

Welcome Address

Dear ICICSP Participants,

Welcome to attend the 3rd IEEE International Conference on Information Communication and Signal Processing (ICICSP) 2020. This year, the world is fighting against the outbreak of COVID-19, there is no doubt that the safety and well-being of our participants is of paramount importance to the conference organizing committee. In consideration of the health and safety of everyone, pervasive travel restrictions as well as most author's appeals, we have made the decision to convert ICICSP 2020 to virtual conference.

ICICSP is initiated in 2018, and was held successfully in Nanyang Technological University, Singapore in 2018 and Shandong University (Weihai), China in 2019. The applications of signal processing are vast and interdisciplinary-ranging from engineering to economics and astronomy to biology. The research in areas such as signal coding and de-noising have paved the path for these advancements. Recent decade has witnessed major revolution in communication and processing of digital media. As a consequence, solution to major problems in processing, transmission and reception have made signal processing an integral part of modern electronic and communication systems. Communication on the other hand plays major role in our day to day life. The communication technology helps in the advancement of modern systems to meet our need of efficient exchange of ideas.

We express our gratitude to keynote speakers, session chairs, all committee members, sponsors who have contributed a lot to the conference. We would like to thank you all for your support and participation. We sincerely hope that participating ICICSP 2020 will be a rewarding and fruitful experience for you.

Let us also look forward to meeting each other in a physically face-to-face conference 2021.

With Warmest Regards,
ICICSP 2020 Organizing Committee

Agenda Overview

01

Zoom Guidance & Test Schedule

02

Meeting Agenda

03

Introduction of Keynote Speakers

04

Introduction of Parallel Sessions

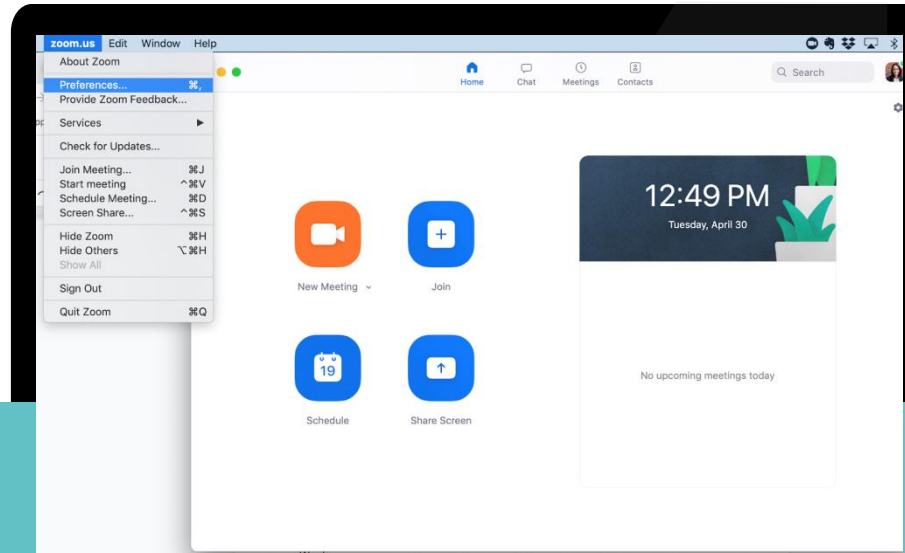
05

2020 ICICSP Committee

01 Zoom Guidance

Sign-in

To sign in, use your **Zoom**, **Google**, or **Facebook** account. You can also log in using **SSO**. Or you can click **Sign Up Free**.



Join a Meeting

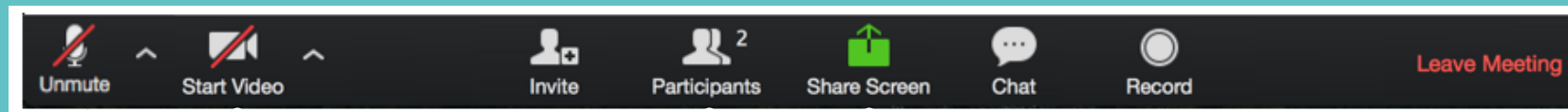
Each meeting has a unique **9, 10, or 11-digit** number called a **meeting ID** that will be required to join a Zoom meeting.

Download

URL: <https://zoom.us/download>

Assistant 1

For any questions on the meeting day, you can text privately to “Assistant 1” for help.



Audio muted and video off (both indicated by a red slash).

Click to open the Participants box. This will allow you to “Raise Hand”.

