

DAY1

Date	Wednesday Jun. 14th					
8:00-9:00	Registration					
Location	Plenary Session 1 (Indigo Grand Ballroom) Moderator: Peter Siebert, VP Conference, IEEE BTS					
9:00-9:10	Opening Ceremony, IEEE BTS President Paul Shulins					
9:10-9:20	Opening ceremony, Prof. Ping Zhang's Speech					
9:20-9:40	Group Photo					
9:40-10:00	Keynote Speech: Dr. Weiliang Xie					
Location	Indigo Grand Ballroom	Amber 1	Amber 3	Amber 5	Corridor	Cafe25
10:10-10:25					Cafe Break	
10:30-12:00	Session A1	Session A2	Session A3	Session A4		
12:00-13:30						Lunch&Break
13:30-14:20					Poster Session P1&P2	
14:30-16:00	Session A5	Session A6	Session A7	Session A8		
16:00-16:20					Cafe Break	
16:30-17:30			BTS YP Workshop		Poster Session P3&P4	
17:00-18:00	BTS meeting					
18:30-20:00						VIP Dinner

DAY2

Date	Thursday Jun. 15th					
8:00-9:00	Registration					
Location	Plenary Session 2 (Indigo Grand Ballroom) Moderator: Peng Yu, BMSB2023 TPC Chair/BUPT					
9:00-9:10	Daily Opening Remarks and Announcement					
9:10-9:40	Keynote Speech: Prof. Pablo Angueira					
9:40-10:10	Keynote Speech: Prof. Sung-Ik Park					
Location	Indigo Grand Ballroom	Amber 1	Amber 3	Amber 5	Corridor	Cafe25
10:10-10:25					Cafe Break	
10:30-12:00	Session B1	Session B2	Session B3	Session B4		
12:00-13:30						Lunch&Break
13:30-14:20					Poster Session P5&P6	
14:30-16:00	Session B5	Session B6	Session B7	Session B8		
16:00-16:20					Cafe Break	
16:30-17:30				Poster Session P7	Poster Session P8&P9	
17:00-18:00						
18:30-20:00	Banquet					

DAY3

Date	Friday Jun. 16th					
8:00-9:00	Registration					
Location	Plenary Session 3(Indigo Grand Ballroom) Moderator: Yiyao Wu, IEEE BTS/CRC Canada					
9:00-9:10	Daily Opening Remarks and Announcement					
9:10-9:40	BMSB2023 Technical Program Committee 2023 Report and BMSB2024 Announcement					
9:40-10:10	Keynote Speech: Mr. Qingjun Zeng					
Location	Indigo Grand Ballroom	Amber 1	Amber 3	Amber 5	Corridor	Cafe25
10:10-10:25					Cafe Break	
10:30-12:00	Session C1	Session C2	Session C3	Session C4		
12:00-13:30						Lunch&Break
13:30-14:20					Poster Session P10&P11	
14:30-16:00	Session C5	Session C6	Session C7	Session C8		
16:00-16:20					Cafe Break	
16:30-17:30	Closing ceremony					
17:00-18:00						
18:30-20:00						

Oral and Poster Sessions Title:

Oral Session	Session A1: Multimedia Service, Quality and Content-I	Session A2: PHY Layer Signal Processing	Session A3: Multimedia Networking-I	Session A4: Multimedia Security
Oral Session	Session A5: Multimedia Service, Quality and Content-II	Session A6: Multimedia Distribution-I	Session A7: Multimedia Broadcasting	Session A8: Multimedia Networking-II
Poster Session	Poster Session P1: Multimedia Service, Quality and Content-I	Poster Session P2: Multimedia Service, Quality and Content-II	Poster Session P3: PHY Layer Signal Processing, Intelligent Reflective Surfaces, Channel Coding and Modulation	Poster Session P4: Multimedia Distribution and Multimedia Broadcasting

Oral Session	Session B1: Broadband Services and Applications-I	Session B2: Broadband Services and Applications-II	Session B3: Video Coding	Session B4: 5G Multimedia & Broadcasting
Oral Session	Session B5: IoT & New Media	Session B6: Video Processing and Sreeaming	Session B7: Next Generation TV	Session B8: Intelligent Reflective Surfaces
Poster Session	Poster Session P5: Multimedia Networking and Multimedia Security	Poster Session P6: Multimedia Networking and Multimedia Security	Poster Session P7: Broadband Services and Applications	Poster Session P8: Resource Allocation & Access and IoT & New Media

Oral Session	Session C1: Channel Coding and Modulation	Session C2: MIMO & mmWave	Session C3: Unmanned Aerial Vehicle (UAV)	Session C4: AI and next generation systems
Oral Session	Session C5: Resource Allocation and Access-I	Session C6: Image Processing and Applications	Session C7: Resource Allocation and Access-II	Session C8: Technologies beyond 5G
Poster Session	Poster Session P9: 5G Multimedia and Broadcasting	Poster Session P10: Data/Imag/Video Processing	Poster Session P11: Unmanned Aerial Vehicle (UAV), AI, Next Generation Systems and Technologies beyond 5G	

Room Location:

1st Floor:	Cafe 25				
3rd Floor:	Indigo GrandBallroom	Amber 1	Amber 3	Amber 5	corridor

