and its applications on microwave circuits, radiation components, optical devices and other integrated design
Organizer:
Zhixiang Huang, Anhui University, zxhuang@ahu.edu.cn
Naixing Feng, Anhui University, fengnaixing@ahu.edu.cn
Yuxian Zhang, Anhui University, yxzhang@ahu.edu.cn

Paper Information

SS30-1 10:25-10:45	Design of A High Gain, Compact Patch Antenna with a Tilted Radiation Pattern ***(Invited Talk)*** *Chen Xiaoming, Wu Zhentian, Fang Xin* Anhui University	8671
SS30-2 10:45-11:00	A Transparent Metadevice for Radar-Infrared Compatible Stealth using Dual-Sized Thin ITO meta-films *Yanzhao Wang, Huiling Luo, Huanhuan Gao, Kai-yue Liu, He-Xiu Xu* Air force Engineering University	8553
SS30-3 11:00-11:15	Wide-Angle Scanning and Backward Scattering-Reduced Phased Array Composed of Dual Anti-Reflection-Phase Elements *Jia-Li Zhong, You-Feng Cheng, Ting Shi, Xin-Long Bian, Cheng Liao* Southwest Jiaotong University	8503
SS30-4 11:15-11:30	An Effective Control Strategy for Propagation Constants of Stub-Loaded Endfire Leaky-Wave Antenna *Junbing Duan, Lei Zhu, Cheng Liao* Southwest Jiaotong University	8491
SS23-7 11:30-11:45	A Collaborative Optimization Methodology for 2.5-D Advanced Package Considering Thermal and Power Integrity *Peng Zhang, Da-Wei Wang, Qiqiang Liu, Wen-Sheng Zhao* Hangzhou Dianzi University	8549
OS5-6 11:45-12:00	Cross-Language Code Development with Generative AI: A Source-to-Source Translation Perspective *Laxmisha Rai, Smriti Khatiwada, Chunrao Deng, Fasheng Liu* Shandong University of Science and Technology	8767

10:25-12:00, Friday, August 2, 2024
Jade 3 meeting room

Special Session 32: Spatiotemporal modulated Electromagnetic devices and applications
***Session Chair*:**
Xiaoyi Wang, Tongji University
XuDong Bai, Northwestern Polytechnical University
Jingfeng Chen, Shanghai Jiaotong University

Special Session 23: Discussion of advanced numerical techniques and its applications on microwave circuits, radiation components, optical devices and other integrated design
Organizer:
Zhixiang Huang, Anhui University, zxhuang@ahu.edu.cn
Naixing Feng, Anhui University, fengnaixing@ahu.edu.cn
Yuxian Zhang, Anhui University, yxzhang@ahu.edu.cn

Paper Information

SS32-1 10:25-10:45	Time-Modulated Spread-Spectrum Metasurfaces for Wireless Applications ***(Invited Talk)*** *Xiaoyi Wang* Tongji University	8537
SS32-2 10:45-11:00	Intra Beam Harmonic Suppression of 1-bit Space-time-coding Metasurfaces for Wideband Communication *TONG WU, Qingqing Wu, Zhenji Liu, Yu Xia, Ronghong Jin, Jingfeng Chen* Shanghai JiaoTong University	8695
SS32-3 11:00-11:15	Ultra-Wideband Transmissive Programmable Metasurface for Dynamic Electromagnetic Modulation *Longpan Wang, Yuhua Chen, Xudong Bai, Mengmeng Sun, Zhenyuan Li, Zhuoran Zhang* Northwestern Polytechnical University	8615
SS32-4 11:15-11:30	A Decoupling Method Based on Time-modulated Array with Harmonic Characteristic Analysis *Yu Xia, Anjie Cao, Xiaonan Zhao, Tong Wu, Ronghong Jin, Jingfeng Chen* Shanghai Jiao Tong University	8529
SS23-8 11:30-11:45	A Cylindrical Dielectric Resonator Antenna With Differential Beam *Yang Lanlan, Li Daotong, Sui Dongyi, Liu Xinyao, Liu Ying, Jiang Qi* Chongqing University	8691
SS23-9 11:45-12:00	Large-Scale Parallel Non-Conformal Complete Domain Decomposition for FE-BI-MLFMA *Jia-Tong Jing, Ming-Lin Yang, Wei-Jia He, Xin-Qing Sheng* Beijing Institute of Technology	8556

10:25-11:55, Friday, August 2, 2024 Jade 4 meeting room		
Special Session 29: Multiphysics Simulation Method and Its Applications ***Session Chair*:** **Guangshang Cheng, Anhui University, gscheng89@ahu.edu.cn** **Huanhuan Zhang, Xidian University, hhzhang@xidian.edu.cn**		
Paper Information		
SS29-1 10:25-10:40	A Fast Analysis Method for Electromagnetic Scattering in Broad Frequency Band and Angular Domains of Periodic Arrays *Wei Zhou, Guangshang Cheng* Anhui University	8718
SS29-2 10:40-10:55	Signal Integrity Analysis of Microwave Circuits Based on FETD Method *Heng Fei Ma, Zheng Liang Lv, Qing Nan Fan, Hang Liu, Zheng Liang Jia, Huan Huan Zhang* Xidian University	8676
SS29-3 10:55-11:10	A Compact Improved Performance Circularly Polarized Rectenna With Harmonic Suppression *Chen Chen, Rasool Nouman, Jinwei Gao, Lin Wang, Yuan Yang* China West Normal University	8608
SS29-4 11:10-11:25	Simulation of Microfluidic Microwave Sensor Based on Taiji Resonator *Yun Ma, Chenxi Zhao, Deshen Hou, Chaojun Chen, Quanlin Guo, Dezhi Gou* China West Normal University	8573
SS29-5 11:25-11:40	Study on A Packed Bed Dielectric Barrier Discharge Plasma Reactor *ChangJiang Liao, Yuan Yang, Lin Wang* China West Normal University	8547
SS29-6 11:40-11:55	Absorbing Boundary Condition for the Hexagonal-Mesh-Based FDTD *Donghua Zhou, Bo Zhong, Jian Feng, Ming Fang* Anhui University	8468

