

Date	Time	Session	Session Title	Paper #	Paper Title	Authors/Affil.	TrackChair ID
Monday, 20 June 2022	11:00-12:30	1A	Machine Learning1	1	A GAN-LSTM based AI Framework for 6G Wireless Channel Prediction	Zheao Li, National Mobile Communications Research Laborato	42651
Monday, 20 June 2022	11:00-12:30	1A	Machine Learning1	2	AI-Assisted Network Traffic Prediction Without Warm-Up Periods	Amin Bolakhrif, Department of Computer Science, KTH Royal I	77392
Monday, 20 June 2022	11:00-12:30	1A	Machine Learning1	3	Intra-RAN Online Distributed Reinforcement Learning For Uplink Power Control in 5G Cellular Networks	Jian Song, Radio Access Paris, Nokia Bell Labs, France Istvan Z.	90253
Monday, 20 June 2022	11:00-12:30	1A	Machine Learning1	4	Multi-Agent Deep Reinforcement Learning in Vehicular OCC	Amirul Islam, Computer Science and Electronic Engineering, U	53830
Monday, 20 June 2022	11:00-12:30	1A	Machine Learning1	5	Risk-Aware Multi-Armed Bandits for Vehicular Communications	Maximilian Wirth, Electrical Engineering and Information Tech	45215
Monday, 20 June 2022	11:00-12:30	1B	Estimation&Synchronization1	1	A Novel Pilot Design and Channel Estimation in 5G Multi-Numerology Systems	Hyunsoo Son, School of Electrical Engineering, Korea Advance	98909
Monday, 20 June 2022	11:00-12:30	1B	Estimation&Synchronization1	2	Attention Based Neural Networks for Wireless Channel Estimation	Dianxin Luan, SCHOOL OF ENGINEERING, Institute of Digital co	13559
Monday, 20 June 2022	11:00-12:30	1B	Estimation&Synchronization1	3	Learning-based Power Delay Profile Estimation for 5G NR via Advantage Actor-Critic (A2C)	Hyukjoon Kwon, SOC, Samsung Semiconductor, United States	54450
Monday, 20 June 2022	11:00-12:30	1B	Estimation&Synchronization1	4	Rayleigh Channel Statistics Estimation Using SINR Samples Under Single Interference	David Jia, Waveform Design, Thales SIX GTS France, France Xa	30751
Monday, 20 June 2022	11:00-12:30	1B	Estimation&Synchronization1	5	Recast Subspace Pursuit-based Channel Estimation for Hybrid Beamforming NarrowBand Millimeter-Wave Massive MIMO Systems	Olutayo Oyeyemi Oyerinde, Electrical and Information Enginee	39223
Monday, 20 June 2022	11:00-12:30	1C	AMMS1	1	Design and Evaluation of Optimum Receiver for Turbulent Underwater Optical Wireless Channel	Kenzo Yamada, Core Network Development, NTT DOCOMO, Ja	41755
Monday, 20 June 2022	11:00-12:30	1C	AMMS1	2	LoRa Based Indoor Localization	Dany Merhej, ISSAE-CNAM Liban Lebanese University , ISSAE-C	83412
Monday, 20 June 2022	11:00-12:30	1C	AMMS1	3	On the Performance of Handover Mechanisms for Non-Terrestrial Networks	Yusuf Islam Demir, Electrical and Electronic Engineering, Istant	84262
Monday, 20 June 2022	11:00-12:30	1C	AMMS1	4	Predictive Equalization for Underwater Optical Camera Communication	Asako Shigenawa, Computer and Information Sciences, Univer	15072
Monday, 20 June 2022	11:00-12:30	1C	AMMS1	5	UAV-Based FSO Communication Under Jamming	Isha Chauhan, Electrical Department, Indian Institute of Techn	39346
Monday, 20 June 2022	11:00-12:30	1D	IoT&IoV	1	Benefits of DCC Facilities in ITS-G5 Networks -First Simulated Results	Edmir Xhoxhi, Insitute for Communication Technology, Leibniz	31592
Monday, 20 June 2022	11:00-12:30	1D	IoT&IoV	2	Energy-Efficient Multi-Task Allocation for Antenna Array Empowered Vehicular Fog Computing	Xinlei Xie, School of Information and Electronics, Beijing Institu	88025
Monday, 20 June 2022	11:00-12:30	1D	IoT&IoV	3	Impact of Access Barring Schemes for Delay Tolerant MTC Devices on Energy Consumption	Julian Popp, Information Technology, Friedrich-Alexander Univ	10255
Monday, 20 June 2022	11:00-12:30	1D	IoT&IoV	4	Run-time Per-Class Routing of AVB Flows in In-Vehicle TSN via Composable Delay Analysis	Weijiang Kong, Electrical Engineering, Eindhoven University of	87774
Monday, 20 June 2022	11:00-12:30	1D	IoT&IoV	5	Trajectory Planning for Data Collection in Multi-UAV Assisted WSNs	Ilham Benmad, Computer Science, Université de Moncton, Car	99073