Oral Sessions		
Session A1: Multimedia Service, Quality and Content-I		
Session Chairs: Peng Yu, BUPT, China; Shih Yu Chang, San Jose State U, USA		
358	Delivering Multimedia Services in LEO satellite NTN Supported by Backward and Frontward ISL during Feeder Link Switch-Over	Federica Rinaldi, Monica Calatafimi, Sara Pizzi, Antonella Molinaro and Giuseppe Araniti
1218	Performance Evaluation of 5G MBS for Terrestrial Broadcasting Scenarios	Seok-Ki Ahn, Sungjun Ahn, Sesh Simha, Mark Aitken, Anindya Saha, Prashant Maru, Parag Naik and Sung-Ik Park
6990	Storage Management Function Deployment Approach for Edge-Node-Based Service-Oriented Network	Xuan Huang, Jiaying Zong, Haitao Liu and Yang Liu
7172	Novel Personalized Multimedia Recommendation Systems Using Tensor Singular-Value-Decomposition	Shih Yu Chang, Hsiao-Chun Wu, Kun Yan, Xinjia Chen and Yiyang Wu
8844	Data-free Distillation with Evolutionary Pseudo Data for Text Classification	Zongshuai Qi and Yiyang Xiong
8929	Conversational Subjective Tests Based on Video-telephony Platform	Jose Joskowicz, Mengying Liu, Rafael Sotelo, Alejandra Armendariz and Lei Yang
Session A2: PHY Layer Signal Processing		
Session Chairs: Tao Hong, Beihang University, China; Sungjun Ahn, ETRI, Korea		
3865	Expectation Propagation Based Signal Detection for MIMO-OFDM with Inter-Carrier Interference	Zeliang Ou and Hongwen Yang
3958	Robust Bluetooth RF-Fingerprint Identifier Using Wavelet Scattering Network	Xiao Yan, Yiyun Chen, Qian Wang, Hsiao-Chun Wu and Yiyang Wu
8960	A Proposal for Quality Evaluation Method of Ultra-high Order QAM Signal	Yuki Hirabayashi, Shingo Asakura and Kohei Kambara
9248	IC and Signal Detection based on LSTM for FTN Signaling-based Digital Twin Synchronization System in Multipath Channel	Myung-Sun Baek, Euisuk Jung, Young Soo Park and Yong-Tae Lee
3753	Power budget analysis including PAPR reduction techniques and power amplifier consumption for DVB-T2 and ATSC 3.0	Khaled Tahkoubit, Hmaied Shaiek, Christophe Alexandre, Salim Faci and Daniel Roviras
Session A3: Multimedia Networking-I		
Session Chairs: Lei Feng, BUPT, China; Neng Ye, BIT, China		
421	Fault Management Platform based on Knowledge Graph in Network Slicing Environment	Detai Pan, Yunzhou Dong, Minglu Qi, Qiuqia Fu, Zhengdong Lin, Guanliang Chen, Peng Lin and Yingkun Liao
1614	Multi-party Cooperative Network Fault Management Mechanism based on Federated Learning	Yunzhou Dong, Detai Pan, Jingze Li, Qiuqia Fu, Minglu Qi, Zhengdong Lin, Peng Lin and Yingkun Liao
3824	Microservice-based Fault Management Platform and Mechanism in Power Communication Network	Zhongmiao Kang, Zanhong Wu, Peiming Zhang, Donghai Huang and Chang Liu
6178	Edge Fusion of Intelligent Industrial Park Based on MatrixOne and Pravega	Jingwei Yan, Yitong Liu, Shuqi Qin, Yun Shen, Yu Teng and Hongwen Yang
8328	New Data Network Architecture: From Reactive Post-collecting to Intelligent Proactive Pre-sensing	Pengyu Li and Yanxia Xing
8397	Research of Telemetry Communication Technology Based on TTE Time Triggered Ethernet	Wang Baohua, Han Shuai, Zhang Jingang, Wu Jiayi and Meng Weixiao
Session A4: Multimedia Security		

Session Chairs: Ruisheng Shi, BUPT, China; Stefan Poslad, QMUL, UK		
2345	Uncompressed 8K-video-transmission System for Remote Production Secured by Post-quantum Cryptography	Takuro Yamaguchi, Naohiro Kimura, Yasuhiro Mochida, Kohei Mizuno, Koichi Takasugi, Sakae Chikara, Tsunekazu Saito and Daisuke Shirai
3586	Blockchain Enabled Trustworthy Management Scheme for Network Co-Construction and Sharing	Bei Li, Tian Xiao, Xiaomeng Zhu, Fuchang Li, Xueqin Jia, Xi Guo, Anshun Zhou, Mingde Huo, Lexi Xu and Guanghai Liu
5581	An IPv6 based Identity Authentication Scheme for IoT Devices in 5G Private Network	Cong Li, Jibin Sun, Yihao Sun and Chongfeng Xie
7635	Localization Information based Secret Key Generation in Chain and Hybrid Topology based Wireless Mobile Network to secure Multimedia Data	Junghwan Kim, Aditi Vyas and Qiang Wu
7918	PHY Security in MIMOME Keyhole Channels	Xujie Zang, Hao Xu, Chongjun Ouyang and Hongwen Yang
8106	Secure D2D Communications in 6G-oriented Networks for Multimedia eHealth Applications	Chiara Suraci, Giuseppe Marrara, Antonella Molinaro and Giuseppe Araniti
Session A5: Multimedia Service, Quality and Content-II		
Session Chairs: Junye Zhang, BUPT, China; Marta Fernandez, U. Basque Country, Spain		
399	Adaptive Light field contrast enhancement using efficient feature extraction	Xiangyan Guo, Chun Zhao, Yongqiang Cheng, Motong Xu and Zhongyun Yuan
1653	A design of edge distributed video analysis system based on serverless computing service	Yutong Wang, Mingchuan Yang, Peng Ding, Yun Shen, Xiaohou Shi and Meiling Dai
3791	Development of ROUTE/DASH flow analyzer	Matheus Andrade Santana, George Henrique Maranhão Garcia de Oliveira, Allan Seiti Sassaqui Chaubet, Rodrigo Admir Vaz and Cristiano Akamine
4234	Energy Saving Architecture based on Android TV in a Smart Home Environment	Alessandro Floris, Simone Porcu, Luigi Atzori, Mauro Fadda, Matteo Anedda, Cristinel Gavrilă, Vlad Popescu and Daniele Giusto
4979	Impacts of Update Frequency to User Experience in Collaborative Virtual Environments	Duc Nguyen, Takara Shibasaki and Manato Yaginuma
5913	MBMS-based Multi-node 5G Broadcast Performance Assessment	Alvaro Gabilondo, Brais Ares, Jorge Arroyo-Giganto and Luis Pérez Roca
9797	A Machine Learning-based xAPP for 5G O-RAN to Mitigate Co-tier Interference and Improve QoE for Various Services in a HetNet Environment	Devanshu Anand, Mohammed Amine Togou and Gabriel-Miro Muntean
Session A6: Multimedia Distribution-I		
Session Chairs: Yunlong Lu, BJTU, China; Sungho Jeon, KBS, Korea		
120	QoS splitting mechanism for UE-to-UE multi hops	Jing Jia, Heng Nie, Xuyang Yao, Yanxia Xing and Yang Liu
4135	Research and design of broadband intelligent internet for cloud-network integration	Yunpeng Xie, Jing Tang, Xiaoting Ma, Bo Lei and Jiacong Li
6514	FEBBR: A Fairness-Enhanced Approach for BBR Congestion Control	Huijun Yuan, Yi Han, Yi Zhong, Mingxi Liao, Zhenhui Yuan and Gabriel-Miro Muntean
7242	Dynamic Selection Mechanism of Access Strategies in Integrated Satellite-Terrestrial Network	Wen Qi, Heng Wang, Xu Xia, Chengli Mei, Yang Liu and Yanxia Xing