10:25-12:20, Friday, August 2, 2024 Jade 5 meeting room		
Special Session 35: Advances in mmWave Lens Antennas, Conformal Array for Modern Wirless Communications ***Session Chair*:** **Min Wang, Chongqing University of Posts and Telecommunications, wangm@cqupt.edu.cn** **Huanhuan Yang, Air Force Engineering University, jianye8901@126.com** **Wei Luo, Chongqing University of Posts and Telecommunications, luowei1@cqupt.edu.cn** **Special Session 34: RF and microwave metamaterials for wireless communications** ***Organizers*:** **Prof. Xiaojun Huang, Xi'an University of Science and Technology, Email:hxj@xust.edu.cn** **Dr. Wang Yao, Xi'an University of Science and Technology, Email:yaowang@xust.edu.cn** **Prof. Helin Yang, Central China Normal University, Email: emyang@mail.ccnu.edu.cn**		
Paper Information		
SS35-1 10:25-10:45	A Circularly Polarized Filtering Dielectric Resonator Antenna based on SlW Cavity ***(Invited Talk)*** *Xiaozhen Liu, Wei Luo, Meilin Liu, Teng Xiong* Chongqing University of Posts and Telecommunications	8693
SS35-2 10:45-11:05	A Broadband 1-Bit Reconfigurable Huygens Element for Transmitarray in mmW Applications ***(Invited Talk)*** *Min Wang, Haibin Xu, Yi Ren, Shi Ting* Chongqing University of Posts and Telecommunications	8625
SS34-1 11:05-11:20	Ultra-Wideband Absorber Combining Magnetic Material and Metasurface *Gao Xinjie, Huang Xiaojun, Xu Hexiu* Xian University of Science and Technology	8591
SS34-2 11:20-11:35	A Highly Selective Frequency Selective Rasorber With Helical Structure *Mao Minghao, Huang Xiaojun* Xian University of Science and Technology	8587
SS34-3 11:35-11:50	The influence of antenna frequency and roadway cross-sectional area on radio wave propagation in mine roadway *Wang Yiwen, Huang Xiaojun* Xian University of Science and Technology	8581
SS34-4 11:50-12:05	An active metasurface for beam manipulation *Xue Qi, Huang Xiaojun* Xian University of Science and Technology	8580
SS34-5 12:05-12:20	A Broadband Low-RCS Co-polarized Antenna Array Based on Metasurface *Ying Tian, Wang Yao, Huang Xiaojun* Xi'an University of Science and Technology	8538

Poster Session I

13:30-15:30, Wednesday, July 31, 2024 Session chair: Anxue Zhang	
Closed-form Equation for Passive Intermodulation of Microstrip Line due to Resistivity Nonlinearity *Xiaolong Zhao, yongning He, Anxue Zhang* Xian Jiaotong University	8847
A point-interval prediction method for photovoltaic power generation considering weather types: a novel hybrid deep learning model *Yuzhuo Dong, Wentao Ma, Jiahui Dai, Lihong Qiu, Peng Guo* Xi'an University of Technology	8830
Deep unfolding based microwave imaging with spin-decoupled programmable metasurface *Fan Zhang, Weike Feng, Chaohui Wang, Tong Liu, Tao Pu, Huanhuan Gao, Zhengjie Wang, He-Xiu Xu* Air Force Engineering University	8799
A Real-Valued Off-Grid DOA Estimator Via Sparse Bayesian Learning Exploiting Wishart prior *Ninghui Li, Xiaokuan Zhang, Weike Feng, Fan Lv, Zhaolong Wang, Binfeng Zong* Air Force Engineering University	8490
An Ultralow-Profile Folded Transmitarray Antenna with Low RCS Based on Metasurface and Rasorber *Zhengjie Wang, Yanzhao Wang, Chao Tian, Jiangang Liang, Weike Feng, Chaohui Wang, Tong Liu, Fan Zhang, He-Xiu Xu* Air force Engineering University	8784
A High Gain Omnidirectional Dipole Array Antenna for WiFi-6E *Wenzhe Gu, Botao Feng, Yiyuan Luo, Xuexin Zhu, Yun Lu* Huizhou University	8771
Research On The Influencing Factors Of The Spread Of Posts In The Field Of Climate Change - Take Sina Weibo As An Example *Xue Li, Yizhuo Li, Yande Wu, Chen Wu, Juan Shi, Ying'an Cui* Shaanxi Normal University	8764
Microwave Polarization Detection System Based on Spoof Localized Surface Plasmons *Fei Ma, Yumeng Yang, Bo Wang, Hongsheng Chen, Fei Gao* Zhejiang University	8743
The Analysis of Structures of a kind of Equilibrium Networks in a Cournot Oligopoly *Chen Wu, Fan Zhang* Xi an University of Finance and Economics	8735
A Compact Wideband SIW Horn Antenna for Applications in X and Ku Bands *Shirui Chen, Yilin Si, Huiqing Zhai, Cheng Zhu, Nan Wang* School of Electronic Engineering, Xidian University	8729
Design and Implementation of An Intelligent Automated System for Industrial Lamp Cup Inspection and Grading based on Machine Vision *Jiaji Zhang, Dongxiong Li, Chengjie Wei, Xiaoye Wang, Gang Peng* Huizhou University	8726
A Polarization-Multiplexing Metasurface Logic Operator *Qiuyu Zheng, Kai Qu, Ke Chen, Junming Zhao, Tian Jiang, Yijun Feng* Nanjing University	8723

