2025 IEEE 8th International Conference on Electronic Information and Communication Technology

2025 ICEICT

Conference Program

Organizers:

哈爾濱工業大學(威海)
HARBIN INSTITUTE OF TECHNOLOGY, WEIHAI

IEEE

Co-organizers:

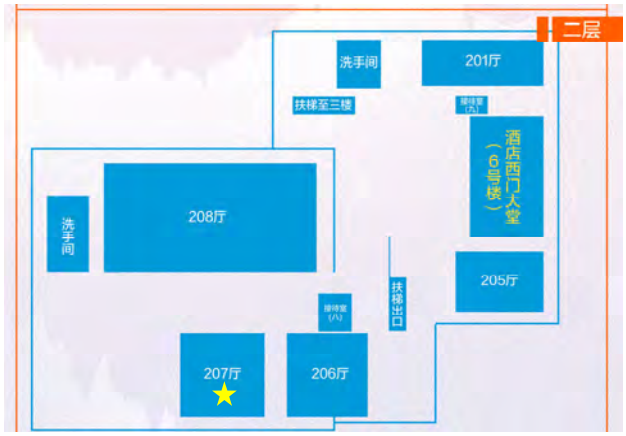
Université Paris Nanterre

Contents

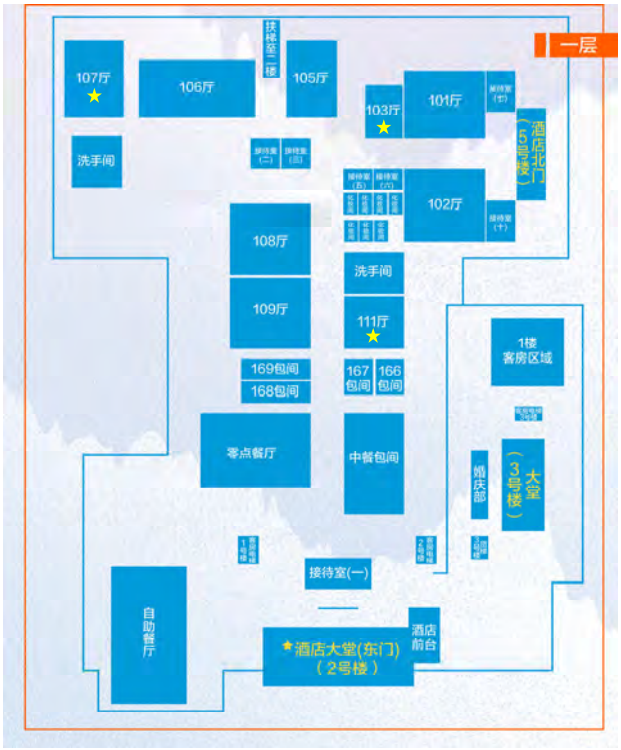
Venue

Conference Venue and Hotel: Weihai Huaxia Training Center

Address: Address: No.1 Huaxia Road, Huancui District, Weihai City



2F plan
Morning of July 27



1F plan
Afternoon of July 27
Morning of July 28

Please scan below QR code to view photos of the event

Program at a Glance

Timeframe	Saturday, July 26, 2025	
09:00-19:00	Registration	Hall of Weihai Huaxia Training Center

Timeframe	Morning, Sunday, July 27, 2025	
09:00-09:15	Opening Ceremony	2F 207 Room
09:15-09:20	Group Photo	
09:20-09:55	Plenary Speech I	2F 207 Meeting Room
09:55-10:30	Plenary Speech II-Online	
10:30-10:50	Coffee Break	
10:50-11:25	Plenary Speech III	2F 207 Meeting Room
11:25-12:00	Plenary Speech IV	
12:00-13:30	Lunch	1F Cafeteria

Timeframe	Afternoon, Sunday, July 27, 2025	
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13:30-15:15	Invited Talk and Oral Session 2	107 Meeting Room
13:30-15:00	Invited Talk and Oral Session 3	111 Meeting Room
14:00-15:00	Poster Session I	1F
15:15-15:30	Coffee Break	
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15:30-17:15	Invited Talk and Oral Session 5	107 Meeting Room
15:30-17:00	Special Session and Oral Session 6	111 Meeting Room
18:00-20:00	Dinner and Best Paper Award	109 Hall

Timeframe	Morning, Monday, July 28, 2025	
08:30-10:15	Special Session 2	103 Meeting Room
08:30-10:15	Invited Talk and Oral Session 7	107 Meeting Room
08:30-10:30	Special Session 4 and Oral Session 8	111 Meeting Room
09:00-10:00	Poster Session II	1F
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10:30-12:30	Invited Talk and Special Session	103 Meeting Room
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10:30-12:30	Invited Talk and Special Session 7	111 Meeting Room
12:30-13:30	Lunch	1F Cafeteria

Organizing Committee

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Botao Feng	Shenzhen University, China
Shigang Zhou	Northwestern Polytechnical University, China
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Guohui Yang	Harbin Institute of Technology, China