7870	Waveform Design of Integrated Communication and Navigation based on Orthogonal Time Frequency Space	Xingyu Hou, Huai Yang, Xiaojun Jing and Junsheng Mu
8711	A Hierarchy-based Dynamic Routing Protocol for LoRa Mesh Networks	Liyuan Feng, Haoyuan Yu and Min Jia
Session A7: Multimedia Broadcasting		
Session Chairs: Shuai Han, HIT, China; Seokki Ahn, ETRI, Korea		
2578	5G Link-Level Simulator for Multicast/Broadcast Services	Ernesto Fontes Pupo, Claudia Carballo Gonzalez, Eneko Iradier, Jon Montalban and Maurizio Murrioni
3561	Preliminary Evaluation of a Software-based Release 17 5MBS prototype	Carlos Barjau, Borja Iñesta, David Gomez-Barquero, Pousali Charkaborty, Hemant Zope and Marius Corici
4770	Hybrid Terrestrial-Airborne Connectivity for Unicast/Broadcast Services Beyond 5G	Claudia Carballo Gonzalez, Ernesto Fontes Pupo, Jon Montalban, Sara Pizzi, Eneko Iradier and Maurizio Murrioni
6079	Non-Orthogonal Broadcast and Unicast Joint Transmission for multi-satellite joint communication	Shuai Han, Zhiqiang Li, Shiji Wang and Xiaoge Huang
8612	Fast Convergence Joint Optimization of PAPR Reduction and Digital Predistortion in the Next-Generation Broadcasting Systems	Sri Satish Krishna Chaitanya Bulusu, Praneeth Susarla, Hmaied Shaiek, Daniel Roviras and Olli Silvén
Session A8: Multimedia Networking-II		
Session Chairs: Fei Qi, China Telecom, China; Shuangli Wu, CAS, China		
1912	Federated Learning Model Training Mechanism with Edge Cloud Collaboration for services in smart cities	Dan Liu, Enfang Cui, Yun Shen, Peng Ding and Zhichao Zhang
4024	Research on Multi-operator Inter-network Roaming Technology	Pingping Lin, Jinyang Yu and Zhirong Zhang
5608	Overview of cloud computing deployment mode and technology development trend	Yan Li, Weibo Zhao, Yue Su, Wei Li and Changqing Yuan
6209	RMS: Real-time Motion Segmentation over Internet of Vehicles	Lei Zhan, Kai Hu, Longhao Zou, Zhenhui Yuan and Gabriel-Miro Muntean
8137	Competition and Convergence of Satellite and Terrestrial Networks	Dong Zhao, Yankun Li, Hong Chen and Yue Liu
8337	A new network infrastructure architecture arising from the multimedia service evolution	Jing Tang, Fujia Liu, Xiaoting Ma, Bo Lei and Yunpeng Xie
Session B1: Broadband Services and Applications-II		
Session Chairs: Ying Wang, BUPT, China; Peter Siebert, IEEE BTS, Switzerland		
2130	Development of PC Application Program for a Thermoelectrically Cooled CCD Detector	Yuchen He, Xu He, Tao Hong and Zhihua Chen
2455	Research on Speech-based Digital Human Driving System Based on Unreal Engine	Lai Wei, Yutong Wang and Dongdong Li
6008	Improved MAPPO-based Collaborative Computing Offloading Algorithm in Broadband Mobile Internet	Hao Hu, Yang Yang, Yanpeng Guo, Zhipeng Gao and Lanlan Rui
6757	Design and Implementation of Blockchain-based Anonymous Electronic Voting System	Yi Li, Yuzhao Li, Tao Hong and Zhihua Chen
7530	Forward Modeling of the Triaxial Induction Logging Tool in Layered Anisotropic Formations	Gaoyang Zhu, Muzhi Gao and Youli Yao
7762	Adaptive Live Streaming for Multi-user Access with Fairness Guarantee	Chang Liu, Jiaoyang Yin and Yiling Xu

Session B2: Broadband Services and Applications-II		
Session Chairs: Bo Yin, BISTU, China; Fanqin Zhou, BUPT, China		
835	BIM Integrated Management Model for Full Process Engineering Consultation	Yang Yu, Mei Rong and Liwei Sun
1906	Application of 5G End-to-End Network Slicing in Transportation Field	Xiaoyin Zhao
4343	Indoor Dual-indicator Precision Localization Network based on Multitask Learning	Ran An, Zexuan Jing, Quan Zhou and Junsheng Mu
9218	Power grid local communication service isolation technology based on WLAN network slice	Chunyan An, Di Zhai, Cheng Zhong, Linlin Zhang and Sujie Shao
Session B3: Video Coding		
Session Chairs: Siya Xu, BUPT, China; Yoshiaki Shishikui, Meiji U, Japan		
1307	Thumbnail Generation from Sampled IP Packets for Uncompressed Video-transmission Monitoring	Takuro Yamaguchi, Yasuhiro Mochida, Daisuke Shirai and Kohei Mizuno
2268	Adaptive Search Range for Template Matching in Plenoptic Video Coding under Microlens Constraints	Vinh Van Duong, Thuc Nguyen Huu, Jonghoon Yim and Byeungwoo Jeon
5366	Lagrange multiplier adaptation at CTU-level for VVC low-delay hierarchical coding	Hongwei Guo, Ce Zhu, Yipeng Liu, Xu Yang and Lei Luo
7892	Latitude-Guided Temporally Dependent Rate-Distortion Optimization For Panoramic Video Coding	Jingjing Hou, Hongwei Guo, Yipeng Liu, Lanlan Feng, Xu Yang, Lei Luo and Ce Zhu
9612	An Enhanced Video Compression Framework based on Rescaling Networks	Zhiyu Chen and Li Chen
6944	Prediction of Video Quality Degradation on a Cloud Gaming Platform	Alex Amaral, Alejandra Armendariz, Santiago Erramuspe, Jose Joskowicz and Mengying Liu
Session B4: 5G Multimedia & Broadcasting		
Session Chairs: Yang Yang, BUPT, China; Dazhi He, Shanghai Jiaotong U., China		
290	Context-Aware Adaptive Prefetching for DASH Streaming over 5G Networks	Juncal Uriol, Inhar Yeregui, Álvaro Gabilondo, Roberto Viola, Pablo Angueira and Jon Montalbán
1750	A Study on LDM for Mixed Broadcast-Broadband Service Delivery in 5G	Yu Xue, Wei Li, Yuxiao Zhai, Liang Zhang, Zhihong Hong, Elvino Sousa and Yiyan Wu
5384	Measurements and analysis of 5G mobile communications signals in outdoor environments	Marta Fernandez, David Guerra, Unai Gil and Ivan Peña
7111	Research of NTN Technical Scheme Based on 5G Network	Zhirong Zhang, Han Guo and Weiliang Xie
7220	Evaluation of LTE-based 5G Terrestrial Broadcasting Systems for Mobile Reception Based on Average Mutual Information Analysis	Zhitong He, Kewu Peng, Boran Sun, Dmitry Tkachenko, Eugene Popov, Sergey Makarov and Jian Song
Session B5: IoT & New Media		
Session Chairs: Shaoyong Guo, BUPT, China; Qingtao Zeng, BIGC, China		
282	Fault Prediction of IoT Terminals Based on Improved ResNet and BiLSTM	Yonghua Huo, Ying Liu, Wei Huang, Chengwen Fan and Yang Yang
2501	Blockchain-aided Distributed Device-free Wireless Sensing with IoT devices in Edge Network	Yanxi Xie, Ziyue Li, Chao Li, Yonghui Zhu and Hao Zhang
2784	Federated Learning Technology in Serial Topology for IoT Networks	Jianhang Sheng, Jian Xiong and Bo Liu
6711	Dynamic Clustering-Based Time Synchronization for PLC-Assisted Power IoT in Smart Park	Jiapeng Xue, Sunxuan Zhang, Yutong Wang, Xiaomei Chen, Bin Liao and Zhenyu Zhou