Multi-Scale SE-SK Network for Human Falling Detection using IR-UWB Radars *Qinhuan Yang, Xiaoye Wang, Xinyue Kang, Yulan Zhang, Jianchao Zheng* Huizhou University	8716
A Low-Profile Wideband Circularly Polarized Metasurface-based Filtering Antenna *Xia Zhang, Guangshang Cheng, Lixia Yang, Yingsong Li, Zhixiang Huang* Anhui University	8711
Incident Power Density Evaluation Method Base on Metalens and R-U-Net *Miao Cao, Zicheng Liu, Ruijie Xiao* Northwestern Polytechnical University	8710
Ultra-Wideband Microstrip Patch Antenna with the Profile of 1.6 mm Covering 3.14~5.51 GHz for 5G Mobile Terminal Applications *Heng Zhang, Le Chang, Zhang Anxue* Xi'an Jiaotong University	8709
Intra Beam Harmonic Suppression of 1-bit Space-time-coding Metasurfaces for Wideband Communication *TONG WU, Qingqing Wu, Zhenji Liu, Yu Xia, Ronghong Jin, Jingfeng Chen* Shanghai JiaoTong University	8695
A Cylindrical Dielectric Resonator Antenna With Differential Beam *Yang Lanlan, Li Daotong, Sui Dongyi, Liu Xinyao, Liu Ying, Jiang Qi* Chongqing University	8691
YOLO-LRHG: Long Range Hand Gesture detection using YOLO with attention mechanism *Yu-Yu Yang, Hsu-Han Yang, Jung-Kuei Yang* Dong Hwa University	8689
Ground-based Radio Navigation Base Station Deployment Method based on Improved Multi-Objective Particle Swarm Optimization *Jiawei Liu, Chengyan He, Zhaolin Zhang, Chuang Han, Ling Wang, Mingliang Tao* Northwestern Polytechnical University	8688
Characterizing the Mutual Terrain Scattered Interference in Spaceborne SAR Images under Different Terrains *Yu Xin, Zexi Ren, Weike Li, Huanyu Sun, Mingliang Tao* Beijing Institute of Remote Sensing Information	8674
Characterization and Analysis of Mutual Terrain-Scattered Interference Based on Different Jamming Signal Waveforms *Zexi Ren, Zhaolin Zhang, Mingliang Tao, Zixun Guo, Jia Su* Northwestern Polytechnical University Xi'an, China	8673
A Graphical aid of the Smith Chart to Anglyze the Linear to Circular Polarization Converter Based on Metasurfaces *Geng Wang, Yihang Zhang, Yangsen Hu, Jing Xia, Xiao Ji, Song Wu* Hubei University of Technology	8657
Arbitrary Polarization Conversion And Phase Control Using Full- Parameter AA-Phase Metasurface *Tong Liu, Yanzhao Wang, Weike Feng, Chaohui Wang, Fan Zhang, Zhengjie Wang, Yuqiong Zhang, Hui Wang, He-Xiu Xu* Air force Engineering University	8622
An Evanescent Wave Narrow-Band Diplex Filtenna Based on All-Metal Design *Wei Zhou, Da Yi, Ming-Chun Tang* Chongqing university	8614
Randomized-enhanced Magnitude Channel Pruning for Radar Jamming Detection *Xun Ni, Hao Wu, Xuan Zhu, Zhao peng Shi* Huazhong University of Science and Technology	8582

Radar HRRP Estimation Based on Deep Unfolding Networks under Interrupted Sampling Repeater Jamming *Tao Pu, Weike Feng, Pengcheng Wan, Xiaowei Hu, Yiduo Guo, Xixi Chen* Air Force Engineering University	8572
Inverse Design Based on Time Reversal Differentiation of FDTD *Yihao Li, Heng Zhong, Ke Xu, Ming Fang* An hui University	8563
A Transparent Metadevice for Radar-Infrared Compatible Stealth using Dual-Sized Thin ITO meta-films *Yanzhao Wang, Huiling Luo, Huanhuan Gao, Kai-yue Liu, He-Xiu Xu* Air force Engineering University	8553
Ultra-wideband multi-characteristic integrated ultra-wideband frequency selective rasorber *Zhi Chen, Xingshuo Cui* Air Force Engineering University	8555
A Low-power 1-Bit Wideband Reflection-Type Phase Shifter for Reconfigurable Metasurface *Xinyu Cai, Mengyao Zhao, Zhangjie Luo* Southeast University	8548
Widely Linear Beamforming via Interpolated Difference-Sum Co-Array in Satellite Communications *Zhen Meng, Feng Shen, Fuqiang Li* China University of Mining and Technology	8531
FEM Simulation of Hybrid-2DLMs-based Plasma Array Structure Used in Confrontation with High-Power Microwave *Chunzhi Dong, Naixing Feng, Xuesong Deng, Lixia Yang, Zhixiang Huang* Anhui University	8521
An Energy Efficient CMA Equalizer based on Approximate Computing *Junjie Zhou, Ke Chen* Nanjing University of Aeronautics and Astronautics	8486
Exact Observation Based Phase Preservation Bistatic SAR Sparse Imaging: Initial Result *Zhefan Jin, Jingjing Zhang, Yufan Song, Hui Bi* Nanjing University of Aeronautics and Astronautics	8476
Digital Twin System for Reflector Antenna Structure Performance Evaluation Based on Surrogate Model *Hanwei Cui, Binbin Xiang, Wei Wang, Peiyuan Lian, Jianping Zhou, Shangmin Lin* Xinjiang University	8440
Design and Optimization of Quad-Band Qing-Shaped Patch Antenna Using CMA-Surrogate Model *Yingqi Pei, Kwok L. Chung, Caiying Li, Zhipan Wu, Guoming Lai* Huizhou University	8415
Enhanced Symplectic Geometric Mode Decomposition via K-means Clustering for LFM Signal Denoising *Jincheng Ni, Jin Zhao, Xianliang Wu, Ping Wu* Anhui University	8411
A ViT Merged Oriented-Detector with Neuron Attention for Ship Detection in SAR Images *Yiyang Huang, Di Wang, Wentao Huang, Daoxiang An* National University of Defense Technology	8400
A Dual-Band LiShu Guo-Shaped Patch Antenna for 5G/B5G Wireless Communications *Caiying Li, Kwok L. Chung, Guoming Lai, Shiquan Wang* Huizhou University	8396

A High Impedance Grounding Fault Location Method for Transmission Lines Based on Electromagnetic Time Reversal and Harmonics *Fajian Liu, Ping Wang, Junqing Wang, Hongming Tao, Yifan Chen* School of Communication and Information Engineering, Chongqing University of Posts and Telecommunications	8386
An Experimental Analysis of Channel Similarity in the UMa Scenario for 6G FR3 Communications *Ke Chen, Pan Tang, Tao Jiang, Huixin Xu, Gaofeng Nie, Lei Tian, Jianhua Zhang* Beijing University of Posts and Telecommunications	8383
Research on multidimensional reconstruction security billing strategy in cloud native scenarios *Sheng Shuo, Che Kun* Chengfang Financial Information Technology Services Co., Ltd	8379
Low Numerical Dispersion LOD-FDTD Algorithm *JiRui Zhang, JinLong Hu, KaiKun Niu, YingSong Li, ZhiXiang Huang, XianLiang Wu* Anhui University	8817
Optimizing Antenna Design through AI Integration: A Concise Review *Xiaotian Liu, Kwok L. Chung, Wenbiao Li, Ruihong Li, Shuwei Huang, Yingsong Li* Huizhou University	8686