Special Session Chairs

Special Session 1: Microwave devices and systems for next-generation communication	
Botao Feng	Shenzhen University
Guoxiang Shu	Shenzhen University
Xiao Ding	Macau University of Science and Technology
Special Session 2: Recent Advances of Multifunctional Intelligent Metasurface	
Kwok L. Chung	Guangzhou Institute of Science and Technology
Li Deng	Beijing University of Posts and Telecommunications
Mei Li	Chongqing University
Shiquan Wang	Nanyang Technological University
Special session 3: AI motivated antenna designs and measurements	
Guan-Long Huang	Foshan University
Luyu Zhao	Anhui University
Wei Lin	The Hong Kong Polytechnic University
Xiaoming Chen	Xi'an Jiaotong University
Special session 4: Global Frontiers in AI-Driven Cyberspace Security, Intelligent Agriculture, and ICT Innovation	
Chaoyang Li	Guangdong University of Science & Technology
Zhipan Wu	Huizhou University

Special Session 5: Advancements in Antenna and Microwave Technologies Driven by Additive Manufacturing and Intelligent Terminals	
Jianxing Li	Xi'an Jiaotong University
Yanyang Wang	Hangzhou Dianzi University
Special session 6: Advanced Technologies and Emerging Applications in Radar Signal and Image Processing	
Mingliang Tao	Northwestern Polytechnical University
Yifei Fan	Northwestern Polytechnical University
Zixun Guo	Northwestern Polytechnical University
Special session 7: Microwave Energy Application	
Huacheng Zhu	Sichuan University
Yinhong Liao	Southwest University
Yang Yang	Sichuan University
Zhangjie Luo	Southwest University

General Chair's Welcome

Good morning, ladies and gentlemen. This is 2025 IEEE 8th International Conference on Electronic Information and Communication Technology (ICEICT 2025) . I'm Chenxu Wang from Harbin Institute of Technology, Weihai. On behalf of the Organizing Committee, it is my great honor and pleasure to welcome you to this conference, to be held in Weihai, China on July 26-28, 2025.

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 2025 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 2025 is sponsored by Harbin Institute of Technology, Weihai and IEEE Harbin Section, IEEE Harbin AP/MTT/EMC Joint Chapter, Anhui University and Heilongjiang University.

This conference has received enthusiastic responses, with approximately 230 submitted papers from 5 countries and nearly 65 university. Based on careful peer review, approximately 160 papers were accepted. The conference also invited 4 plenary speeches.

Harbin Institute of Technology (HIT) was established in 1920 in Harbin, Heilongjiang, China. In 1954, HIT became one of China's first six leading universities. Since its beginning, HIT has always had a strong international environment. Now HIT has signed academic cooperation agreements with 278 universities in 39 countries. These collaborations include student and faculty exchange programs, joint academic conferences, and scientific research cooperation. Together with Weihai campus and Shenzhen campus, HIT forms the pattern of **"**One University, Three Campuses.**"** HIT is steadily moving towards the goal of becoming a world-class university.

Weihai, a coastal city in Shandong Province, China, is known for its clean beaches, pleasant climate, and rich history. As a former British naval base, it blends Eastern and Western architectural styles. Famous attractions include Liugong Island, Chengshantou Scenic Area, and Weihai International Bathing Beach. It's a popular summer destination and a model city for eco-tourism. With a strong economy and high quality of life, Weihai is ideal for both travel and living.

At last, I wish the conference a great success and wish you all pleasant stay in Weihai. 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.

Chenxu Wang

General Chair, ICEICT 2025

TPC Chair's Welcome

On behalf of the ICEICT2025 Technical Program Committee (TPC), we have the pleasure to introduce the technical program. A total of 230 full-paper submissions from 5 countries were received, including China, Denmark, Kenya, Philippines, United States. Twenty-five percent of submissions were from countries outside China. After selection, 132 papers were accepted for presentation in either oral (63) or poster (69) sessions. This equates to a reject rate of 20 percent.

In those acceptance papers, 57 papers related to microwave and millimeter components, 54 antenna theory and design, 20 to wireless communications, 14 to remote sensing and 15 papers to electromagnetic wave propagation.

The conference will be opening at 9:00 am on Sunday 27 July 2025, together with the opening ceremony and the plenary session. The regular conference sessions will commence from afternoon 13:30 pm on Sunday 27 July to Monday 28 July, 2025. There are 12 oral sessions arranged in 3 parallel sessions, and 2 poster sessions. In addition to the regular papers, 12 papers selected as invited papers will be presented in the sessions. The conference will come to a close at noon on July 28th.

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 ICEICT2025 @ Weihai.