8174	Design and Implementation of Intelligent Car Control System for Goods Transportation Based on OpenCV	Zhicheng Zhang and Baoju Liu
9266	A Field Test for Maximizing Coverage through Multi-Hop D2D LoRa Transmission	Angelo Tropeano, Chiara Suraci, Giuseppe Marrara, Domenico Battaglia, Antonella Molinaro and Giuseppe Araniti
Session B6: Video Processing and Streaming		
Session Chairs: Junsheng Mu, BUPT, China; Byeungwoo Jeon, Sungkyunkwan U., Korea		
409	Lightweight Multi-Role Recommendation System in TV live streaming	Yue Zhu, Zhenghao Li, Lili Sun and Li Gao
4828	User Profile-Based Viewport Prediction Using Federated Learning in Real-Time 360-Degree Video Streaming	Syed Mohammad Haseeb Ul Hassan, Attracta Brennan, Gabriel-Miro Muntean and Jennifer McManis
5220	Deployment strategy of edge computing server for 3D video transmission in digital twin cities	Dan Liu, Peng Ding, Yun Shen, Zhichao Zhang and Dongdong Li
9107	Video Fog Detection Based on Dynamic Texture Analysis	Fei Wang, Manyu Wang, Han Li, Zongkai Yang, Youbin Song and Zhihua Chen
9138	An Adaptive Video Streaming Delivery Structure based on Mobile Edge Intelligent	Yun Shen, Peng Ding and Zhichao Zhang
Session B7: Next Generation TV		
Session Chairs: Shujie Yang, BUPT, China; Jon Montalban, U. Basque Country, Spain		
2499	ATSC 3.0 ITCN Prototype with Remote Studio	Rufino Cabrera, Jon Montalban, Eneko Iradier, Pablo Angueira, Orlando Landrove, Sung-Ik Park, Sunhyoung Kwon, Namho Hur, Yiyan Wu, Wei Li, Orest Sushko, Mihai Albu, Willie Perez, Zhihong Hong and Liang Zhang
5446	Adaptive Modification of Fading Channel Models for Terrestrial SFN Environments	Sungjun Ahn, Seok-Ki Ahn, Sung-Ik Park, Jeongchang Kim, Sungho Jeon, Mats Ek, Sesh Simha, Mark Aitken, Anindya Saha, Prashant Maru, Parag Naig and Joonhyuk Kang
7371	Remote Management Controller for a DTT ATSC 3.0 Station	Orlando Landrove, Rufino Cabrera, Eneko Iradier, Pablo Angueira and Jon Montalban
8400	IDP as an alternative method to reduce the PAPR of DVB-T2 and ATSC 3.0 broadcast systems	Khaled Tahkoubit, Hmaied Shaiek, Christophe Alexandre, Salim Faci and Daniel Roviras
9519	Long-term Time Series Data from ATSC 3.0 Single Frequency Broadcast Network Operation: Anomaly Patterns by Measurement Metrics	Sungho Jeon, Seong-Man Min, Dawoon Chung, Kangsoo Kim, Jahoon Ku, Sunhyoung Kwon and Sung-Ik Park
Session B8: Intelligent Reflective Surfaces		
Session Chairs: Chaowei Wang, BUPT, China; Qiang Liu, SDUST, China		
2162	Deep learning-based radar-assisted beam prediction	Yifu Liu, Quan Zhou and Jing Xiaojun
2212	Efficient Video SoftCast For Intelligent Reflective Surfaces Assisted Symbiotic Radio Network	Junjie Wu, Lei Luo, Ce Zhu and Hongwei Guo
4261	Operator Perspective: How to Choose between the RIS and Full/Half-Duplex Relay	Yuetian Zhou, Fan Nan and Lei Gao
5467	Deployment mode and optimization system for RIS-aided high-speed rail communication	Pu Song, Sen Xu and Lilei Zhu

7377	Reconfigurable Intelligent Surface Deployment and Orientation in Beyond 5G Multicast Networks	Gianluca Brancati, Ernesto Fontes Pupo, Olga Chukhno, Nadezhda Chukhno, Maurizio Murrone and Giuseppe Araniti
Session C1: Channel Coding and Modulation		
Session Chairs: Yin Xu, Shanghai Jiaotong U., China; Sung-Ik Park, ETRI, Korea		
3770	OWC channel measurement testbed building in indoor environment with M-CAP modulation	Ziqi Liu, Xun Zhang and Bastien Béchadergue
4244	Automatic Modulation Classification of Frequency-Hopping Signals Using High-Dimensional Phase Diagrams	Qibo Chen, Kun Yan, Hsiao-Chun Wu, Shih Yu Chang, Xiao Yan, Yiyan Wu and Haonan Chang
5788	Adaptive Quantized and Normalized MSA and Its Application for DTMB-A LDPC Codes	Xia An, Chao Zhang, Kewu Peng, Zhitong He and Jian Song
8523	The GC-LDPC coded modulation	Kun Zhu and Hongwen Yang
9208	Optimization of VR Video Wireless Transmission Based on Fountain Code	Xinyu Ning, Kaicong Tian, Yun Shen, Yitong Liu and Hongwen Yang
9501	Improving ITCN Channel Estimation using AI-based Techniques	Iñigo Bilbao, Justine Gairaud, Eneko Iradier, Guillaume Ferré, Jon Montalban and Pablo Angueira
Session C2: MIMO & mmWave		
Session Chairs: Yue Zhang, Jiujiu, China; Jeongchang Kim, Korea Maritime U, Korea		
1101	A High Isolation Duplex Antenna for 79GHz FMCW Radar System	Hu Linshuai, Cheng Xiaohe, Li Shaohang, Wang Chaowei, Yu Junsheng and Yao Yuan
3826	Deep learning-based hybrid beamforming for multi-user millimeter wave networks	Haojia Zhang, Shuai Han and Xinxing Lin
5527	Joint Subcarrier and Power Allocation Design Based on Radar SNR Ratio in Integrated Radar and Communication System	Longyu Hu, Junsheng Mu, Xiaojun Jing and Jia Zhu
6845	Condensation Symbol-Level MIMO Precoding for Non-Uniform Constellation in ITCN	Fan Hong, Hanjiang Hong, Yin Xu, Liangyuan Zhao, Yiyan Wu, Xiaowu Ou, Dazhi He and Wenjun Zhang
Session C3: Unmanned Aerial Vehicle (UAV)		
Session Chairs: Jian Xiong, Shanghai Jiaotong U., China; Yikun Zhao, BUPT, China		
841	Analysis of interference from UAV system to adjacent radio location services	Lei Liu, Jie Wang and Bingxin Wang
3546	Integrated Sensing and Communication Optimization for Self-Powered UAV-Assisted Corona Detection in High-Voltage Substations	Zijia Yao, Zhao Wang, Zhifeng Zhang, Yiling Shu, Haijun Liao and Zhenyu Zhou
6060	Offloading Strategy for UAV-Assisted Mobile Edge Computing with Computation Rate Maximization	Jiali Nie, Junsheng Mu, Quan Zhou and Xiaojun Jing
7415	Regional Scanning Strategy of UAV Cluster Platform for Mobile Emergency Broadcasting	Lingfeng Guo, Jian Xiong, Jun Zhou and Bo Liu
9896	On Collaborative Air-Ground Replenishment of Combined UAVs for Live Broadcast	Chenshi Ding, Can Yang, Jian Xiong and Peng Cheng
Session C4: AI and next generation systems		
Session Chairs: Sujie Shao, BUPT, China; Marta Fernandez, U. Basque Country, Spain		
885	Unknown Channel End-to-End Learning of Communication System With Residual DCGAN	Daifu Yan, Min Jia, Guo Qing and Xuemai Gu
4003	A Machine Learning Based Computing Node Selection Algorithm	Min Wei, Bo Lei and Xiaoyao Huang