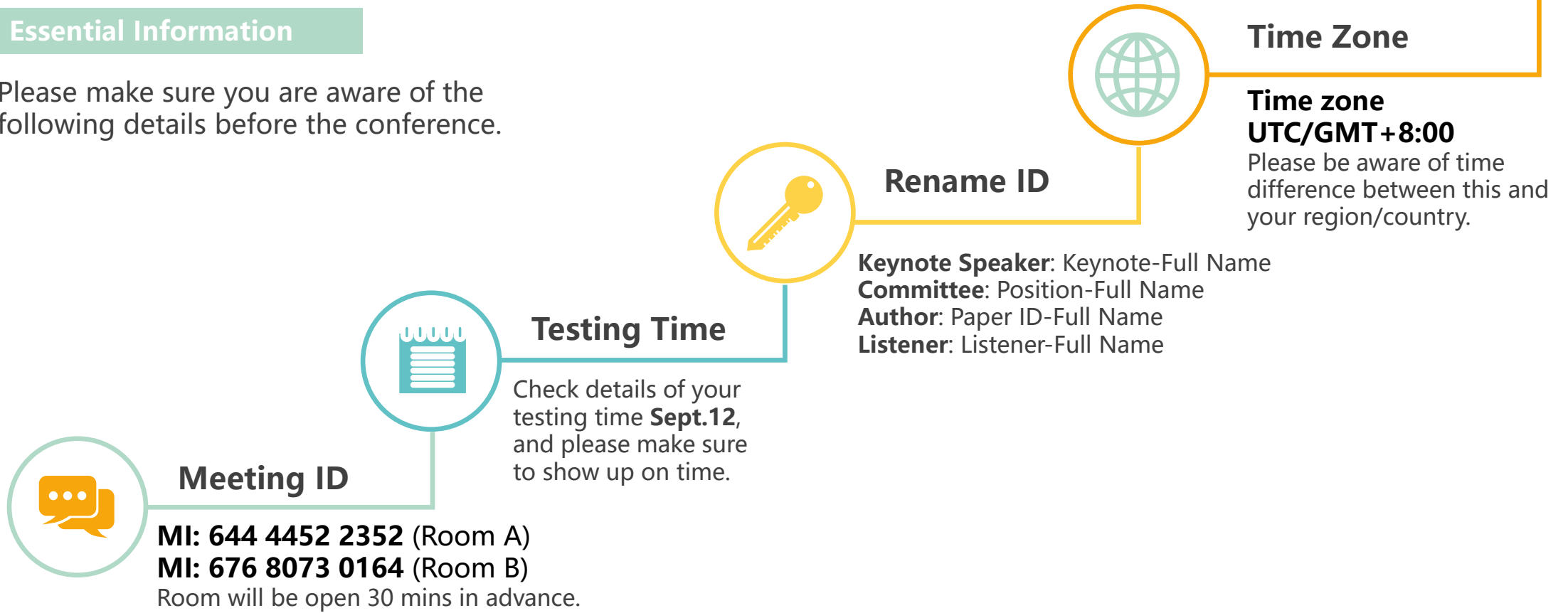
To share screen or contents.

Click to open the Chat box. This will allow you to chat with Hosts and Participants.

01 Zoom Guidance

Essential Information

Please make sure you are aware of the following details before the conference.



Room A	Room B
MI: 644 4452 2352	MI: 676 8073 0164

01 Zoom Test Schedule-Sept. 12 (UTC/GMT +8:00)

10:00-10:50	10:50-11:30	11:30-12:10	13:30-14:10	14:10-15:00	15:00-15:30	15:30-16:10
Session 1	Session 3	Session 7	Session 9	Session 11	Special Session (Part A)	Special Session (Part B)
C034	C016	C024	C006	C007	C1016	C081
C050	C025	C042	C044	C033	C1017	C082
C053	C026	C054	C073	C040	C015	C083
C057	C031	C060	C087	C062	C018	C093
C058	C091	ME009	C1005	ME007	C048	C098
C067	C100	C072	ME003	C066	C068	C099
C069	C108	C076	ME005	C079	C078	C1006
C097	/	C1011	ME006	C088	/	C105
C107	/	/	/	C1008	/	/
Standby Time: 16:10-17:00						

10:00-10:50	10:50-11:30	11:30-12:10	13:30-14:10	14:10-14:50	14:50-15:40
Session 2	Session 4	Session 5	Session 6	Session 8	Session 10
C030	C002	C014	C003	C027	C005
C035	C028	C047	C012	C032	C009
C036	ME004-A	C049	C075	C051	C010
C070	C038	C059	C086	C064	C011
C102	C077	C061	C1004	C055	C013
C080	C101	C084	C1009	C071	C017
C1001	C1013	ME011	C1012	C090	C029
C103	/	/	ME008	C052	C041
C1015	/	/	/	/	C095
Standby Time: 15:40-17:00					

*Standby Time: Extra testing time for participants who are unable to attend at set time.