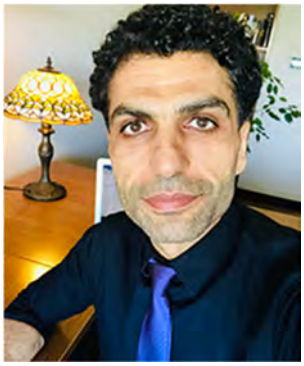
Prof. Kuang ZHANG

Prof. Xiaoming Chen

TPC Chairs for ICEICT2025

Plenary Speech

Plenary Speaker I: Ali Ghrayeb



Speaker's Biography:
Ali Ghrayeb received the Ph.D. degree in electrical engineering from The University of Arizona, Tucson, AZ, USA. He is currently a Professor with the Department of Electrical and Computer Engineering, Texas A&M University at Qatar. Prior to his current position, he was a tenured professor in the Electrical and Computer Engineering Department at with Concordia University, Montreal, QC, Canada. He has co-authored two books and published over 250 journal and conference papers. His research interests include wireless and mobile communications, physical layer security, massive MIMO, visible light communications, smart grid, artificial intelligence and machine learning. He served as an Instructor or co-Instructor in many technical tutorials at several major IEEE conferences. He served as the Executive Chair of the 2016 IEEE WCNC Conference. He served as a member of the IEEE ComSoc Conferences Council, a member of the IEEE GITC Committee, and a member of the IEEE WCNC Steering Committee. He served in different editorial capacities on a number of IEEE transactions journals. He currently serves on the IEEE ComSoc Awards Committee. He is a Fellow of the IEEE.

Speech title: Advances in Technologies for 6G Wireless Networks

Abstract:
Due to the dramatic increase in high data rate services and in order to meet the demands of the sixth-generation (6G) wireless networks, researchers from both academia and industry have been exploring advanced transmission techniques, new network architectures and new frequency spectrum such as the millimeter wave, the terahertz, the infrared, and the visible light spectrum. One promising technology is Light Fidelity (LiFi), which has been introduced as a promising solution for 6G networks, owing to the large unexploited spectrum, translating to significantly high data rates. Other aspects include millimeter wave communications, rate splitting multiple access (RSMA), integrated sensing and communications (ISAC), digital twins, as well as physical layer security. In this talk, we will present new results on various aspects of technologies for 6G networks, particularly the above mentioned ones. As a byproduct of this talk, we will be discussing a few open problems with great potential.

Plenary Speaker II: Yonghui Li

Speaker's Biography:

Yonghui Li is now a Professor and Director of Wireless Engineering Laboratory in School of Electrical and Information Engineering, University of Sydney. He is the recipient of the Australian Research Council (ARC) Industry Laureate Fellow in 2025, ARC Queen Elizabeth II Fellowship in 2008 and ARC Future Fellowship in 2012. He is an IEEE Fellow and Clarivate highly cited researcher. His current research interests are in the area of wireless communications. Professor Li was an editor for IEEE transactions on communications, IEEE transactions on vehicular technology and guest editors for several special issues of IEEE journals, such as IEEE JSAC, IEEE IoT Journals, IEEE Communications Magazine. He received the best paper awards from several conferences. He has published one book, more than 300 papers in premier IEEE journals and more than 200 papers in premier IEEE conferences. His publications have been cited more than 25000 times.

Speech title: Beyond 5G for Industrial IoT

Abstract:

Connected smart objects, platforms and environments have been identified as the next big technology development, enabling significant society changes and economic growth. The entire physical world will be connected to the Internet, referred to as Internet of Things (IoT). The intelligent IoT network for automatic interaction and processing between objects and environments will become an inherent part of areas such as electricity, transportation, industrial control, utilities management, healthcare, water resources management and mining. Wireless networks are one of the key enabling technologies of the IoT. They are likely to be universally used for last mile connectivity due to their flexibility, scalability and cost effectiveness. The attributes and traffic models of IoT networks are essentially different from those of conventional communication systems, which are designed to transmit voice, data and multimedia. IoT access networks face many unique challenges that cannot be addressed by existing network protocols; these include support for a truly massive number of devices, the transmission of huge volumes of data burst in large-scale networks over limited bandwidth, and the ability to accommodate diverse traffic patterns and quality of service (QoS) requirements. Some IoT applications have much stringent latency and reliability requirements which cannot be accommodated by existing wireless networks. Addressing these challenges requires the development of new wireless access technologies, underlying network protocols, signal processing techniques and security protocols. In this talk, I will present the IoT network development, architecture, key challenges, requirements, potential solutions and recent research progress in this area, particularly in 5G and beyond 5G.

Plenary Speaker III: Yuantao Gu

Speaker's Biography:
Yuantao Gu is a Professor with the Department of Electronic Engineering at Tsinghua University. His research interests encompass high-dimensional statistics, sparse signal recovery, temporal-space and graph signal processing. Dr. Gu has been an Elected Member of the IEEE MLSP and SPTM Technical Committees. He has received the Best Paper Award at IEEE GlobalSIP in 2015 and the Zhang Si-Ying (CCDC) Outstanding Youth Paper Award in 2017 (shared with one of his students). He has received the Outstanding Reviewer Award and the Outstanding Editorial Board Member Award for his services at IEEE ICASSP in 2019 and for IEEE TRANSACTIONS ON SIGNAL PROCESSING in 2021, respectively. He served as an Associate Editor and then Senior Area Editor for IEEE TRANSACTIONS ON SIGNAL PROCESSING from 2015 to 2023.