7461	Radar Aided Active Prediction Based On Deep Learning	Zhanghua Chen and Jianxiao Xie
8161	Machine Learning Classification for Video Cleaning	Brian Yao and Wei Li
8502	CoSAR: Multi-Robot Collaborative Semantic Mapping over Wireless Networks	Kai Hu, Lei Zhan, Longhao Zou, Yi Han, Ting Bi and Gabriel-Miro Muntean
9392	Research on 3D Drivable Digital Human Generation System	Qihong Zheng, Peng Ding, Yun Shen, Jinghan Wang and Zhichao Zhang
Session C5: Resource Allocation and Access-I		
Session Chairs: Peng Yu, BUPT, China; Eneko Iradier, U. Basque Country, Spain		
135	Multi-Agent Deep Reinforcement Learning for Task Offloading in Vehicle Edge Computing	Bingxin Wang, Lei Liu and Jie Wang
1590	Joint Optimization Computation Offloading and Resource Allocation for LEO Satellite with Edge Computing	Jian Wu, Min Jia, Qing Guo and Xuemai Gu
4902	Joint resource allocation and scheduling optimization for XR traffic	Jincan Xin, Sen Xu, Hua Xu and Hua Zhang
5302	A DRL Resource Allocation for Downlink NOMA Multi-beam Satellite Communications	Yuhan Liu, Chaowei Wang and Danhao Deng
6486	A Low Complexity ML Assisted Multi-knapsack-based Approach for User Association and Resource Allocation in 5G HetNets	Bharat Agarwal, Mohammed Amine Togou, Marco Ruffini and Gabriel-Miro Muntean
8202	Multi-level intelligent collaborative computing mechanism based on DDQN for smart highways	Sujie Shao, Lili Su, Ruijun Chai, Shaoyong Guo, Siya Xu and Juntao Zheng
Session C6: Image Processing and Applications		
Session Chairs: Zhuqing Jiang, BUPT, China; Hongwei Guo, Honghe University, China		
5493	A method of mask wearing state detection based on YOLOv5	Lin Du, Manyu Wang, Zongkai Yang, Ke Zhang, Yanhan Li and Zhihua Chen
6049	Bridge the Vision Gap From Field to Command: A Deep Learning Network Enhancing Illumination and Details	Zhuqing Jiang, Chang Liu, Ya'Nan Wang, Aidong Men, Haiying Wang and Haiyong Luo
6082	The Recognition of Remote Sensing Image based on Federated Generation Adversarial Network	Jingyu Wang, Zhijie Yao, Xiaojun Jing and Junsheng Mu
6974	A GA-based image enhancement approach for autonomous driving at night	Xiangyong Chen, Ping Han, Yanqing Huang, Yi Han, Yi Zhong, Zhuo Li, Zhenhui Yuan and Gabriel-Miro Muntean
9657	Brightness-Adjustable Low-Light Image Enhancement via Noise-Only Training Scheme	Yongning Xu, Yun Zhou and Zhuqing Jiang
Session C7: Resource Allocation and Access-II		
Session Chairs: Mengjun Yin, Inspur, China; Junye Zhang, BUPT, China		
4578	Deep Reinforcement Learning Based on Actor-Critic for Task Offloading in Vehicle Edge Computing	Bingxin Wang, Lei Liu and Jie Wang
5230	Adaptive Resource Allocation Based on Scoring Mechanism and Priority for 3D rendering	Qihong Zheng, Jinghan Wang, Yun Shen, Peng Ding and Zhichao Zhang
5321	Resource Allocation Mechanism of Federated Learning System for Highly Dynamic and Changeable Businesses	Jiahui Guo, Siya Xu and Xuesong Qiu

6800	Multi-Layer Monitoring at the Edge for Vehicular Video Streaming: Field Trials	Inhar Yeregui, Roberto Viola, Juncal Uriol, Jasone Astorga, Pablo Angueira and Jon Montalban
6932	Task Value Aware Optimization of Routing for Computing Power Network	Xiaoyao Huang, Bo Lei, Min Wei, Guoliang Ji and Hang Lv
9500	Resource Allocation Using Deep Reinforcement Learning in GEO Multibeam Satellite System	Xinshi Chang, Chaowei Wang, Mingliang Pang, Ji Wang and Weidong Wang
Session C8: Technologies beyond 5G		
Session Chairs: Yu Xue, U. Toronto, Canada; Sung-Ik Park, ETRI, Korea		
2295	A DRL Enhanced Caching Based on Age of Information for 6G Mobile Edge Computation	Yuhan Liu, Danhao Deng and Chaowei Wang
2573	Deep Edge Node enables AI native toward 6G	Qingtian Wang, Yang Liu, Yanchao Wang, Yanxia Xing, Jiaying Zong and Haitao Liu
3650	Resource Pre-caching Strategy of Digital Twin System Based on Hierarchical MEC Architecture	Dan Liu, Yun Shen, Peng Ding, Ning Liu and Hengrui Zhou
4348	Analysis of 6G Space-Ground Integrated Network Architecture	Jie Wang, Xi Meng and Bingxin Wang
5751	The Architecture of Computing Power Network Towards Federated Learning: Paradigms and Perspectives	Jie Mei, Min Wei, Yukun Sun, Jiacong Li, Gefan Zhou and Xing Zhang
6534	GEO and LEO Collaborative Architecture Evolution in Future Integrated Satellite-Terrestrial Network	Heng Wang, Wen Qi, Xu Xia, Yang Liu, Yanxia Xing and Chengli Mei