Poster Session II

15:50-17:50, Wednesday, July 31, 2024 Session chair: Yongtao Jia	
Deep Neural Networks for Estimating DOA of Multiple Radio Waves *Shen Qian, Cheng Meng* Kanagawa University	8823
Securing Near-Field MIMO Communications via Dynamic Metasurface Antennas *Jilin Hou, Lixia Yang, Xinyue Hu, Yu Zhang, Jialin Zhou, Zhengang Nie* Anhui University	8745
Joint beam placement and pattern design for beam-hopping HTS system *Zhang Yu, Zhou Wuyang* University of Science and Technology of China	8446
Kernel Affine Projection Algorithms Based on the Robust Mixed-norm Method *Guoliang Li, Ji Zhao, Hongbin Zhang* University of Electronic Science and Technology of China	8827
A Wideband Anti-Jamming Acquisition Algorithm Based on Fast FRFT for LEO Satellite Mobile Communication *Yi Pan, Chaoji Wu, Shujun Mo, Lei Ning* Shenzhen Technology University	8748
Micromotion Gesture Recognition Technology Based on Millimeter-wave Radar *Zhaoqi Li, Dayu Cai, Fei Gao, Zheyi Li, Yingchun Li, Cong Wang, Panpan Tang, Jingchang Nan* Liaoning Technical University	8747
Kernel Adaptive Filtering with Weibull M-transform Maximum Versoria Criterion *Chenchong Bi, Yingsong Li, Liping Li, Nikola Zlatanov* Anhui University	8629
Knowledge Reasoning Based on The Knowledge Graph of Frequency Equipment for System-level Electromagnetic Spectrum Planning *Yuru Zhang, Jia Cao, Xiangyu Hao, Shuai Huang* China Academic of Electronics and Information Technology	8621
Research on Radar Cross Section Measurement Based on Terahertz Radar Near-Field High Resolution Imaging *Ruijun Wang, Sisan He, Haowei Zhang* Air Force Engineering University	8514
Research on Signal Denoising Method Based on Symplectic Geometric Mode Decomposition and Savitzky-Golay Filtering *Xuelong Xu, Jin Zhao, Bo Wu, Xianliang Wu, Jincheng Ni, Ping Wu* Anhui University	8456
Software Defined Radio-Based Electromagnetic Environment Interference Detection *Chang Ge, Zuchao Li, He Gong, Maoyuan Sun, Kun Li, Mengguan Pan* Anhui University	8423
Spatial Spectrum Estimation Direction Finding Algorithm of Uniform Linear Array Based on Virtual Array Transformation and Data Enhancement *Haochuan Chen, Zhinan Chen, Xuemei Chu* Beijing Research Institute of Telemetry	8362
Novel Integrated Ka–Band Amplitude Limiting Low Noise Amplifier Design *Shixiong Deng, Yue Zhang, Weidong Kong, Qiaonan Wang, Biao Zhou, Shubin Chen, Changzheng Gao, Guohui Yang, Kuang Zhang* Hebei Semiconductor Research Institute	8844

Design of Dual-Polarization Shared Aperture Antenna Based on Frequency Selective Surface *Wenhan Zhang, Lu-Yang Ji, Yuhang Yang, Wuyi Huang, Shigang Zhou* Northwestern Polytechnical University	8840
A Planar Dual Circularly Polarized Wide-Angle Scanning Phased Array *Zhe-Jun Zhu, Yu-Hang Yang, Lian-Wei Zhu, Yi-LIn Dong, Shi-gang Zhou* Northwestern Polytechnical University	8832
A Seawater Reconfigurable Antenna Based on 3d Printing Technology *Jing Gao* Liaoning Technical University	8826
Integrated design of X-band dual circularly polarized antenna and filter *Jiamin Zhang, Shigang Zhou, Jianying Li* Northwestern Polytechnical University	8809
Transparent CPW-fed Antenna Array for 5G Communication Applications *Shuo Chen, Maopeng Jin, Xudong Hao, Zhengquan Zu, Zixi Li, Yansheng Li* Qingdao University of Technology	8779
A 170~260GHz On-wafer Probe Based on High Resistivity Silicon *Jingsong Xu, Cheng Guo, Qian Yang, Anxue Zhang* Department of Electronic and Information Engineering Xi'an Jiaotong University	8755
Low Side-lobe High-Mode OAM Beam Generation Technique Based on Concentric Ring Array *Shitao Zhu, Yunlong Lu, Die Li, Yiheng Nian, Caipin Li, Anxue Zhang* School of Information and Communications Engineering, Xian Jiaotong University	8692
Research on FDFD Modeling and Wireless Power Transmission of Near-sea Surface *Xiang Chi, Rong Bao, Jinyi Hui, Jingkuan Mu, Chunliang Liu, Chunjie He* Xian Jiaotong University	8681
A planar wideband quasi-isotropic antenna based on triple current line sources theory *Heng Gui, Zhixi Liang* Sun Yat-Sen University	8633
An Artificial Electromagnetic Metasurface For Special Reflective Reconfigurable Antenna Array *Yitong Cheng, Yuqi Zhang, Liang Zhou, Qingfeng Kong, Yiping Zang, Mengxin Ma, Jie Ma, Peng Li* Xi'an Institute of Electromechanical Information Technology	8596
Center-Fed Dual-band Dual-Sense Wide Axial-Ratio Beamwidth Circularly Polarized Antenna *Wen-Yuan Xie, Zhi-Hong Tu, Wen-She Huang, Xiao-Dao Huang, Zhao-Jiong Wu, Zhi-Yong Wen* Shenzhen-Zhongshan Link Administration Center, Guangdong Provincial Key Laboratory of Tunnel Safety and Emergency Support Technology and Equipment	8561
Radiation Pattern Computation with the Variable Resolution for Reflector Antennas using the CZT *Yang Zhang, Binbin Xiang, Shangmin Lin, Yongqin Zhao, Shike Mo, Wei Wang* School of Mechanical Engineering Xinjiang University	8543
D-plane Cross-polarization Suppression of Microstrip Patch Antennas *Guanglei Song, Qingnan Rong* China Academy of Aerospace Science and Innovation	8539
A RFID Chipless Tag Based on Hybrid Frequency-Polarization Coding *Zilong Chen, Yang Yang, Xiaoxiang He, Shengchuan Xiao* Nanjing University of Aeronautics and Astronautics	8535