Speech title: Probabilistic Diffusion Models: Principles, Evolution, and Optimization

Abstract:
Generative artificial intelligence represented by diffusion models is triggering a new round of technological revolution. This speech will introduce probabilistic diffusion models and the recent work of our research group. First, it briefly reviews the development history of generative AI, with emphasis on explaining the basic principles of diffusion models, including forward noising and reverse denoising concepts, as well as the technological evolution from DDPM, Score-based, to Flow Matching. Subsequently, the speech also introduces the latest progress of our research group in diffusion model optimization aspects such as angular domain sampling guidance and inverse problem solving. Finally, it briefly outlines the future development directions and challenges facing diffusion models.

Plenary Speaker IV: Suleman Mazhar

Speaker's Biography:

Suleman Mazhar is working as a professor in Information & Communication Engineering Program at Harbin Engineering University (China) since July 2019. He did PhD from Tokyo University (Japan) and postdoctorate from Georgetown University (Washington DC, USA). He had BS-CS from FAST-NUCES (Lahore) and MS from GIK Institute (Pakistan). He is TYSP young scientist fellow (Ministry of Science & Technology China) and has won several research grants from international organizations (such as DAAD (Germany), ICIMOD (Nepal), NRPU (Higher Education Commission Pakistan), WWF (Worldwide Fund for Nature) Pakistan). His research focus is deep learning and signal processing applications for environmental monitoring, with particular focus on underwater acoustics, and marine mammal conservation. He is distinguished lecturer (DL) IEEE-OES, chair TC-LR (IEEE-OES), advisor IEEE-OES SBC (SWPU, Chengdu) and editor/ reviewer for professional journals such as IEEE Data Descriptions Journal, Journal of Acoustical Society (America), IEEE Journal of Oceanic Engineering, IEEE Sensors Journal, Applied Acoustics, IEEE Transactions on Intelligent Transportation Systems.

Speech title: End to end underwater OFDM communication approaches using deep learning

Abstract:

With an increased interest in deep learning during late 2000, research landscape has shifted from classical signal/data processing methods or algorithms to data-driven approaches. We are observing a plethora of research works reporting accuracies as high as 99% or nearly 100%, thanks to the deep architectures. The field of underwater technology is also no exception in this regard.

In this talk, we shall explore an interesting underwater technology application. i.e. OFDM underwater communication using deep learning and have a look at some simple deep learning architectures for OFDM based underwater communication and the autonomy/control that is offered by these architectures. Unlike traditional wireless channels, the underwater environment presents unique challenges, such as fluctuating sound speed profiles, extensive multipath spread, and rapidly changing propagation conditions. Therefore, we shall also have a short glimpse into the impact of channel properties on the performance of machine/deep learning algorithms for underwater OFDM communication.

Invited Talk and Oral Session

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I. Communications and Network ***Session Chairs: Zhangjie Luo**, **Wencong Zhang***		
Paper Information		
SS7-1 13:30-14:00	A Wideband Rectifier with Simultaneous Second-Harmonic Output for Wireless Communication *Zhangjie Luo* Southeast University	9116 *Invited Talk*
SS7-2 14:00-14:30	Microwave plasma jets for electronic manufacturing *Wencong Zhang* Guiyang University	9188 *Invited Talk*
OS1-1 14:30-14:45	Comparative Study of Carrier Synchronization for LEO Satellite Communications with DVB-S2 and 5G OFDM *Feng Jiukui, Pan Mengguan, Zhao Luyu, Li Yingsong, Xu Guanghui* Anhui University	9183
OS1-2 14:45-15:00	ISAC-OTFS Enabled Secure Transmission Against Co-Existing Internal and External Eavesdroppers in Vehicular Networks *Zian Chen, Qian Xu, Zhaolin Zhang, Jiansong Huang, Wen-Bin Sun, Ling Wang* Northwestern Polytechnical University	9064
Coffee Break		

13:30-15:15, Sunday, July 27, 2025 107 meeting room		
II. Signal Processing (SP) and Information Technology ***Session Chair: Jinwei Wang***		
Paper Information		
SS6-1 13:30-14:00	Application of Multidimensional Feature Fusion to LPI Radar Signal Modulation Recognition *Jinwei Wang* Yantai University	*SS6* *Invited Talk*
OS2-1 14:00-14:15	Design of High-precision Integrated Communication and Navigation Signal Based on Parasitic Broadcast Signal *Ruofan Ma, Chengyan He, Chuang Han, Jincheng Shi, Zhaolin Zhang, Ling Wang* Northwestern Polytechnical University	9176
OS2-2 14:15-14:30	An improved peak imaging method based on single-photon lidar *Buxiao LI, Tianliang XU, Ying LIU, Chenxu WANG, Tian RONG, Yuhang WANG, Yang ZHAO* Harbin Institute of Technology	9174
OS2-3 14:30-14:45	Imaging of Radar Systems with an Improved RD Algorithm Using Segment Correction Extraction *Yan Wang, Jinling Zhang, Zhenfeng Tian* Beijing University of Posts and Telecommunications	9145
OS2-4 14:45-15:00	Target localization and Doppler Estimation Using Automotive MIMO Radar *Shuai Guo, Yuexian Wang, Yandong Sun, Chuang Han, Chengyan He, Ling Wang* School of Electronics and Information, Northwestern Polytechnical University	9115
OS2-5 15:00-15:15	L_1-norm Regularization-Based GEO SAR Sparse Imaging via Fast Cartesian Back-projection *Yi Han, Zhefan Jin, Yufan Song, Hui Bi* Nanjing University of Aeronautics and Astronautics	9052
Coffee Break		