Room A	Room B
MI: 644 4452 2352	MI: 676 8073 0164

02 Meeting Agenda-Sept. 13 (UTC/GMT +8:00)

TIME	KEYNOTE (Room A) 45min each, including 5min for Q&A	PRESENTER
09:00-09:10	Opening Remarks	Prof. Ruolun Liu (Conference Co-Chair & Host) Shandong University at Weihai, China
09:10-09:55	Keynote Speech I AI and Edge Computing (EC) for Smart City	Prof. Weijia Jia (IEEE Fellow) BNU-UIC Institute of Artificial Intelligence and Futuer Networks, Beijing Normal University (Zhuhai) and BNU-HKBU United International College, China
09:55-10:40	Keynote Speech II Design of Compact and Wide-Band Antennas for Modern Communication Systems	Prof. Zhongxiang Shen (IEEE Fellow) Nanyang Technological University, Singapore
10:40-11:00	Group Photo (<i>Please turn on the camera in advance</i>) & Break Time	
11:00-11:45	Keynote Speech III Deep Learning for Physical Layer Communications: An Attempt towards 6G	Prof. Feifei Gao (IEEE Fellow) Tsinghua University, China
11:45-13:30	Break Time	
TIME	PARALLEL SESSIONS (Room A) 15min each, including 2-3 min for Q&A	PARALLEL SESSIONS (Room B)
13:30-15:45 Break-16:20	Session 1: Pattern Recognition and Computer Vision	Session 2: Signal Acquisition and Analysis
16:20-18:05	Session 3: Digital Image Analysis and Methods	Session 4: Target Detection

Note: A special group photo will be captured after each parallel session.

Room A	Room B
MI: 644 4452 2352	MI: 676 8073 0164

02 Meeting Agenda-Sept. 14 (UTC/GMT +8:00)

TIME	PARALLEL SESSIONS (Room A) 15min each, including 2-3 min for Q&A	PARALLEL SESSIONS (Room B)
09:00-10:45 Break-11:00	Special Session: Underwater Acoustics, Underwater Signal Processing and Marine Engineering (Part A)	Session 5: Wireless Communication and Satellite Engineering
11:00-13:00	Special Session: Underwater Acoustics, Underwater Signal Processing and Marine Engineering (Part B)	Session 6: Electronic and Communication Engineering
13:00-14:00	Break Time	
14:00-16:00 Break-16:20	Session 7: Image Processing and Application	Session 8: Modern Speech Analysis and Processing Technology
16:20-18:20 Break-18:30	Session 9: Computer Science and Data Engineering	Session 10: Communication Principle and Technology
18:30-20:45	Session 11: Signal Detection and Filtering Technology	/

TIME	Sept. 15 (Room A)
14:00-17:00	Recorded Video Replay (Keynote Speech section only)

Note: A special group photo will be captured after each parallel session.

02 Meeting Agenda-Reference Table (UTC/GMT +8:00)

Sept.13 (13:30-18:05)				Sept.14 (09:00-20:45)								
Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7	Session 8	Session 9	Session 10	Session 11	Special Session (Part A)	Special Session (Part B)
C034	C030	C016	C002	C014	C003	C024	C027	C006	C005	C007	C1016	C081
C050	C035	C025	C028	C047	C012	C042	C032	C044	C009	C033	C1017	C082
C053	C036	C026	ME004-A	C049	C075	C054	C051	C073	C010	C040	C015	C083
C057	C070	C031	C038	C059	C086	C060	C064	C087	C011	C062	C018	C093
C058	C102	C091	C077	C061	C1004	ME009	C055	C1005	C013	ME007	C048	C098
C067	C080	C100	C101	C084	C1009	C072	C071	ME003	C017	C066	C068	C099
C069	C1001	C108	C1013	ME011	C1012	C076	C090	ME005	C029	C079	C078	C1006
C097	C103				ME008	C1011	C052	ME006	C041	C088		C105
C107	C1015								C095	C1008		

03 Keynote Speaker I



Prof. Weijia Jia

IEEE Fellow

BNU-UIC Institute of Artificial Intelligence and Future Networks, Beijing Normal University (Zhuhai) and BNU-HKBU United International College, China

09:10-09:55 Sept. 13 (Sun)

Speech Title: AI and Edge Computing (EC) for Smart City

Abstract: Edge computing, a key part of the up-to-date mobile networks technologies, promises to distribute cloud applications while providing more bandwidth and reducing latencies. In this talk, I will introduce the eco-system of AI techniques combined with edge computing for the applications of smart city and the key issues to make the AI working with EC.

Bio: Weijia Jia is currently a Chair Professor, Director of BNU-UIC Institute of Artificial Intelligence and Future Networks, Beijing Normal University (Zhuhai) and VP for Research of United International College. He has been the Chair Professor and the Deputy Director of State Key Laboratory of Internet of Things for Smart City at the University of Macau and the Zhiyuan Chair Professor at Shanghai Jiaotong University, China. He received BSc/MSc from Central South University, China in 82/84 and Master of Applied Sci./PhD from Polytechnic Faculty of Mons, Belgium in 92/93, respectively, all in computer science. For 93-95, he joined German National Research Center for Information Science (GMD) in Bonn (St. Augustine) as a research fellow. From 95-13, he worked in City University of Hong Kong as a professor. His contributions have been recognized as optimal network routing and deployment; vertex cover; anycast and QoS routing, and sensors networking; knowledge relation extractions; NLP and edge computing. He has over 500 publications in the prestige international journals/conferences and research books and book chapters. He has received the best product awards from the International Science & Tech. Expo (Shenzhen) in 2011/2012 and the 1st Prize of Scientific Research Awards from the Ministry of Education of China in 2017 (list 2). He has served as area editor for various prestige international journals, chair and PC member/keynote speaker for many top international conferences. He is the Fellow of IEEE and the Distinguished Member of CCF.