A Design of a Broadband Circularly Polarized Antenna Based on LTCC Technology *Mengying Han, Shufeng Sun, Xu Yang* China Academy of Space Technology, Xi'an Branch	8528
Analysis of the Imaging Performance of the Mouth-shape Sparse MIMO Array *Minjia Chai, Qian Chen, Bowen Wu, Songlin Yan, Xinyue Guo, Zhixiang Huang* Anhui University	8526
A Vacuum Sealed Rotary Joint with Low Loss for High Power Microwave Application *Yu Yang, Ping Xie, Bixiao Jiang, Shitao Chen, Yong Liao, Chuan Yu* Institute of Applied Electronics, China Academy of Engineering Physics	8488
Design of Resonant SIW Antenna in UHF Band *Shengchuan Xiao, Xiaoxiang He, Yang Yang, Zilong Chen* Nanjing University of Aeronautics and Astronautics	8457
Active Compensation of Reflector Antenna Structural Deformation Based on Deep BP-Neural Network *Tianxiang Zheng, Binbin Xiang, Shangmin Lin, Wei Wang, Peiyuan Lian, Hanwei Cui* School of Mechanical Engineering, Xinjiang University, Urumqi, China	8441
Neural Network-Based High-Power Microwave Near-Field Reconstruction Method *Haozhe Tian, Hui Deng, Minjie Li, Junbing Liu, Rongqiang Yang* Beihang University	8392
Study on a Dual-Function Thermoelectric Cooler-Thermoelectric Generator System *Rixiong Li, Min Tang, Longfei Li* Shanghai Jiao Tong University	8534
A Novel Window Function for Memristor Model with Short-Term and Long-Term Memory Behavior *Nan Shao, Maged Al-Barashi* School of Aeronautics and Astronautics, Guilin University of Aerospace Technology	8431
A Fine-Grained Clothing Style Image Segmentation Method Based on Deeplab v3+ *Qinyin Gong, Xiaohui Li* College of Fashion and Design of Donghua University	8469
Integrated Method of Deep Learning and Large Language Model in Speech Recognition *Bo Guan, Jin Cao, Xingqi Wang, Zhuoyue Wang, Mingxiu Sui, Zixiang Wang* Virginia Tech	8413
A dual-polarized broadband Fabry-Perot antenna loaded with an energy-selective surface *Yidan Liu, Yi Wang, Qi Wang, Songran Guo* Nanjing University of Aeronautics and Astronautics	8602

Poster Session III

13:30-15:30, Thursday, August 1, 2024 Session chair: Ying Li	
Highly Sensitive Distributed Strain Sensor Based on φ-OTDR with Ultraweak Fiber Bragg Grating *Yunfan Yang, Chunfu Cheng, Wei Fan, Yiwen Ou, Hui Lv, Bo Deng, Tianxin Huang, Zhihong Wu* Hubei University of Technology	8501
Improvement Plan for cyber-security of DCS Control System of Nuclear Power Plants *Qiang Wang, Yuan Xiang, daming Wang* China Nuclear Control System Engineering Co.,Ltd	8643
Scheme of Low Transmitter Sampling Rate for New Generation Railway 5G Wideband Power Amplifiers *Shanghui Xiao, Xiaopeng Zhang, Boyan Zhang, Xiangjie Xia* School of Telecommunication Engineering, Sichuan Railway College	8382
Load Current Feedforward Fuzzy Adaptive PI Control Strategy For Single-phase Dual Active Bridge *Lina Dong, Xueqin Bi, Yuanyuan Fu* Xi an Technological University	8720
Recognition and Classification of Radar Targets Base on Multiple Features of High-Resolution Range Profiles *Yixiao Liu, Tao Li, Zhaolin Zhang, Zixun Guo* Northwestern Polytechnical University	8640
Iterative Equal-scale Defocused Frequency Domain Stitching Phase Retrieval Techniques Based on the Phase Transfer Function *Youkan Peng, Yonggang Zhou* Nanjing University of Aeronautics and Astronautics	8492
A Novel Robust Adaptive Beamforming Algorithm Based on Steering Vector Estimation and Covariance Matrix Reconstruction *Rao Mingzhao, Jiang Yuan, Zhao Lei, Wang Lei, Sun Xinghua* Sun Yat-Sen University	8796
An Iterative Active Constellation Expansion Method for PAPR Reduction in DZT-OTFS System *Yuhua Chen, Yuan Jiang, Lei Zhao* Sun Yat-sen University	8567
A Novelty Signal Reconstruction Method of Millimeter Wave Fuze Based on Compressed Sensing *Chubao Li, Biwen Jiang, Shenghua Fu, Jiuxing Yuan, Jinggang Yang* Xi'an Institute of Electromechanical Information Technology	8853
Outlier Detection Based On Heuristic Clustering Algorithm *Xue Mingyang, Wen Ruihu, Li Jiabao* Xi an Institute of Electromechanical Information Technology	8818
Research on a Fiber Optic Magnetic Field Sensor Based on Fuze Platform *Ce Bian, Panxiong Yang, Haibin Wang, Ruihu Wen, Ming Li, Chong Song, Kaili Yang, Yongqin Huang* Xi'an Institute of Electromechanical Information Technology	8705
Overview of Anti-chaff Interference of Radio Fuze *Fuqiang Cao, Dapeng Wang, Liping Xu, Ruihu Wen, Xiyu Wang, Shuai Wen, Yue Ma, Zhoupeng Wei* Xian Institute of Electromechanical Information Technology	8683