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III. Microwave Technology and Antennas ***Session Chair: Sifan Wu***		
Paper Information		
SS5-1 13:30-14:00	Dual Band Dual Circularly Polarized Monopulse Antenna with Low Axial Ratio *Sifan Wu, Yang Cai, Zhuqiong Lai, Jianhe Wang, Jianxing Li* Xi'an Jiaotong University	9109 *Invited Talk*
OS3-1 14:00-14:15	Review of High-Power-Microwave Effect Mechanism Research on PIN diode Limiters Paper *Xinyi Wang, Junpu Ling, zehai Zhang, Yang Zhang, Yang Zhou, Xingjun Ge* National University of Defense Technology	9181
OS3-2 14:15-14:30	Ultra-Wideband and Multi-Polarized Programmable Metasurface *Jie Tian, Weiren Zhu* Shanghai Jiao Tong University	9151
OS3-3 14:30-14:45	In-Band Full-Duplex High-Isolation Antenna Using Differential Feed and Polarization Diversity *Shuangqing Xiong, Jinling Zhang, Xiongzhi Zhu, Dunyu Chang, Zhenjiang Zhang, Yansong Huang* Beijing University of Posts and Telecommunications	9122
OS3-4 14:45-15:00	A Compact Dual-Polarized Co-Aperture Endfire SIW Antenna for Mm-wave Communication *Min Wang, Yiyan Luo, Zhengchuan Chen* Chongqing University of Posts and Telecommunications	9112
Coffee Break		

15:30-17:30, Sunday, July 27, 2025 103 meeting room		
V. Computer Science and AI Technology ***Session Chair: Laxmisha Rai***		
Paper Information		
OS5-1 15:30-16:00	Automated Essay Assessment Using Generative AI: Evaluating DeepSeek's Performance in University- Level Grading *Laxmisha Rai, Kejun Sheng, Fasheng Liu* Shandong University of Science and Technology	9118 *Invited Talk*
OS5-2 16:00-16:15	Photovoltaic Power Prediction Based on A Fusion Model Via BiTCN and BiGRU With MEEF Loss *Zhuo Li, Wentao Ma, Yuzhuo Dong, Peng Guo* Xian University of Technology	9190
OS5-3 16:15-16:30	Generating Visual Semiotics for Chinese Characters: Harnessing DeepSeek for Nonverbal Communication *Laxmisha Rai, Fasheng Liu* Shandong University of Science and Technology, China	9156
OS5-4 16:30-16:45	Lightweight YOLOv8n Target Detection Network for Fog-Interference Resistance on Foggy Roads *Guojin Xiao, Dan Zhang, Qiong Gao, Wenjie Huang, Fengmin Peng, Hai Qi* Huizhou University	9113
SS1-1 16:45-17:00	A Circularly Polarized Magneto-electric Dipole with Wide Bandwidth Antenna for 5G Applications *Yihuang Yang, Botao Feng, Xiao Ding, Wenzhe Gu, Li Deng, Guoxiang Shu* Shenzhen University	9098
SS1-2 17:00-17:15	Wide-Beam Dual-polarized Antenna Integrated with Irregular Cavity and Broadband Technology *Lulin Sun, Botao Feng, Xiao Ding, Li Deng, Kaikai Liu, Wei Yang* Shenzhen University	9097
OS5-5 17:15-17:30	Nighttime High Beam Detection for Autonomous Driving Using YOLOv12 *Shengxiang Huang, Lunman Deng, Xiong Yang* Huizhou University	9068