Monday, 20 June 2022	11:00-12:30	1E	Cooperative Systems	1	Adaptive and Stabilized Streaming for Edge-Assisted Connected Vehicles under Heterogeneous Computing Constraints	Rhoan Lee, Department of Computer Science and Engineering,	18546
Monday, 20 June 2022	11:00-12:30	1E	Cooperative Systems	2	Communication Outages Mitigation through Mutual Assistance for Cellular V2X-Based Platooning	Kyeongnam Park, Department of Computer Science and Engin	54090
Monday, 20 June 2022	11:00-12:30	1E	Cooperative Systems	3	Content Sharing in Pedestrian-based Micro Clouds	Marco Rapelli, Department of Control and Computer Engineer	13966
Monday, 20 June 2022	11:00-12:30	1E	Cooperative Systems	4	Performance analysis of adaptive K for weighted K-nearest neighbor based indoor positioning	Siyang LIU, Laboratory of Signal and System, Univercity Paris S	96203
Monday, 20 June 2022	11:00-12:30	1E	Cooperative Systems	5	Wireless-Powered Cooperative Key Generation for e-Health: A Reservoir Learning Approach	Mehdi Letafati, Electrical Engineering , Sharif University of Tec	17391
Monday, 20 June 2022	14:00-15:30	2A	RIS1	1	Machine Learning for IRS-Assisted MU-MIMO Communications with Estimated Channels	Zhizhou He, ICS, Unicersity of Surrey, United Kingdom Fabien	44324
Monday, 20 June 2022	14:00-15:30	2A	RIS1	2	On the Behavior of the Near-Field Propagation Matrix between two Antenna Arrays, with Applications to RIS-Based Over-the-Air Beamforming.	Krishan Kumar Tiwari, Communication and Information Theory	96972
Monday, 20 June 2022	14:00-15:30	2A	RIS1	3	Performance Analysis of IRS-assisted Backscatter Communications Under Hardware Imperfections	Ahmad Massud Tota Khel, Electrical and Electronic Engineering	17353
Monday, 20 June 2022	14:00-15:30	2A	RIS1	4	RIS-Assisted Vehicular Network with Direct Transmission over Double-Generalized Gamma Fading Channels	Vinay Kumar Chapala, EEE, BITS PILANI, India Arsalan Mallik, E	34590
Monday, 20 June 2022	14:00-15:30	2A	RIS1	5	Secrecy Capacity Maximization for a Hybrid Relay-RIS Scheme in mmWave MIMO Networks	Edson Egashira, CWC, University of Oulu, Finland Diana Pamel	27581
Monday, 20 June 2022	14:00-15:30	2B	Positioning1	1	An Interacting Multiple Model Estimator of LEO Satellite Clocks for Improved Positioning	Zaher Kassas, Mechanical and Aerospace Engineering, Univers	17464
Monday, 20 June 2022	14:00-15:30	2B	Positioning1	2	Distributed Network Formation for Moving Wireless Nodes with Limited Location Information	Veselin Rakocevic, Department of Engineering, City, University	90498
Monday, 20 June 2022	14:00-15:30	2B	Positioning1	3	Drone localization based on 3D-AoA signal measurements	Mehari Meles, Communications and Networking , Aalto univer	40797
Monday, 20 June 2022	14:00-15:30	2B	Positioning1	4	Indoor Positioning via Gradient Boosting Enhanced with Feature Augmentation using Deep Learning	Ashkan Goharfar, Computer Engineering and Information Tech	11473
Monday, 20 June 2022	14:00-15:30	2B	Positioning1	5	RAIL: Robust Acoustic Indoor Localization for Drones	Alireza Famili, ECE, Virginia Tech, United States Angelos Stavro	43182
Monday, 20 June 2022	14:00-15:30	2C	MIMO1	1	Deep Unfolding-based Detection for Quantized Massive MU-MIMO-OFDM Systems	Changjiang Liu, Institute for Integrated Micro and Nano System	76534
Monday, 20 June 2022	14:00-15:30	2C	MIMO1	2	Massive MIMO Codebook Design in Sub-6 GHz 5G NR	Ryan Dreifuerst, Electrical and Computer Engineering, The Uni	70907
Monday, 20 June 2022	14:00-15:30	2C	MIMO1	3	Measurement-Based Validation of Z3RO Precoder to Prevent Nonlinear Amplifier Distortion in Massive MIMO Systems	Thomas Feys, ESAT dramco, KU Leuven, Belgium Gilles Calleba	64920
Monday, 20 June 2022	14:00-15:30	2C	MIMO1	4	MIMO Hybrid Beamforming for Line-of-Sight Interference Channels	Benjamin Domae, Communications Division; Electrical and Cor	40638