A Low-Profile Wideband Pattern Diversity Antenna with a Nonuniform Metasurface for Radio Fuze *Xiyu Wang, Dapeng Wang, Liping Xu, Ce Lu, Shuai Wen, Fuqiang Cao, Yuecheng Zhang, Zhoupeng Wei* Xi an Institute of Electromechanical Information Technology	8648
Design of Narrow-pulse Laser Transmitter Circuit for High-precision Pulse Laser Proximity Fuze System *Panxiong Yang, Wanggao Hou, Kaili Yang, Yongqin Huang, Ce Bian, Zitong Li* Xi'an Institute of Electromechanical Information Technology	8644
Overview of the Research Status of Laser Imaging Fuze *Zitong Li, Kaili Yang, Ruihu Wen, Wei Chen, Panxiong Yang, Ce Bian, Yongqin Huang, Mingyang Xue* Xi'an Institute of Electromechanical Information Technology	8598
A Fuze-oriented Multi-parameter Energy-type Interference Environment Model *Kaili Yang, Ruihu Wen, Wei Chen, Zitong Li, Panxiong Yang, Ce Bian, Yongqin Huang, Mingyang Xue* Xi'an Institute of Electromechanical Information Technology	8542
Multi-Objective Beam-Pattern Synthesis with Consideration of Mutual Coupling by MOEA/D-IWO-AEP Algorithm *Shutao Fang, Hao Ren, Wei Wang, Xiaofei Wang, Xuan Wang, Ziting Li* Beijing Institute of Space Long March Vehicle	8730
Dual-Radiation Mode Leaky-Wave Antenna with Flat-Topped and End-Fire Beams Based on the Composite Structure *Jianing Zhang, Yunjie Geng, Xianbao Zheng, Jiawei Yang, Xi Li* BeiJing Jiaotong University	8724
Wideband Self-Phased Dipole Antenna With Circular Polarization *Ziting Li, Wei Wang, Hao Ren, Shutao Fang, Chuo Yang, Xiaofei Wang* Beijing Institute of Space Long March Vehicle	8680
A High-gain and Low-sidelobe Directional Radiating Waveguide Slot Antenna *Guodong Liu, Yuheng Tian, Xiaofei Wang, Xiaoning Huo, Shuang Wang, Mengfei Feng* Beijing Institute of Space Long March Vehicle	8679
A Wide-band Wide-beam Metal Vivaldi Antenna *Yuheng Tian, Guodong Liu, Xiaofei Wang, Shuo Yang, Xiaoning Huo, Weiwei Guan* Beijing Institute of Space Long March Vehicle	8678
Design of a Dual-Band Helix Antenna Using Parallel Arms *Hao Ren, Shutao Fang, Ziting Li, Miaomiao Cao, Wei Wang, Xiaofei Wang* Beijing Institute of Space Long March Vehicle	8677
A Lumped Elements Loaded Over-Hundred-Octave Super-Wideband Antenna *Cuiqin Xie, Jing Chang, Yinfeng Xia, Huakun Zhang* Anhui Vocational and Technical College	8421
An Intermodulation Matrix Method for PIM Evaluation of Microstrip Circuit *Xiaolong Zhao, yongning He, Anxue Zhang* Xian Jiaotong University	8589
A Compact Range Quiet Zone Detection Technology for Large Aperture THz Antennas *Qitao Zhang, Lingge Liu, Yu Wang* Institute of Space Radio Technology of Xi'an	8279
A THz Measurement Technique of Large Aperture Antenna based on Compact Range *Qitao Zhang, Lingge Liu, Ye Chen* Institute of Space Radio Technology of Xi'an	8278

Poster Session IV

15:50-17:50, Thursday, August 1, 2024 Session chair: Mingliang Lao	
Design of a Dual-Band Dual-Circularly Polarized Transmission Conformal Metasurface with Low RCS Zhihao Li, Sijia Li, Chengyuan He, Yuhao Wu, Liqiu Hu, Lili Cong, Tong Li Air Force Engineering University	8665
Multi-band Independently Tunable Terahertz Perfect Absorber Based on Graphene Metamaterials *Penghui Li, Baohe Zhang, Zihao Zhou* Shanxi Electronic Science and Technology Institute	8518
A Circularly-polarized Metasurface antenna Array in Random Arrangement *Yi Zhao* officers college of PAP	8449
Fast and Accurate Electromagnetic-Thermal Multiphysics Analysis of Microwave Circuit Devices *Qi Zhang, Yanghui Pu, Zhicheng Ye, Ting Wan* Nanjing University of Posts and Telecommunications	8753
A GeTe Phase-change RF Switch Design Based on Microstrip Line Structure *chen chen, yuejun zheng, chenyang shuai, zheyuan yao, hai zhu* National University of Defense Technology	8713
A Fast Algorithm Based on PMCHW for Solving Composite Metallic and Dielectric Objects *Chenhao Fan, Peng Zhao, Kanglong Zhang* Hangzhou Dianzi University	8698
Efficient Solution of Propagation coefficient in Biaxial Anisotropic Media Employing Simplified Transfer Matrix Method *Jiuyang Fan, Yuxian Zhang, Xiaoli Feng, Lixia Yang, Zhixiang Huang* Anhui?University	8565
A TSEM Method for Analysing of Elastic Waves *Shuai Zhang, QI Qiang Liu, Lixia Yang, Zhixiang Huang, Naixing Feng* School of Electronic and Information Engineering Anhui University	8524
Parallelization design of WELL19937 based on FPGA *Weichao Xu, Genshen Lin, Yun Lin* School of Opto-Electronic and Communication Engineering, Xiamen University of Technology	8483
Parallelization Design and Evaluation of MT19937 Based on FPGA *Genshen Lin, Weichao Xu, Yun Lin* School of Opto-Electronic and Communication Engineering, Xiamen University of Technology	8481
Vehicle Recognition Algorithm Based on Improved YOLOv5 *Qijie Chen, Yijun Cai, Feng Lin* Smart Sensing Integrated Circuit Engineering Research Center of Universities in Fujian Province, Xiamen University of Technology	8472
Research on Improved Safety Helmet Detection Method Based on YOLOv5s *Zhenlin Huang, Yijun Cai, Feng Lin* Smart Sensing Integrated Circuit Engineering Research Center of Universities in Fujian Province, Xiamen University of Technology	8471
A Low-loss X-band Frequency-Selective Rasorber *Fan He, Wenyu Hao, Xiao Ji* National Key Laboratory of Electromagnetic Effect and Security on Marine Equipment	8803