15:30-17:15, Sunday, July 27, 2025 107 meeting room		
Special Session 1: Microwave devices and systems for next-generation communication ***Session Chairs:*** **Kwok L. Chung, Guangzhou Institute of Science and Technology** **Botao Feng, Shenzhen University** **Guoxiang Shu, Shenzhen University** **Xiao Ding, Macau University of Science and Technology**		
Paper Information		
SS1-1 15:30-16:00	Harmony in Antenna Engineering: Integrating Chinese Calligraphy and Philosophy into Multiband Systems *Kwok L. Chung* Guangzhou Institute of Science and Technology	9185 *Invited Talk*
SS1-2 16:00-16:15	A Comprehensive Methodology for Characterizing Dispersive Dielectric Properties of Thin Materials Using a Mixed-Method Approach *Jiancong Luo, Kwok L. Chung, Xiaotian Liu, Yujia Lin, Liwen Liang, Jialiang Ni* Guangzhou Institute of Science and Technology	9154
SS1-3 16:15-16:30	Design and Performance Evaluation of a Patch Antenna for the n258 Band with Impedance Matching and Coaxial Cable Radius Optimization *Naveed Hamid Nawaz Khan, Botao Feng, Xiao Ding, Wenzhe Gu, Kaikai Liu, Wei Yang* Shenzhen University	9101
SS1-4 16:30-16:45	E-Type Broadband Dual-Polarized High-Gain Magneto-Electric Dipole Antenna *Liang Xiao, Botao Feng, Xiao Ding, Wenzhe Gu, Kaikai Liu, Wei Yang* Shenzhen University	9100
SS1-5 16:45-17:00	A Slot-Coupled Fed Three-Band Broadband High-Gain Circularly Polarized Magneto-Electric Dipole Antenna *Zijun Chen, Botao Feng, Xiao Ding, Wenzhe Gu, Kaikai Liu, Wei Yang* Shenzhen University	9099
OS5-6 17:00-17:15	EEG-Based Emotion Recognition via Multi-Dimensional Feature Fusion with 3D Convolutional Neural Network and Transformer *Chenzhi Wang, Xinrui Yuan, Jinshuo Zhang, Jiaqi Liu, Jie Sun* Qingdao University of Technology	9062

15:30-17:00, Sunday, July 27, 2025 111 meeting room		
III. Microwave Technology and Antennas **IV. Microelectronic Devices and Integrated Circuits** **Special Session 5: Advancements in Antenna and Microwave Technologies Driven by Additive Manufacturing and Intelligent Terminals** ***Session Chairs:*** **Jianxing Li, Xi'an Jiaotong University** **Yanyang Wang, Hangzhou Dianzi University**		
Paper Information		
SS5-1 15:30-15:45	A Compact Coupled-Line Based Broadband Balun Based on LTCC Technology *Jing Meng, Yifeng Cheng, Yanyang Wang* Hangzhou Dianzi University	9131
SS5-2 15:45-16:00	A Planar Quasi-Isotropic Antenna with System Ground Plane Based on Antenna Booster *Sheng Li, Yanyang Wang* Hangzhou Dianzi Univers School of Electronics and Information Engineeringity	9128
SS5-3 16:00-16:15	Low-Cost Reconfigurable Water-Based Multiband Absorption Frequency Selective Rasorber *Jianhe Wang, Ya Kong, Baihong Chi, Changjiang Li, Sifan Wu, Jianxing Li* Xi'an Jiaotong University	9119
OS3-5 16:15-16:30	Low-Cost PCB-Compatible THz Anomalous Reflector Enabled by Zero-Impedance Metagratings *Zhen Tan, Shah Nawaz Burokur* Nantong University	9085
OS3-6 16:30-16:45	Thinning of Large-Scale Subarrayed Antenna Arrays Based on Second-Order Cone Programming *Langtao Bai, Jixiang Wan, Kai Zhang, Li Yu, Qia Wang, Jiale Liang* China Academy of Space Technology Xi'an	9063
OS4-1 16:45-17:00	Spurious Mode Optimization of $LiNbO_3$ XBARs Based on Genetic Algorithm *Lekang Lin, Xi He, Chen Ma, Hao Wang, Renzhe Li, Ziyi Ge, Feiya Suo, Xitong Wang, Nan Wang* School of Microelectronics, Shanghai University	9066