Poster Sessions		
Poster Session P1: Multimedia Service, Quality and Content-I		
Poster Session P1 Chairs: Tao Hong, Beihang University, China; Honglin Fang, BUPT, China		
175	Research on the Application of Blockchain in Media Communication Copyright Management	Qing Feng, Jiang Chang and Zhongle Wu
568	Joint Task Offloading and Resource Allocation Based on Trading Mechanism	Wenjie Wang, Chaowei Wang and Weidong Wang
872	Protection Route Optimization for Multimedia Services	Zhicheng Li, Ying Wang, Baodian Liu, Lin Cong and Peng Yu
1447	Logical-Cluster-Based Personalized Federated Multi-Task Learning for Internet of Vehicles	Biao Zhang, Siya Xu, Xuesong Qiu and Jingyue Tian
1696	Efficient Human Rendering with Geometric and Semantic Priors	Jionghao Wang, Shuai Guo, Qiuwen Wang, Rong Xie and Li Song
4683	Research on key technologies of audiovisual media microservices and industry applications	Tao Jia, Xiangdong Deng and Peng Shang
7241	Collaborative Task Offloading Based on Scalable DAG in Cell-Free HetMEC Networks	Xi Lu, Xiaofei Yu, Chaowei Wang, Weidong Wang and Jun Zhen
9437	Quality of Experience Assessment for Free-viewpoint Video	Rongli Jia, Yuhong Zhang, Jun Xu, Wenjun Zhang, Li Song, Lin Li and Yanan Feng
9962	OLNC: Online Learning of Network Conditions for Adaptive Video Streaming	Chao Zhang, Jiaoyang Yin, Yiling Xu, Hao Chen, Xiaozhong Xu and Shan Liu
Poster Session P2: Multimedia Service, Quality and Content-II		
Poster Session P2 Chairs: Lei Feng, BUPT, China; Neng Ye, BIT, China		
577	The Recognition of Remote Sensing Image based on Federated Knowledge Distillation	Zhijie Yao, Jingyu Wang, Xiaojun Jing and Junsheng Mu
676	Virtual Network Fault Management Platform and Mechanism based on Big Data	Yan Wang, Yunzhou Dong, Guanliang Chen, Jingze Li, Zhengdong Lin, Peng Lin and Yingkun Liao
4477	Cost Minimization in Serverless Computing with Energy Harvesting SECs	Yunqi Li, Jing Liu, Bin Jiang, Changlin Yang and Qingtian Wang
5137	Research on Model and Simulation of Vehicle Network Based on LTE Technology	Xinyu Gai, Zhicheng Li, Yaqin Zhang, Shiqi Li, Guimin Meng and Lele Lv
7087	Cross Attention Scoring Function for Multimedia Domain Knowledge Graph Completion	Honglin Fang, Peng Yu, Ying Wang and Wenjing Li
7314	Research on the Content Label System of Radio & TV and Network Audiovisual Programmes	Jingyi Xue
7510	Quality Evaluation of Multimedia Service in Crowdsourcing Platform based on Evolutionary Game Theory	Rui Wang, Bo Yin, Xin Chen and Jingyue Tian
7768	Indoor/Outdoor Fusion Positioning Switching Scheme for Beidou and WiFi Technology Based on Deep Reinforcement Learning in MBMS	Qinghai Ou, Xiaoyi Jiang, Yanru Wang, Yue Liu, Xudong Wang, Lei Feng and Hui Liu
9274	Multimedia task scheduling based on improved PSO in cloud environment	Changqing Yuan, Yue Su, Ruihao Chen, Weibo Zhao, Wei Li, Yan Li and Liu Sang
Poster Session P3: PHY Layer Signal Processing, Intelligent Reflective Surfaces, Channel Coding and Modulation		
Poster Session P3 Chairs: Jian Xiong, Shanghai Jiaotong U., China; Pablo Angueira, U. Basque Country, Spain		

312	Development of Tunable Balanced Couplers in Balanced Antennas	Xiangguan Tan, Qingxin Xiang and Yuxia Zhang
700	A Downward Compatible Integrated Signal Technology for Navigation/Communication	Deyue Zou, Yangzhen Zhao, Liansheng He and Shuai Han
1673	Design of Tunable Couplers for Antenna Feed Network	Xiangguan Tan and Yuxia Zhang
1849	Joint Beamforming Design in RIS-BackCom Network	Junbo Qiao, Han Shuai and Sun Zeyang
2615	DoA Estimation based on Deep Learning in Low SNR	Zhonghui Zhao and Jianli Li
2899	End-to-End Learning for Free Space Optical Communication with BiLSTM-based Channel Model	Taoye Zhang, Lifang Zhang, Wenbin Chen, Meixia Fu, Pengsheng Zhou, Songyan Li and Danshi Wang
3036	A Novel Microfluidic-Metamaterial Biosenor for Liquid Detection	Dawei Jiang, Jianqin Deng, Lanchang Xing, Bin Wang, Linlin Qu, Muzhi Gao and Gaoyang Zhu
4262	Optimal Precoding Design for VLC MIMO-OFDM Systems in the Presence of Clipping Noise	Zhicong Xu and Jintao Wang
4470	Research on vulnerability mining of authentication protocol based on fuzzy simulation	Lele Lv, Zhi Feng, Wei Dong, Yunfei Zhao, Yunze Zhao and Xinyu Gai
4512	An Improved Tomlinson-Harashima Precoding Based on Matrix Decomposition for Faster-than-Nyquist Signaling	Weimin Kang
5079	DNN-Based Calibration Factor Estimation for Effective SINR Mapping in CQI Selection of 5G NR	Youngbin Go, Hyeongseok Kim, Kwon Seol, Jeongchang Kim, Sungik Park, Seokki Ahn and Namho Hur
9729	Radar-aided Beam Prediction based on SqueezeNet Network	Jianxiao Xie and Congzheng Hu
Poster Session P4: Multimedia Distribution & Multimedia Broadcasting		
Poster Session P4 Chairs: Peng Yu, BUPT, China; Haoyong Li, Shanghai Jiaotong U., China		
560	Service Usage reporting System for Optimal Transmission of Broadcasting Services in 5G-Broadcast Converged Networks	Hyun-Jeong Yim, Bo-Mi Lim, Hoiyoon Jung and Sung-Ik Park
2302	A Review of Multimedia Video Services based on Serverless Cloud Computing	Yue Su, Liu Sang, Weibo Zhao, Wei Li and Changqing Yuan
2848	On the PAPR of the LTE-Based 5G Terrestrial Broadcast System	Haoyang Li, Ning Yang, Yin Xu, Xiaowu Ou, Dazhi He and Yunfen Guan
3126	A New MATV system with integrated UHD and HD broadcasting: Implementation and Test Results	Haechan Kwon, Jae Hwi Bae, Young Su Kim, Jae Hyun Seo and Sung-Ik Park
3267	Opportunistic Data Offloading Based on RSU in Vehicular Delay-Tolerant Networks	Wenjie Wang, Tianyu Wang, Chaowei Wang and Weidong Wang
3908	4K/8K UHD HDR and HD SDR Simul-production and Simulcast Practice	Yan Li, Li Zhou, Bin Liu, Jinhui Ning, Qian Zhang and Huiming Wang
4078	System Design and Research of Future Broadcasting Service Based on Blockchain	Jinghan Wang, Wei Liang, Yan Liu, Weibo Gao, Jun Zhao and Qiuhong Zheng
4842	Cooperative Spectrum Sensing algorithm based on Federated Learning for Broadcasting Services	Jiawu Miao, Fangpei Zhang, Yuebo Li, Xiaojun Jing and Junsheng Mu
7417	DRL based Flexible LDM Scheme for Mixed Unicast-Broadcast Transmission in 5G	Ou Xiaowu, Yin Xu, Dazhi He, Yi-yan Wu, Haoyang Li and Wenjun Zhang
9159	Video Stream Caching Based on Digital Twin Cooperative Caching	Yaqi Song and Yun Shen
9362	An Enhanced LTE-based 5G Terrestrial Broadcast Receiver: FPGA Implement and Field Test	Ning Yang, Haoyang Li, Dazhi He, Yin Xu, Yunfeng Guan and Zongze Li