Design of Electromagnetic Transmission/Absorption Structures Based on Machine Learning *Fan He, Zhiming Zhang, Zheng Ye, Yun He* National Key Laboratory of Electromagnetic Effect and Security on Marine Equipment	8715
A Hybrid Digital Coding Metasurface Based on VO_2 for Independent Control of Spatial and Surface Waves *Ziyi Zhu, Yujie Liu, Xiaojian Fu* Southeast University	8536
Modified Pattern Multiplication Approach for Phased Arrays *Ting Zang, Gaobiao Xiao* Shanghai Jiao Tong University	8685
Controllable Slotted SIW for Fixed-Frequency Planar Beam-Scanning Antenna *Shiquan Wang, Kwok L. Chung, Xiaotian Liu, Zhipan Wu, Caiying Li, Yingqi Pei* Nanyang Technological University, Singapore	8451
A Novel Metasurface Antenna with Reconfigurable Radiation and Scattering Performance *Huanhuan Yang, Tong Li, Jiawei Liao, Jing Zou, Tianhao Wu, Kefeng Ji, Sijia Li* AFEU	8632
A Shared-Aperture Dual-Band Array Antenna Using Gap Waveguide Technology *Min Wang, Jingke Jiang, Xu Haibin, wei Luo* Chongqing University of Posts and Telecommunications	8575
A Microwave Sensor for Detection of Water Adulteration and Spoilage in Milk Based on Split-Ring Resonator *Shuying Ding, Yingsong Li, Zhixiang Huang, Eugene Sinkevich, Vladimir Mordachev* Anhui University	8636
Sparsity-aware Subband Adaptive Filtering in Impulsive Interferences *Zhikai Gong, Yingsong Li, Baohe Pang, Xueyan Li, Wudang Xiao, Liping Li, Zlatanov Nakola* Harbin Engineering University	8416
Near-field Source DOA Estimation Algorithm Based on De-impact Function under Impulse Noise *Xingchao Xu, Baohe Pang, Yingsong Li, Liping Li* Harbin Engineering University	8404
Low Coupling Sparse Array Based on Uniform Linear Array Fitting Method *Yichang Yao, Yingsong Li, Liping Li, Zlatanov Nikola* Harbin Engineering University	8403
Bayesian weighted Dynamic Distribution of Samples-based Remote Sensing Feature Selection Method *Yi Hua, Jing Cao, Lifei Liu, Hao Chen* Beijing Institute of Aerospace Systems Engineering	8812
Stealth Backdoor Attack for Remote Sensing Image Classification *Yi Hua, Lifei Liu, Jing Cao, Hao Chen* Beijing Institute of Aerospace Systems Engineering	8811
High Degree of Freedom Low Coupling Sparse MIMO Array *Yichang Yao, Baohe Pang, Yingsong Li, Canping Yu, Wudang Xiao, Liping Li, Nikola Zlatanov* Harbin Engineering University	8801
Robust DOA Estimation Against Outliers Based on Bias-compensated Adaptive Filtering *Wudang Xiao, Canping Yu, Yingsong Li, Liping Li, Dingcheng Zou, Nikola Zlatanov* Anhui University	8800
A Screen-Shooting Resilient Video Watermarking Algorithm Utilizing Information Membrane Overlay *Jiameng Wang, Xiang Li, Xiaolong Li, Yao Zhao* Beijing Jiaotong University	8776

Poster Session V

08:30-10:10, Friday, August 2, 2024 Session chair: Luyu Zhao	
Dependable Pipeline Detection algorithms for GPRs in Obscuration Environments *Hongyu Zhou, Guanghui Xu, Yingsong Li, Zhixiang Huang* Anhui University	8628
Proportionation Enpowered Data-Reusing Ekblom Algorithm for Signal Enhancement *Ke Ren, Xinqi Huang, Weichao Yang, Xumin Yu* China Academy of Space Technology Xi'an	8627
Improved Particle Swarm Algorithm for Sparse Array with Superior Global Sidelobe Levels *Jinyang Luo, Yuyan Duan, Kun Li, Lixia Yang* Anhui University	8541
Underwater Target Maneuver Detection and Motion Mode Recognition Based on Bi-LSTM *Yan Zhu, Weining Mao* Key Laboratory of Underwater Acoustic Signal Processing of Ministry of Education，Southeast University	8532
A Novel Signal Denoising Method Based on Adaptive Stochastic Resonance *Rui Xue, Yikun Tong* Harbin Engineering University	8442
A Joint Solution Method of Orthogonal Matching Pursuit and Improved Harris Hawk Optimization for 5G Positioning *Rui Xue, Hankuo Liu, Zedong Liang* Harbin Engineering University	8434
A Space-Time Modulated Metasurface Encoding Scheme for Orbital Angular Momentum Multiplexing *Yingqi Yue, Hui Deng, Junbing Liu, Minjie Li, Rongqiang Yang* Beihang University	8380
Design of Performance Testing Method for Track Circuit Products Based on PXI Universal Bus Technology *Li Caiqi, Xie Zaisheng* Beijing National Railway Research Design Institute of Signal Communication Group Co.,Ltd.	8234
A Fast Analysis Method of Port Voltage Standing Wave Ratio for Special Cascade Networks *Weidong Kong, Jihu Li, Kang Wu, Qiaonan Wang, Shixiong Deng, Peng Lin, Cong Wang, Kuang Zhang, Guohui Yang* Hebei Semiconductor Research Institute	8850
V-band Transceiver Based on Through Silicon Via (TSV) Technique *Yan-hong Gao, Dong-bo Chen, Shi-gang Zhou, Xi-long Lu* The 13th Research Institute of China Electronics Technology Group Corporation	8841
Testing and Analysis of DC/DC Circuit Boards Based in ESD Interference Sources *Jinxin Zhang, Dezhi Zeng, Deren Feng, Jinfu Liao, Zhaoquan Chen, Rui Ding, Rui Zhou, Jinming Chen, Weiheng Shao* School of Electric and Information Engineering Anhui University of Technology Ma'anshanAnhui, China	8798
Efficiency Analysis of UCAA for OAM Beam Generation *Lyu Lyu, Shitao Zhu, Die Li, Caipin Li* Xian Jiaotong University	8731