08:30-10:15, Monday, July 28, 2025 103 meeting room		
Special Session 2: Recent Advances of Multifunctional Intelligent Metasurface ***Session Chairs:*** **Kwok L. Chung, Guangzhou Institute of Science and Technology** **Li Deng, Beijing University of Posts and Telecommunications** **Mei Li, Chongqing University** **Shiquan Wang, Nanyang Technological University**		
Paper Information		
SS2-1 08:30-08:45	Reconfigurable Intelligent Surface Implemented by Passive Metasurfaces *Xiangming Wu, Weiren Zhu* Department of Electronic Engineering, Shanghai Jiao Tong University	9175
SS2-2 08:45-09:00	YOLO-Based Corner Extraction Methods for Document Image Rectification *Baojun Dai, Yuhang Luo, Lin Wu, Ming-Tzau Lin, Jung-Kuei Yang* Dongguan University of Technology	9173
SS2-3 09:00-09:15	A Comparative Study on Fatigue Detection Models with Temporal Feature Fusion *Yi Li, Changwen Fan, Le Yang, Yingqi Wang, Pao-Min Tu, Jung-Kuei Yang* Dongguan University of Technology	9170
SS2-4 09:15-09:30	High-Purity Non-Diffracting OAM Beams Generated by a Dual-Band Dual-Polarization Transmissive Metasurface *Weidong Shen, Wenqing Liu, Yuda Wu, Weiping Chen, Li Deng, Botao Feng* School of Information and Communication Engineering, Beijing University of Posts and Telecommunications	9144
SS2-5 09:30-09:45	Design of A High-Gain Wideband Dipole Antenna with AMC Reflector *Siyuan You, Li Deng, Weidong Shen* Beijing University of Posts and Telecommunications	9123
SS2-6 09:45-10:00	Generating Quasi-perfect Vortex Waves Using a Holographic Metasurface *Beibei Zhang, Li Deng* Beijing University of Posts and Telecommunications	9120
SS2-7 10:00-10:15	A Reconfigurable Metasurface Design with Energy Selectivity *Shuzhen Wan, Boyan Deng, Zhangjie Luo* Southeast University	9107
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Special Session 3: AI motivated antenna designs and measurements ***Session Chairs:*** **Guan-Long Huang, Foshan University** **Luyu Zhao, Anhui University** **Wei Lin, The Hong Kong Polytechnic University** **Xiaoming Chen, Xi'an Jiaotong University**		
Paper Information		
SS3-1 08:30-09:00	An AI-Empowered Spherical Near-Field Antenna Measurement Method with Reduced Acquisition Time *Xiaoming Chen* Xian Jiaotong University	9117 *Invited Talk*
SS3-2 09:00-09:15	An Ultrawideband Metamaterial Absorber Based on Lumped Resistor *Xiaosheng Zhang, Yuke Guo, Luyu Zhao* Xidian University	9164
SS3-3 09:15-09:30	Self-Decoupling Design for Penta-Element Antenna System by Parasitic Resonances *Yuke Guo, Xiaosheng Zhang, Luyu Zhao* Xidian University	9102
OS8-1 09:30-09:45	Control of Thermal Dynamics Coupling Power-to-Hydrogen Plant and Residential District Heating System - A Conceptual Development *Zhenyu Yang, Anna Eszter Nyiri* Aalborg University	9150
OS8-2 09:45-10:00	Design of an FPGA-based Digital Control Scheme for Multi-frequency Source Systems *Yingzhe Wang, Zhenfeng Tian, Jinling Zhang* Beijing University of Posts and Telecommunications	9146
OS3-7 10:00-10:15	Optimization of Broadband Non-uniform Array Design with Layout Constraints *Tianlong Li, Yang Yang* Sichuan University	9186
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Special Session 4: Global Frontiers in AI-Driven Cyberspace Security, Intelligent Agriculture, and ICT Innovation ***Session Chairs:*** **Chaoyang Li, Guangdong University of Science & Technology** **Zhipan Wu, Huizhou University**		
Paper Information		
SS4-1 08:30-08:45	Performance Analysis of Two-Terminal MIMO Antenna Array with Non-Identical Lishu Elements *Xueyi Lin, Kwok L. Chung, You Yang, Yirong Wu, Caiying Li* Guangzhou Institute of Science and Technology	9196
SS4-2 08:45-09:00	A Comparative Study of Object Detection and Keypoint-Based Methods for Static Chinese Sign Language Recognition *BinWei Wen, YiJie Wang, DeJiang Li, Chih-Ying Chuang, Jung-Kuei Yang* Dongguan University Of Technology	9171
SS4-3 09:00-09:15	Multi-Feature Fusion Fall Detection Using OpenPose and Analytic Hierarchy Process *Ying Wei, Hongtao Zhang, Tsung-Ming Lo, Jung-Kuei Yang* Dongguan University Of Technology	9163
SS4-4 09:15-09:30	Strategies for Implementing the Vision Zero Approach in Nepal for Road Safety *Smriti Khatiwada, Laxmisha Rai* Shandong University of Science and Technology	9143
SS4-5 09:30-10:00	Exploration of the Integration of YOLOv11 and Deep Learning in Orchard Weed Identification *Zhipan Wu, Jinxiong Chen, Junjie Ji, Kwok L. Chung, Jiazhou Xu, Guanda Lu* Huizhou University	9127 *Invited Talk*
SS4-6 10:00-10:15	The improved YOLOv11 model based on lightweight coordinate attention module is used for automatic recognition of maize disease images *Jingxiong Chen, Zhipan Wu, Guoming Lai, Zirui Li, Huaying Du* Huizhou University	9126
OS5-7 10:15-10:30	Enhanced Monocular Depth Estimation Based on Improved Self-Attention Mechanisms and Composite Loss Functions *Mingshen Huang, Xiaohuan Zhang, Yitao Mai, Jiafu Zhang, Dan Zhang* Huizhou University	9110
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Special Session 6: Advanced Technologies and Emerging Applications in Radar Signal and Image Processing ***Session Chair: Ming Liu***		
Paper Information		
SS6-2 10:30-10:50	Deep Learning-Driven SAR Application: Robust Target Recognition under Extended Operating Conditions and Advanced Generative Models *Ming Liu* Shaanxi Normal University	*Invited Talk*
SS6-3 10:50-11:10	Achieving SAR Ship Target Detection Based on Superpixel Segmentation and Deep learning *Shichao Chen* Northwestern Polytechnical University	*Invited Talk*
SS6-4 11:10-11:25	A Novel Multi-Modal Radar-Vision Fusion for Robust Object Detection in Autonomous Driving *Hao Du, Zekai Li, Chaofan Miao, Hang Li, Chuansheng Zhang, Yingchun Li, Zhongjie Wu* Harbin Institute of Technology	9202
SS6-5 11:25-11:40	Novel Research on Multi-person Heart Rate Detection Technology Based on FMCW Radar *Xuefei Dong, Jinwei Wang, Yunxue Liu, Shiqing Tang* Yantai University	9141
SS6-6 11:40-11:55	ConvNeXt Architecture Enhanced with Modified SCConv for LPI Radar Modulation Classification *Yingzheng Yin, Jinwei Wang, Yuzhao Tang, Xinyu Wang* Yantai University	9132
SS4-1 11:55-12:10	Gesture Recognition Using Millimeter Wave Radar Based on Attention Based-Convolutional Neural Network *Chaoyang Li，Xiaohan Li，Qingjuan Yang，Lei Yang，Kwok L. Chung* Guangdong University of Science & Technology	None
SS6-7 12:10-12:30	Multichannel Adaptive Signal Detection for Modern Radar Systems *Weijian Liu* Wuhan Electronic Information Institute	*Invited Talk*