03 Keynote *Speaker II*



Prof. Zhongxiang Shen

IEEE Fellow, Nanyang
Technological University,
Singapore

09:55-10:40 Sept. 13 (Sun)

Speech Title: Design of Compact and Wide-Band Antennas for Modern Communication Systems

Abstract: Recent years have witnessed the growing demand for more wireless connectivity and services. This has posed a big challenge for antenna engineers, which is to design wide-band or multiband antennas with very small footprint. The paradox of achieving wide-band operation while retaining a compact antenna size appears difficult to resolve. This talk takes a careful look at this contradicting challenge and proposes several strategies to address this paradox. First, we review the fundamental concepts for achieving wide-band operation of an antenna. We then introduce techniques for effectively miniaturizing an antenna's size while maintaining its wide-band operation. After that, we present a number of practical examples to demonstrate the design of compact and yet wide-band antennas.

Bio: Zhongxiang Shen received the B. Eng. degree from the University of Electronic Science and Technology of China, Chengdu, China, in 1987, the M. S. degree from Southeast University, Nanjing, China, in 1990, and the PhD degree from the University of Waterloo, Waterloo, Ontario, Canada, in 1997, all in electrical engineering. From 1990 to 1994, he was with Nanjing University of Aeronautics and Astronautics, China. He was with Com Dev Ltd., Cambridge, Canada, as an Advanced Member of Technical Staff in 1997. He spent six months each in 1998, first with the Gordon McKay Laboratory, Harvard University, Cambridge, MA, and then with the Radiation Laboratory, the University of Michigan, Ann Arbor, MI, as a Postdoctoral Fellow. In Jan. 1999, he joined Nanyang Technological University, Singapore, as an assistant professor, where he is currently a Full Professor in the School of Electrical and Electronic Engineering. His research interests include the design of small and planar antennas for various wireless communication systems, analysis and design of frequency-selective structures and absorbers, hybrid numerical techniques for modeling RF/microwave components and antennas. He has authored more than 200 journal papers (among them 120 were published in IEEE Journals) and also presented more than 180 conference papers.

03 Keynote *Speaker III*



Prof. Feifei Gao

IEEE Fellow, Tsinghua
University, China

11:00-11:45 Sept. 13 (Sun)

Speech Title: Deep Learning for Physical Layer Communications: An Attempt towards 6G

Abstract: Merging artificial intelligence in to the system design has appeared as a new trend in wireless communications areas and has been deemed as one of the 6G technologies. In this talk, we will present how to apply the deep neural network (DNN) for various aspects of physical layer communications design, including the channel estimation, channel prediction, channel feedback, data detection, and beamforming, etc. We will also present a promising new approach that is driven by both the communications data and the communication models. It will be seen that the DNN can be used to enhance the performance of the existing technologies once there is model mismatch. More interestingly, we will show that applying DNN can deal with the conventionally unsolvable problems, thanks to the universal approximation capability of DNN. With the well-defined propagation model in communication areas, we also attempt to explain the DNN under the scenario of channel estimation and reach a strong conclusion that DNN can always provide the asymptotically optimal channel estimations. In all, DNN is shown to be a very powerful tool for communications and would make the communications protocols more intelligently. Nevertheless, as a new born stuff, one should carefully select suitable scenarios for applying DNN rather than simply spreading it everywhere.

Bio: Feifei Gao received the B.Eng. degree from Xi'an Jiaotong University, China in 2002, the M.Sc. degree from McMaster University, Canada in 2004, and the Ph.D. degree from National University of Singapore in 2007. He was a Research Fellow with the Institute for Infocomm Research (I2R), A*STAR, Singapore in 2008 and an Assistant Professor with the School of Engineering and Science, Jacobs University, Bremen, Germany from 2009 to 2010. Prof. Gao's research interest include signal processing for communications, array signal processing, convex optimizations, and artificial intelligence assisted communications. He has authored/ coauthored more than 150 refereed IEEE journal papers and more than 150 IEEE conference proceeding papers that are cited more than 8000 times in Google Scholar.

04 *Parallel Sessions*–Instruction



01

No-Show Policy

A paper not presented or presented by a non-author without prior written approval by the Conference TPC will be removed from the final conference proceedings before uploading to IEEE Xplore.

No refund will be approved to authors of those papers.



02

Duration of Presentation

A 15-minute report online, 2-3 min for question & answer is included.

Presenter's certificate will be sent out by email, normally a week after the meeting.



03

Report File

One out of three

- i. PowerPoint file
- ii. PDF file
- iii. Pre-recorded video

Please join the meeting at least 10min before your session starts and get your presentation prepared beforehand.



04

“Best Presentation” Award

It will be selected from each session by the session chair.

Please visit our official website a week after the meeting for the updates.

The presenter will receive a certificate of “Best Presentation”.