Ultra-wideband Vivaldi antenna for applications in microwave medical imaging *Yongli Han, Chaozhu Zhang, Mingyuan Ma, Xinyu Liao* Qilu University of Technology Jinan, China	8728
A Novel Broadband Low Profile Circularly Polarized Antenna Using AMC *Haowen Shi, Jilong Cui, Zijian Xing* School of Electronics and Information,Northwestern Polytechnical University	8607
Antenna Stealth Design Based on Polarization Reconfigurable Metasurfaces *Huan Gu* Jiangsu JARI Information Technology Co.,Ltd	8600
A Dual-Polarization Ultra-Wideband Frequency Selective Surface Based On External Dielectric Loading At Large Angle of Incidence *Huan Gu* Jiangsu JARI Information Technology Co.,Ltd	8599
A Wideband Circularly Polarized Folded Transmitarray Antenna With Linearly Polarized Feed *Xiangdong Sun, Xulong Guo, Yin Li, Yongliang Zhang, Yingsong Li* Inner Mongolia Universit	8430
A Design for an Ultra-Wideband Antenna with Reconfigurable Band-Notch Capabilities *Hao Zhang, Fang Zhang* College of Physical Science and Technology, Bohai University	8426
A Single-Layer Low-Profile Circularly-Polarized Filtering Antenna for 5.8GHz WLAN Application *Jinping Zhang, Yingsong Li, Eugene Sinkevich, Vladimir Mordachev* Harbin Engineering University	8406
Compact Tri-band Monopole Antenna for RFID/GPS/WLAN/WiMAX Applications *Ming Yang, Jinzhi Zhou* West Anhui University	8365
Three-Dimensional Silicon Based SIP Design of the Four-Channel Phased Array Radar TR Module for Ka-band Applications *Yanhong Gao, Dongbo Chen, Yihao Xia, Qingyu Kong, Zeyuan Chen, Zhongpeng Liu, Shigang Zhou, Xilong Lu* The 13th Research Institute of China Electronics Technology Group Corporation Shijiazhuang, China	8838
A Novel Design Method for a Miniaturized Vertical Interconnection TSV Structure *Yihao Xia, Qingyu Kong, Zeyuan Chen, Zhongpeng Liu, Yanhong Gao, Dongbo Chen, Shigang Zhou, Xilong Lu* School of Microelectronics Northwestern Polytechnical University Taicang, China	8837
A SPICE-Compatible Model for On-Chip Coplanar Coupled Waveguides Up to 110 GHz *Hong-Shun Yin, Peng Zhang, Xuan Lin, Chen-Yang Yao, Da-Wei Wang, Qi-Qiang Liu, Cheng-Hao Yu, Wen-Sheng Zhao* Hangzhou Dianzi University	8504
Manufacturing process and comparative analysis of MEMS accelerometers *Zhang Shilong, Tang Zhengyang, Chen Kejun* XJTLU	8489
Probing the Interaction Effect in Moderated Multiple Regression *Yanchun Jin, Bing Guan* Huizhou University	8782
BeautyGuard: Style Transfer-Based Adversarial Beautification for Facial Privacy Protection *Tiankuo Shi, Jingtian Wang, Xiaolong Li, Yao Zhao* Beijing Jiaotong University	8769

Poster Session VI

10:25-12:00, Friday, August 2, 2024 Session chair: Kuang Zhang	
SSM-YOLO: Lesion Detection Algorithm for Colorectal Polyps *Baojie Zhang, zhongxun Wang, Yiyan Zhang, Peixue Liu* Yantai University	8394
Design of an Airport Baggage Soft and Hard Bag Recognition Device *Xiuqing Yang, Yong Xiang, Shilai Liao, Lihua Zhong, Shu Zhou, Yue Xu* Civil Aviation Logistics Technology Company Limited The Second Research Institute of CAAC	8389
MonoMixNet:Self-Supervised Monocular Depth Estimation with a Mixed Network *Hongming Tao, Ping Wang, Junqing Wang, Yifan Cheng, Fajian Liu* School of Communication and Information Engineering Chongqing University of Posts and Telecommunications	8385
Research on Document Image Binarization: A Survey *Jinlong Ho, Min Liu* School of Opto-Electronic Comunication Engineering Xiamen University of Technology	8375
Study on Oracle Bone Image Preprocessing Based on Fusion of Denoising and Enhancement Techniques: Improving Text Detection Accuracy *Hankun Yang, Bowei Zhu, Yanmin Zhang, Beiming Li* Yantai Research Institute of Harbin Engineering University	8373
Research on Measurement Method for Secondary Electron Emission Coefficient of Aerospace Material *Wang Sizhan, Wang Zhihao, Nie Xiangyu, Yang Xiaoyi* Beijing Institute of Spacecraft Environment Engineering	8439
Magnetic core inductor-based resonator for magnetic sensing and communication *Zhiguang Wang, Zhiyuan Deng, Qingren Jin, Qiancheng Lv, Ke Zhou, Baihua Lu, Bing Tian, Yuhang Ma, Ming Liu* Xian Jiaotong University	8410
Research on Power Efficiency Optimization of Resonant BD-WPT *Zhang Yu, Wang Qi, Li Wang, Liu Shan* Xi'an Technological University	8725
Thyristor Conduction Angle Acquisition Based on Strong Tracking Filter *Zhang Liguang, Liu Shan, Zhao Yuqian, Zhang Yuzhe* Xian Technological University	8722
A Control Method for Current Sharing in Interleaved LLC Resonant Converter *Yuan He, Yetao Jia, Longxiang Gao, Wei Xue, Yan Yang, Tian Gao* Northwestern Polytechnical University	8631
A Low-profile Wideband Antenna Based on Decoupling Surface for Millimeter-wave Phased Array Application *Bao Xiong, Yongzhong Zhu, Leng Han, Wenxuan Xie* Engineering University of PAP	8458
An ADMM Approache for PAPR Reduction in Multi-Receiver MISO-OFDM Fuze *Li Jiabao, Qin Yuanyuan* Xian Institute of Electromechanical Information Technology	8816
PAPR Minimization based on Symbol Level Precoding in Multi-Receiver MISO-OFDM Fuze *Li Jiabao, Ma Jie, Li Weishan, Xue Mingyang, Fan Chaoyu* Xi an Institute of Electromechanical Information Technology	8815