Poster Session P5: Multimedia Networking and Multimedia Security I**Poster Session P5 Chairs: Shuangli Wu, CAS, China; Fei Qi, China Telecom, China**

803	Efficient VNF-FG Scaling Algorithm for 5G Network Slices	Xuqing Chai, Ying Wang, Manjun Zhang and Lin Cong
1990	A Method to Improve the Performance of Network Data Analytics Function Based on Transfer Learning	Menghan Yu, Pengyu Li, Yanxia Xing and Yang Liu
3027	Fault Prediction in Electric Power Communication Network Based on Improved DenseNet	Peng Gao, Li Guan, Jiakai Hao, Ming Jin, Qian Chen, Yang Yang and Zhenying Qu
3399	Flow Preprocessing for Online Routing and Scheduling in Time-Sensitive Networks	Zehua Chen, Zhili Wang and Xingyu Chen
5462	Improved Swarm Learning with Differential Privacy for Radio Frequency Fingerprinting	Lei Zhang, Lei Feng, Yue Liu, Fanqin Zhou, Boyu Liu, Zheng Jia, Yanru Wang, Hui Liu and Wenjie Ma
5919	Collaborative D2D Cache System Based on SDN Network	Ting Wang, Hong Yang and Qi Li
6183	Integrated solution for industrial Internet based on edge computing	Jing Tang, Fujia Liu, Xiaoting Ma, Bo Lei and Yunpeng Xie
6216	Physical Layer Latency Analysis for 5G NR	Yong Zhao and Weiliang Xie
8564	Linkage Transformer: an Attention Based Neural Network for Multi-Cell Traffic Prediction	Zhenqian Wang, Meixia Fu, Qu Wang, Yifan Lu, Jiansheng Wu, Le Chen, Wanqing Guan, Wei Li and Jianquan Wang
9007	Computing Offloading Based on Deep Reinforcement Learning For Virtual Reality Scene	Yaqi Song and Yun Shen

Poster Session P6: Multimedia Networking and Multimedia Security II**Poster Session P6 Chairs: Junye Zhang, BUPT, China; Bo Yin, BISTU, China**

2544	Automated industrial crack inspection system based on edge-edge collaboration of multiple cameras and programmable logic controller	Fujia Liu, Jing Tang, Jianhong Yang and Hongsen Wang
5292	Service-Oriented Wireless Network Architecture and Edge Network Convergence Design	Jiaying Zong, Xuan Huang, Haitao Liu, Yang Liu, Qingtian Wang and Yanxia Xing
5830	Mobile Edge Computing Tasking Offloading Strategy in Cell-Free Massive MIMO with Graph Neural Network	Shiwei Li, Fangqing Tan and Qiang Liu
5928	Traffic Anomaly Detection for Smart Grid based on Hierarchical Spatial-Temporal Feature Learning	Guoli Feng, Ning Wang, Xinnan Ha, Xiaobo Li, Run Ma and Peng Lin
7895	Heterogeneous Low Altitude Platforms Deployment Strategy for Emergency Network	Mengjun Yin, Wei Lin, Shuai Wu, Xian Gao, Wenjing Li, Peng Yu and Lei Feng
8391	Physical Layer Security for Full Duplex Relay System	Ting Wang, Hong Yang and Qi Li
8871	Self-Organizing Temporal-Spatial Failures Awareness for Access Nodes under Dynamic Mobile Edge Networks	Yanbo Liu, Zhe Xiao, Honglin Fang, Yang Yang and Peng Yu
8888	Experience Estimation of Edge Cloud Network based on the Prediction of Data Volume	Ruitong Liu and Yiyang Xiong
9492	Design and Implementation of Smart Kitchen Safety System for Empty Nesters	Haopeng Geng and Baoju Liu
9838	Design and Analysis of a 6G Low-loss Metamaterial Circular Polarizer	Xiaoyin Zhao

Poster Session P7: Broadband Services and Applications**Poster Session P7 Chairs: Qingtao Zeng, BIGC, China; Fanqin Zhou, BUPT, China**

4305	Researching on Identification and Resolution of Data Assets	Xinchi Li and Xiaoqing Xia
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4847	A Closed-loop Operation and Maintenance Architecture based on Digital Twin for Electric Power Communication Networks	Yongjie Li, Yuqi Zhang, Yujing Zhao, Jizhao Lu and Jiaying Wang
5262	Multi-link Integrated Communication Terminals Deploying Method for Wide Coverage of 5G Integrated Power Communications Network	Hong Zhu, Wendi Wang, Chengling Jiang, Wenjie Ma, Zhiyi Li and Sujie Shao
5629	Broadcast Service Technology Empowered by Integrated Communication and Navigation	Huai Yang, Xingyu Hou, Xiaojun Jing and Junsheng Mu
6928	Big Data Collection and Building Material Price Estimation Based on Focused Web Crawler	Mei Rong, Shaolin Zhang and Erying Yi
6933	Application of Engineering Cost Database to Modern Power Plant Management	Jiang Hu, Yang Zhao and Erying Yi
7869	Researching on Cloud Service Architecture of Data Products	Xiaoqing Xia and Xinchu Li
8037	A Digital Collection Platform Architecture based on NFTs	Xiaoqing Xia, Xinchu Li and Hongpeng Chu
8350	Interference Compatibility Analysis between 3.5GHz ATG System and Satellite Fixed Service	Lei Liu, Bingxin Wang and Weiliang Xie
8707	Research on Spectrum Sharing Technology	Pingping Lin, Jinyang Yu and Yuetian Zhou
9727	An Intelligent Industrial Vision Scheme for Flexible Manufacturing Based on 5G Edge Cloud Collaboration	Yun Shen, Zhichao Zhang and Peng Ding
9859	Configurable Rule Engine for Industrial Data Flow Scenarios	Fangning Shi, Zhongli Na and Zhifeng Gao
Poster Session P8: Resource Allocation & Access and IoT & New Media		
Poster Session P8 Chairs: Qiang Liu, SDUST, China; Chaowei Wang, BUPT, China		
1805	Downlink Performance Enhancement of MIMO and HAPS as IMT Base Station	Yuetian Zhou, Xi Meng and Jie Wang
2660	Research on AI-assisted OTFS multi-access identification method	Yu Wang, Shuai Han, Qiang Xue and Xiaoyu Wang
2687	Quality-driven Multi-hop LoRa Link Optimization Mechanism for Differentiated Services in Power IoT	Zhiyi Li, Yuqi Wang, Cong Ye, Hongru Li, Zile Lei and Sujie Shao
4608	Bidirectional Risk Analysis and Warning Technology for Power Grid-Communication Network	Yang Wang, Duanyun Chen, Yuanchun Tang, Shuting Li, Juan Pan, Zhihui Wang and Ziyang Zhao
7321	A Deep Reinforcement Learning-based resource allocation mechanism for XR applications	Beining Feng
9040	An Delay minimum Allocation Method for Integrated Communication, Storage and Computing Resources in power Local integrated Network	Di Zhai, Cheng Zhong, Yang Lu, Jiajia Tang, Zhengpu Wang and Sujie Shao
9085	Energy-Efficient Content Caching Strategy in Cell-Free Massive MIMO Networks with Reinforcement Learning	Yuan Peng, Fangqing Tan and Qiang Liu
9123	Multi-hop LoRa Link optimized scheduling method for energy saving in Power IoT	Lin Sun, Cong Ye, Hongru Li, Zile Lei, Yuqi Wang and Zhengpu Wang
9342	Resource Allocation Based on Reinforcement Learning for Heterogeneous Air Network	Shuai Wu
Poster session P9: 5G Multimedia and Broadcasting		
Poster Session P9 Chairs: Xiaowu Ou, Shanghai Jiaotong U., China; Shujie Yang, BUPT, China		
3768	Media over 5G in Action – Target 2023 for 5G-MAG Reference Tools	Thomas Stockhammer, Daniel Silhavy, Jordi Gimenez, Richard Bradbury, Johann Mika, David Waring, Yiqing