Parallel Session 1

Session 1: Pattern Recognition and Computer Vision

Session Chair:

Time: 13:30-15:45 Sept.13 | Room A

Time	Paper ID	Title & Presenters
13:30-13:45	C034	Reduce sEMG channels for Hand Gesture Recognition Yali Qu , Shandong University of Science and Technology, China
13:45-14:00	C050	Real-Time Abnormal Event Detection in the Compressed Domain of CCTV Systems by LDA Model Abdou Khadre DIOP , Alioune DIOP university, Senegal
14:00-14:15	C053	A Robust Matching Algorithm for Shape Recognition Based on Geometric Consistency Wei Wang , National University of Defense Technology, China
14:15-14:30	C057	Sparse Aperture Three-dimensional Reconstruction of Precession Target Based on Compressed Sensing Xingyu He , Air Force Engineering University, China
14:30-14:45	C058	A Robust Traffic Scene Recognition Algorithm Based on Deep Learning and Markov Localization Deyang Liu , Xi'an Jiaotong University, China
14:45-15:00	C067	Facial Expression Recognition Based on Sobel Operator and Improved CNN-SVM Sirui Liu , South China Normal University, China
15:00-15:15	C069	A Computer Vision Aided Beamforming Scheme with EM Exposure Control in Outdoor LOS Scenarios Tianqi Xiang , Beijing University of Posts and Telecommunications, China
15:15-15:30	C097	Measuring Similarity in CCTV Systems for a Real-time Assessment of Traffic Jams Abdou Khadre Diop , Alioune DIOP university, Senegal
15:30-15:45	C107	Visual Tracking Based On Matching Cascade Jialin Wang , Shandong University at Weihai, China

Parallel Session 2

Session 2: Signal Acquisition and Analysis

Session Chair: Prof. Tianshu Qu, Peking University, China

Time: 13:30-15:45 Sept.13 | Room B

Time	Paper ID	Title & Presenters
13:30-13:45	C030	A Robust Residual Echo Suppression Algorithm Even During Double Talk Bingxiao Fang , Beijing Sabine Technologies Co., Ltd, China
13:45-14:00	C035	A Digital Modulation Recognition Method Based on Uniform Linear Array Yang Yangqiang , College of Information and Communication, National University of Defense Technology, China
14:00-14:15	C036	Analysis of Crosstalk and Noise Limitation in a WDM Network with MWSF Based Limited Wavelength Interchange Optical Cross Connect Munira Haque , Military Institute of Science and Technology (MIST), Bangladesh
14:15-14:30	C070	A Time-domain Unsupervised Learning Based Sound Source Localization Method Tianshu Qu , Peking University, China
14:30-14:45	C102	A Novel Parameter Estimation Scheme for Noncooperative Binary Offset Carrier Modulated Signals Yongfeng Wu , Harbin Engineering University, China
14:45-15:00	C080	A Novel Demodulation Network for Binary Partial Response CPM Signals Qihao Peng , Chongqing University, China
15:00-15:15	C1001	Demystifying the Rumbling Noise Generated from the Elevator Machine Room Alex Shi , Shanghai High School International Division, China
15:15-15:30	C103	An Improved Complex-valued FastICA Algorithm for Jamming Signals Sorting In Beidou Navigation Satellite System Guangshun Xie , Harbin Engineering University, China
15:30-15:45	C1015	Application of VMD in Fault Diagnosis for Rotor-Bearing System with Rub-Impact Xin Xia , Shanghai University of Electric Power, China

Parallel Session 3

Session 3: Digital Image Analysis and Methods

Session Chair: Dr. Bo Liu, Northwest China Research Institute of Electronics Equipment, China

Time: 16:20-18:05 Sept. 13 | Room A

Time	Paper ID	Title & Presenters
16:20-16:35	C016	A MR Image Denoising Algorithm based on Dictionary Learning with Minimax Concave Penalty Jianhao Tang , Guangdong University of Technology, China
16:35-16:50	C025	An Optical-to-SAR Transformation Method for SAR Ship Image Augmentation Luan Shenshen , Institute of Spacecraft System Engineering, China
16:50-17:05	C026	Robust Compressed Sensing based on Correntropy and Smoothly Clipped Absolute Deviation Penalty Le Gao , University of Electronic Science and Technology of China, China
17:05-17:20	C031	Geometry-based Completed Local Binary Pattern for Texture Image Classification Qiqi Kou , China University of Mining and Technology, China
17:20-17:35	C091	A Hybrid Model Based on Inception Network and Conditional Random Fields for SAR Image Segmentation Yinyin Jiang , Xidian University, China
17:35-17:50	C100	A Super Resolution Method for Remote Sensing Images Based on Cascaded Conditional Wasserstein GANs Bo Liu , Northwest China Research Institute of Electronics Equipment, China
17:50-18:05	C108	Welding Wires Centerline Detection Method Based on Image Gradient Segmentation Zeyu Yang , Huaqiao University, China

Parallel Session 4

Session 4: Target Detection

Session Chair:

Time: 16:20-18:05 Sept.13 | Room B

Time	Paper ID	Title & Presenters
16:20-16:35	C002	Metro Pedestrian Detection Based on Mask R-CNN and Spatial-temporal Feature Guochen Sheng , Tongji University, China
16:35-16:50	C028	Fast TLAM: High-precision Fine Grain Smoking Behavior Detection Network Zhang Yang , Beijing key laboratory of information service engineering, China
16:50-17:05	ME004-A	Highly Simplified Architecture for Text Detection and Recognition from Natural Scene Deepak Rai , Tokai University, Japan
17:05-17:20	C038	The Night Flame Detection Algorithm Based On Sequential Frame Difference Le Ma , Wuhan Textile University, China
17:20-17:35	C077	A Low-complexity Steered Minimum Variance Beamforming Algorithm and Its Application on Weak-target Detection Zhu Daizhu , Shanghai Marine Electronic Equipment Research Institute, China
17:35-17:50	C101	Defect Straw Inspection Method Based on Machine Vision Ying Zhu , Southeast University, China
17:50-18:05	C1013	Anti-Fatigue and Collision Avoidance Systems for Intelligent Vehicles with Ultrasonic and Li-Fi Sensors Yujie Li , Chongqing foreign language school, China

Special Session Part A

Special Session: Underwater Acoustics, Underwater Signal Processing and Marine Engineering (Part A)
Session Chair: Dr. Wen Zhang & Dr. Yanqun Wu, National University of Defense Technology, China
Time: 09:00-10:45 Sept. 14 | Room A

Time	Paper ID	Title & Presenters
09:00-09:15 Invited Speech	C1016	Underwater Target Detection Based on Machine Learning Wen Zhang , National University of Defense Technology, China
09:15-09:30 Invited Speech	C1017	Geoacoustic inversion based on matched impulse response processing for moving source Yanqun Wu , National University of Defense Technology, China
09-30-09:45	C015	Experimental Results of Maritime Target Detection Based on SVM Classifier Song Jie , Naval Aviation University, China
09:45-10:00	C018	Frequency-Difference Matched Field Processing for Broadband Source Localization With One Hydrophone in Shallow Ocean Environment Yonggang Lin , National University of Defense Technology, China
10:00-10:15	C048	Signal Processing Used for Underwater Acoustic Positioning and Communication Integrated System Chengcai Lv , Chinese Academy of Sciences, China
10:15-10:30	C068	Vector Sound Field Calculation for Horizontal-variant Ocean Environment Mei Sun , Taishan University, China
10:30-10:45	C078	A DOA Estimation Algorithm for the Vertical Line Array of Vector Hydrophone Based on Data Fusion Method Yan Liang , National University of Defense Technology, China

Parallel Session 5

Session 5: Wireless Communication and Satellite Engineering
Session Chair: Dr. Faris A. Almalki, Taif University, Saudi Arabia
Time: 09:00-10:45 Sept.14 | Room B

Time	Paper ID	Title & Presenters
09:00-09:15	C014	A Spectrum Sensing Algorithm to Improve Detection Rates in Cognitive Radio Systems Jiahe Guo , Changchun University of Science and Technology, China
09:15-09:30	C047	A Survey on Replay Attack Prevention in Vehicular Ad hoc Networks (VANETs) Mahmood A. Al-shareeda , Universiti Sains Malaysia (USM), Malaysia
09-30-09:45	C049	Analysis on the Influence of BeiDou Satellite Pseudorange Bias on Positioning Lei Li , National University of Defense Technology, China
09:45-10:00	C059	Utilizing Drone for Food Quality and Safety Detection using Wireless Sensors Faris A. Almalki , Taif University, Saudi Arabia
10:00-10:15	C061	Research on Near-far Effect and Anti-impact Noise Interference Pseudo-code Sequence Blind Estimation Algorithm in Pseudo Satellite System Jinpeng Gao , Guilin University of Electronic Technology, China
10:15-10:30	C084	Research on Campus Network Based on QoS Technology Jiahao Xue , Anhui Institute of Information Technology, China
10:30-10:45	ME011	Design and Simulation-based Parametric Studies of a Compact Ultra-wide Band Antenna for Wireless Capsule Endoscopy (WCE) System at Inside Body Environment Tareq Mohammad Faruqi , City University-Bangladesh, Bangladesh

Special Session Part B

Special Session: Underwater Acoustics, Underwater Signal Processing and Marine Engineering (Part B)
Session Chair: Dr. Wen Zhang & Dr. Yanqun Wu, National University of Defense Technology, China
Time: 11:00-13:00 Sept. 14 | Room A

Time	Paper ID	Title & Presenters
11:00-11:15	C081	Intercomparison between the satellite and Drifter observed sea surface temperature in East/Japan Sea Shiyao Chen , National University of Defense Technology, China
11:15-11:30	C082	Evaluation of multi-model current data in the East/Japan Sea Haodi Wang , National University of Defense Technology, China
11:30-11:45	C083	Application of the Sparse Low-rank Model in Denoising of Underwater Acoustic Signal Yaowen Wu , Yunnan Minzu University, China
11:45-12:00	C093	Real-time Signal Acquisition Algorithm and Optimization for DSSS Broadband Underwater Acoustic Positioning Fan Shang , National University of Defense Technology, China
12:00-12:15	C098	An Optimization Method for Sound Speed Profile Inversion Using Empirical Orthogonal Function Analysis Chen Liu , National University of Defense Technology, China
12:15-12:30	C099	Numerical Study of Acoustic Propagation Characteristics in the Multi-scale Seafloor Random Media Kaifeng Han , National University of Defense Technology, China
12:30-12:45	C1006	Sound Speed Profile and Geoacoustic Parameters Estimation Xiaofeng Zhao , National University of Defense Technology, China
12:45-13:00	C105	Passive Source Ranging Using Residual Neural Network With One Hydrophone in Shallow Water Yonggang Lin , National University of Defense Technology, China