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VII. Sensors **Special Session 7: Microwave Energy Application** ***Session Chair: Hong Tao***		
Paper Information		
SS7-1 10:30-11:00	A Dual-band Microwave Sensor for Solid Sensing *Tao Hong, Shuang Tian* China West Normal University	9193 *Invited Talk*
SS7-2 11:00-11:15	Study of Microwave Energy Utilisation Efficiency Based on a Two-port Model *Huaxin Tian, Yuhong Du, Yuanyuan Li, Yao Zhang, Yi Yang, Zhengming Tang* China West Normal University	9200
SS7-3 11:15-11:30	Study on Numerical Simulation Continuous Microwave Drying of Zanthoxylum Bungeanum *Yue Tang, Yao Zhang, Yuhong Du, Yuanyuan Li, Chen Sun, Zhengming Tang* China West Normal University	9199
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SS7-5 11:45-12:00	An Impedance Matching Method Based on Multilayer Dielectric Plates *Jingxin Du, Tao Hong* China West Normal University	9194
OS7-1 12:00-12:15	A Virtual Sensor Equivalence Strategy for Sparse Array Configuration Design *Pinjiao Zhao, Bin Sun, Liwei Wang, Guobing Hu* Jinling Institute of Technology	9169
OS7-2 12:15-12:30	Exceptional Point in a Perturbed Spoof Plasmonic Resonator for Dielectric Sensing *Kaiyuan Liu, Dawei Zhang, Wan Chen, Yaxiu Sun, Tao Jiang, Shah Nawaz Burokur* Harbin Engineering University	9084

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Special Session 7: Microwave Energy Application ***Session Chairs:*** **Huacheng Zhu, Sichuan University** **Yinhong Liao, Southwest University** **Yang Yang, Sichuan University** **Zhangjie Luo, Southeast University**		
Paper Information		
SS7-6 10:30-11:00	F-anode Enhances the Breakdown Voltage of Multi-Channel AlGaN/GaN Schottky Barrier Diode with Low On-Resistance *Ce Wang* Sichuan University	9211 *Invited Talk*
SS7-7 11:00-11:15	Study of the High-Efficiency Microwave Plasma Torch in CO_2 Conversion *Jing Wu, Huacheng Zhu, Yang Yang* Sichuan University	9192
SS7-8 11:15-11:30	Design of a Low-Frequency Ten-Way Wilkinson Power Divide *Jiahui Cai, Tao Hong* School of Electronic Information Engineering, China West Normal University	9189
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SS7-10 11:45-12:00	Quadratic Dynamic Matrix Control for Temperature Difference Regulation in Microwave Heating *JunChen Guo, YinHong Liao* Southwest University	9149
SS7-11 12:00-12:15	Asymmetric Microwave Propagation in Gradient Index Metamaterials for Enhanced Energy Efficiency *Fengming Yang, Yuanyuan Wu* Chengdu University of Technology	9195
SS7-12 12:15-12:30	Compact amplifying metasurface for active microwave transmission enhancement *Wanting Tong, Ye Deng, Ke Chen, Junming Zhao, Tian Jiang, Yijun Feng* Nanjing University	9213

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A Metasurface-Based Circularly Polarized All-Textile Antenna for Wearable Applications *Lihua Wang, Changjiao Duan, Baofeng Cao, Peng Li, Yingsong Li, Adrian Bekasiewicz, Dmitry Kholodnyak* College of Information and Communication Engineering, Harbin Engineering University	9042
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