		Cao, Shilin Ding and Kurt Krauss
3847	Service Function Service Chain Scheduling Method for Power Wide Coverage 5G Multi-link Converged Networks	Qinghai Ou, Yanru Wang, Hong Zhu, Wendi Wang, Lili Su and Ying Wang
4490	Research on 5G Base Station to Satellite Earth Station Interference and Mitigation Methods	Lei Liu, Xi Meng and Weiliang Xie
5312	Implementation and Performance Evaluation of Jointly Combined LDM and MIMO System Based on ATSC 3.0	Bo-mi Lim, Hoiyoon Jung, Haechan Kwon, Sung-Ik Park, Sungjun Ahn and Namho Hur
7432	Network Solutions and Trials of 5G Emergency Small Cell	Pingping Lin, Jinyang Yu and Weiliang Xie
9334	Research on 5G Network Evaluation Method Based on Perceptual Peer to Peer	Xiaomeng Zhu, Yuting Zheng, Bei Li, Yi Li, Yuchao Jin, Rui Xia, Lexi Xu, Zixiang Di and Xinzhou Cheng
9470	A Novel Small Data Transmission Scheme for UE Power Saving in 5G New Radio	Sen Xu
9562	Uplink Performance Enhancement of MIMO aid HAPS as IMT Base Station	Yuetian Zhou, Xi Meng and Lei Liu
9709	RB Resource Management and Control Policy for 5G Co-Construction and Sharing	Zhirong Zhang, Pingping Lin and Mingshuo Wei
9793	AI based 5G Resident Ratio Prediction for Multi-Frequency Heterogeneous Networks	Tian Xiao, Bei Li, Tao Huang, Lexi Xu, Chen Cheng, Zixiang Di, Yi Li and Yuting Zheng
9987	Multi-Crane Smart Sorting Control System based on 5G and Cloud PLC	Jiameng Jiang, Zhangchao Ma, Kaijun Wang, Meixia Fu, Bao An, Pengsheng Huang, Hongpeng Li, Le Chen and Jianquan Wang
Poster Session P10: Data/Imag/Video Processing		
Poster Session P10 Chairs: Ce Zhu, UESTC, China; Li Song, Shanghai Jiaotong U., China		
486	Research on 3D Object Reconstruction Based on Single-view RGB Image	QiuHong Zheng, Peng Ding, Yun Shen, Jinghan Wang and Zhichao Zhang
1944	Research on Fault Management System based on Artificial Intelligence in Data Network	Yunzhou Dong, Xinyu Wang, Fangyou Fu, Zhengdong Lin, Chaona Yin, Peng Lin and Yingkun Liao
2530	A Novel Direction Vector-based Coordinate Deduplication Algorithm in the Visual Sorting System with Cloud Programmable Logic Controller	Yifan Lu, Meixia Fu, Liang Hao, Zhangchao Ma, Lei Wang, Jiansheng Wu, Jing Peng, Zhenqian Wang and Jianquan Wang
3138	Blockchain-based High-reliability Recovery and Verification Mechanism for Power Data Storage Nodes	Zhongmiao Kang, Donghai Huang, Yubeng Bao, Zanhong Wu and Chang Liu
3362	Blockchain based data management technology for future intelligent network architecture	Hua Zhang
4474	A Method for Detecting Floating Objects on Water Based on Edge Computing	He Li, ShuaiPeng Yang, Jinjiang Liu, Honglin Fang, Zhumu Fu, Rui Zhang, Huimei Jia and Lianmeng Lv
4822	A Privacy-Preserved and Efficient Federated Learning Method Based on Important Data Selection	Xiaoyin Zhao
5649	A System of Data Assets Registration and Catalog Management	Xinchi Li and Xiaoqing Xia
Poster Session P11: Unmanned Aerial Vehicle (UAV), AI, Next Generation Systems and Technologies beyond 5G		
Poster Session P11 Chairs: Peng Yu, BUPT, China; Jian Song, Tsinghua U., China		
1956	6G Deterministic Network Technology Based on Hierarchical Reinforcement Learning Framework	Yanxia Xing, Luyuan Yang, Xinghong Hu, Chengli Mei, Heng Wang and Jinyan Li
2754	Enabling NR Cellular Networks for UAV: Introduction to the Interference and Mobility Issues	Hua Xu, Sen Xu, Jincan Xin and Hua Zhang

4337	A Preliminary Study of UAV Cyber Traffic Playback Based on SDN	Shang Ting Miao
4249	Energy-Efficient Multimedia Services with UAV-BS Intelligent Trajectory Planning for Emergency Communications in 6G Networks	Jingyue Tian, Fanqin Zhou, Peng Yu and Wenjing Li
5427	A Joint Offload and Deployment Optimization Solution for Aerial Platform Computing	Jie Wang, Lei Liu and Bingxin Wang
6956	Design of Rapid Estimation System for Civil Engineering Investment in Industrial Plant Construction	Jianbin Niu and Dong Zhao
7304	A Rapid Digital Estimation Model For Material in Industrial Construction	Dong Zhao, Hong Gao and Jianbin Niu
7710	Research on the Time Source Sinking Deployment Based on GNSS	Yalin Cao, Kunyi Xie, Lei Feng, Qinghai Ou, Yanru Wang and Yue Hou
8162	Feedback Constrained Interference Alignment Enabled by PCA Codebook Design for 6G Era	Xinshi Chang, Mingliang Pang and Chaowei Wang