Parallel Session 6

Session 6: Electronic and Communication Engineering

Session Chair: Assoc. Prof. Jun Hu, Harbin Engineering University Harbin, China & Beijing Institute of Control Engineering Beijing, China

Time: 11:00-13:00 Sept.14 | Room B

Time	Paper ID	Title & Presenters
11:00-11:15	C003	Network Traffic Forecasting Based on Logistic Iterative Regression Model Yuanbiao Xue , Tianjin University, China
11:15-11:30	C012	Compound Model of Navigation Interference Recognition Zhen Xu , Xidian University, China
11:30-11:45	C075	A method of Missile-borne Forward-looking Compound Angle Measurement Honghua Chi , Shanghai Jiao Tong University, China
11:45-12:00	C086	ADS-B system based on SDN and ISIS Min Du , Anhui Institute of Information Technology, China
12:00-12:15	C1004	A Fabry-Perot interferometer demodulation method based on correlation detection Jun Hu , Harbin Engineering University Harbin, China & Beijing Institute of Control Engineering Beijing, China
12:15-12:30	C1009	Directional Modulation-Enabled Secure Transmission with Intelligent Reflecting Surface Liangling Lai , Fuzhou University, China
12:30-12:45	C1012	DNN-Based Decoder for Four-Dimensional Modulation Superposition NOMA Meng Li , Nanjing University of Science and Technology, China
12:45-13:00	ME008	An Innovative Method for Hybrid Renewable Energy Controlling Strategy using Artificial Techniques Jewel Sikder Joy , Chittagong University of Engineering & Technology, Bangladesh

Parallel Session 7

Session 7: Image Processing and Application

Session Chair:

Time: 14:00-16:00 Sept. 14 | Room A

Time	Paper ID	Title & Presenters
14:00-14:15	C024	An Intra Complexity Reduction Algorithm for Quality Scalable SHVC Fukang Wang , Chongqing University of Posts and Telecommunications, School of Automation, China
14:15-14:30	C042	Axisymmetric Extended Target Tracking Using Gaussian Process Qinlei Li , Xidian University, China
14:30-14:45	C054	24-point Game Based on BP Neural Network Jing Wu , University of Electronic Science and Technology of China, China
14:45-15:00	C060	Land Cover Classification of Huixian Wetland Based on SAR and Optical Image Fusion Yu Xiao , Guilin University of Electronic Technology, China
15:00-15:15	ME009	Investigation of Detection Characteristics of Finger Pressure and Touch Area and Their Application to Pre-Classifier in Writer Verification Yohei Masegi , Tottori University, Japan
15:15-15:30	C072	Anti Spatial Aliasing HOA Encoding Method based on Aliasing Projection Matrix Jing Lin , Peking University, China
15:30-15:45	C076	A Reversible Meaningful Image Encryption Scheme Based on Block Compressive Sensing Liya Zhu , Chang'an University, China
15:45-16:00	C1011	Index Modulation Based on Four-Dimensional Spherical Code Jing Qu , Nanjing University of Science and Technology, China

Parallel Session 8

Session 8: Modern Speech Analysis and Processing Technology

Session Chair:

Time: 14:00-16:00 Sept.14 | Room B

Time	Paper ID	Title & Presenters
14:00-14:15	C027	Optimal Vowels Measurements for Obstructive Sleep Apnea Detection Using Speech Signals Kang-Gao Pang , Guangdong University of Technology, China
14:15-14:30	C032	Spoken Language Identification with Deep Temporal Neural Network and Multi-levels Discriminative Cues Linjia Sun , Beijing Language and Culture University, China
14:30-14:45	C051	Mandarin singing synthesis based on Generative Adversarial Network Yun Zhou , Northwest Normal University, China
14:45-15:00	C064	Speech Emotion Recognition based on Interactive Convolutional Neural Network Huihui Cheng , South China Normal University, China
15:00-15:15	C055	End-to-End Low-Resource Speech Recognition with a Deep CNN-LSTM Encoder Weizhe Wang , Northwest Normal University, China
15:15-15:30	C071	Sonar echo signal processing based on Convolution Blind source separation Yan Zhang , Shandong University of Science and Technology, China
15:30-15:45	C090	Bone-Conducted Speech to Air-Conducted Speech Conversion Based on Cycle-Consistent Adversarial Networks Qing Pan , Anhui University, China
15:45-16:00	C052	Simple Data Augmented Transformer End-To-End Tibetan Speech Recognition Xiaodong Yang , Northwest Normal University, China

Parallel Session 9

Session 9: Computer Science and Data Engineering

Session Chair: Assoc. Prof. Chao-Hsien Hsieh, Qufu Normal University, China

Time: 16:20-18:20 Sept. 14 | Room A

Time	Paper ID	Title & Presenters
16:20-16:35	C006	Fault Tolerant Model for Redundant System Based on Health Assessment Tao Wang , Peking University, China
16:35-16:50	C044	Development of Laravel Digital Platform Based on MVC Design Pattern for Complicated Data Structure-Take the Bible for Example Chao-Hsien Hsieh , Qufu Normal University, China
16:50-17:05	C073	A Scheme for RAID-6 Scaling Based on N-code Yu Hu , Qinghai Normal University, China
17:05-17:20	C087	Research on Rapid extraction of Android Backup Data based on UI-Automator Qian Luo , The Third Research Institute of Public Security, China
17:20-17:35	C1005	Construction of Word Level Tibetan Lip Reading Dataset Hao Zeng , Northwest Normal University, China
17:35-17:50	ME003	Analysis on the E-Learning Method in Malaysia with AHP-VIKOR Model Lam Weng Siew , Universiti Tunku Abdul Rahman, Malaysia
17:50-18:05	ME005	Segmenting Informal Words in Thai Language Using Minimum Text Units and Conditional Random Field Kannikar Paripremkul , National Institute of Development Administration (NIDA), Thailand
18:05-18:20	ME006	Generating Test Scripts for Web-Based Applications Pantakarn Sriwichainan , Chulalongkorn University, Thailand

Parallel Session 10

Session 10: Communication Principle and Technology

Session Chair:

Time: 16:20-18:35 Sept.14 | Room B

Time	Paper ID	Title & Presenters
16:20-16:35	C005	A Grouping Adaptive MIMO-OFDM Modulation Method for PLC Guocheng Li , North China Electric Power University, China
16:35-16:50	C009	RS-LDPC Concatenated Coding for NAND Flash Memory: Designs and Reduction of Short Cycles Weidong Zhang , National Space Science Center, Chinese Academy of Sciences, China
16:50-17:05	C010	Research on Indoor Positioning Algorithm Based on Neighborhood Partitioning Wan Xiang , South China Normal University, China
17:05-17:20	C011	SimNet: Simplified Deep Neural Networks for OFDM Channel Estimation Zeyu Tan , Southeast University, China
17:20-17:35	C013	Piecewise Fitting Technology of Group Delay Difference Based on Fourier Decomposition Fengyi Wang , National University of Defense Science and Technology, China
17:35-17:50	C017	An Efficient Correction Method of Direction Finding in Phased Array Reconnaissance System Zhang Shengfeng , The 723 Institute of CSIC, China
17:50-18:05	C029	Joint User Selection and GMD-Based Hybrid Beamforming for Generalized Spatial Modulation Aided Millimeter-wave Massive MIMO Systems Taissir Y. Elganimi , University of Tripoli, Libya
18:05-18:20	C041	Millimeter-Wave Massive MIMO Channel Estimation in Relay Environment Zhenghong Liu , Communication University of China, China
18:20-18:35	C095	Evaluation of Channel Coding Techniques for Massive Machine-Type Communication in 5G Cellular Network Khan Muhammad Huseen , Nanjing University of Science and Technology, China

Parallel Session 11

Session 11: Signal Detection and Filtering Technology

Session Chair:

Time: 18:30-20:45 Sept. 14 | Room A

Time	Paper ID	Title & Presenters
18:30-18:45	C007	Target Tracking of Radar Seeker Based on Converted Measurement Kalman Filter Shi Wen , The 9th Design Department of China Aerospace Science and Industry Corporation, China
18:45-19:00	C033	Analysis of Class E Power Amplifier With Shunt Filter under Different Duty Cycles Zaijun Hua , Hohai University, China
19:00-19:15	C040	A Novel Clutter Covariance Matrix Reconstruction Method for Airborne STA Mingxin Liu , University of Electronic Science and Technology of China, China
19:15-19:30	C062	Correlation Filter-based Object Tracking Algorithms Kewei Sun , Guilin University of Electronic Technology, China
19:30-19:45	ME007	Rotating Machine Fault Detection based on Fuzzy Logic and Improved Adaptive Filter Md Saiful Islam , Chittagong University of Engineering and Technology, Bangladesh
19:45-20:00	C066	Analysis of Boundary Effect on Signal Detection in Unwrapped Phase Noise Yanmei Zhan , Chongqing University of Posts and Telecommunications, China
20:00-20:15	C079	Learning-Based Signal Detection for OFDM Systems with I/Q Imbalance Jiaying Wang , Chongqing University, China
20:15-20:30	C088	M-Estimation-Based Robust Kalman Filter Algorithm for Three-Dimensional AoA Target Tracking Yuexin Zhao , Army Engineering University, China
20:30-20:45	C1008	An Improved Particle Filter Based on UKF and Weight Optimization Zhao Hui , Graduate School of Space Engineering University, Beijing 101416, China

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