Monday, 20 June 2022	14:00-15:30	2C	MIMO1	5	Performance of Limited Feedback for Best Companion Grouping in Multi-user MIMO System	Icheon Kim, System LSI, Samsung Electronics, South Korea Kw	99248
Monday, 20 June 2022	14:00-15:30	2D	VLC&Optical1	1	Adaptive Energy Saving Technique with Saturation Avoidance for Outdoor VLC	Antonio Costanzo, Lille, Université Gustave Eiffel, France Vale	88212
Monday, 20 June 2022	14:00-15:30	2D	VLC&Optical1	2	DarkSLAM: GAN-assisted Visual SLAM for Reliable Operation in Low-light Conditions	Alena Savinykh, ISR Laboratory, Skolkovo Institute of Science a	21893
Monday, 20 June 2022	14:00-15:30	2D	VLC&Optical1	3	Optical Wireless Transmissions over Multi-layer Underwater Channels with Generalized Gamma Fading	Suhrid Das, ECE, Jalpaiguri Government Engineering College, I	41003
Monday, 20 June 2022	14:00-15:30	2D	VLC&Optical1	4	Optimum LED semiangle and the receiver FOV selection for Indoor VLC System with Human Blockages	ANAND SINGH, ECE, IIIT Delhi, India ANAND SRIVASTAVA, ECE	92742
Monday, 20 June 2022	14:00-15:30	2D	VLC&Optical1	5	Simultaneous Data Transmission and Sensor Interrogation in a Fiber Optical Sensor Network	Jasmeet Singh, Department of Electrical Engineering and Comp	35159
Monday, 20 June 2022	14:00-15:30	2E	Equalization	1	Characterisation and Cancellation of Interference with Multiple Phase-coded FMCW Dual-Function RADAR Communication Systems	François De Saint Moulin, ICTEAM, UCLouvain, Belgium Claud	14985
Monday, 20 June 2022	14:00-15:30	2E	Equalization	2	Effective Equalization for Overlapped Chirp-based Communications Systems	Thuy Pham, Wireless Connectivity Group, Barkhausen Institut,	80966
Monday, 20 June 2022	14:00-15:30	2E	Equalization	3	Hybrid Multi-User Equalization and Analog Precoder for Uplink mmWave Cell Free System	Joumana Kassam, DETI, Universidade de Aveiro, nstituto de Te	24558
Monday, 20 June 2022	14:00-15:30	2E	Equalization	4	Inter-Numerology Interference Pre-Equalization for 5G Mixed-Numerology Communications	Bugra Çevikgibi, Electrical and Electronics Engineering, TOBB U	40710
Monday, 20 June 2022	14:00-15:30	2E	Equalization	5	On Estimating the Autoregressive Coefficients of Time-Varying Fading Channels	Julia Vinogradova, NAP, Ericsson Research, Finland Gabor Fod	46210
Monday, 20 June 2022	14:00-15:30	2F	EVVEIC1	1	A Framework for CAN Communication and Attack Simulation	Jo Laufenberg, Computer Science, University of Tuebingen, Ge	76837
Monday, 20 June 2022	14:00-15:30	2F	EVVEIC1	2	Empirical Evaluation of the Performance of Electric Vehicles for Taxi Operation	João Neves, Departamento de Ciência de Computadores, Univ	52947

Monday, 20 June 2022	14:00-15:30	2F	EVVEIC1	3	On the effectiveness of BSM communications in V2V emergency scenarios	Francesco Pollicino, Department of Engineering "Enzo Ferrari",	18888
Monday, 20 June 2022	14:00-15:30	2F	EVVEIC1	4	S-LDM: Server Local Dynamic Map for Vehicular Enhanced Collective Perception	Francesco Raviglione, Department of Electronics and Telecom	40347
Monday, 20 June 2022	14:00-15:30	2F	EVVEIC1	5	Traffic Flow Estimation using Machine Learning and 4G/5G Radio Frequency Counters	Forough Yaghoubi, GAIA, ERICSSON AB, Sweden Armin Catovi	12485
Monday, 20 June 2022	16:00-17:30	3A	NOMA1	1	Backscatter-Aided NOMA V2X Communication under Channel Estimation Errors	Wali Ullah Khan, SigCom, SnT, University of Luxembourg, Luxe	10963
Monday, 20 June 2022	16:00-17:30	3A	NOMA1	2	DNN-based Active User Detection for an NB-IoT Compatible Grant Free NOMA System	Praveen Kumar N, Electrical Engineering, IIT Dharwad, India N	38612
Monday, 20 June 2022	16:00-17:30	3A	NOMA1	3	Outage Probability of Indoor-outdoor C-NOMA Enabled UAV-Relay Over $\kappa\text{-}\mu$ Fading	ADEL ALQAHTANI, EEE, UNIVERSITY OF MANCHESTER & KING H	18454
Monday, 20 June 2022	16:00-17:30	3A	NOMA1	4	Transmit Beamforming Designs for SecureTransmission in MISO-NOMA Networks	yanbo zhang, College of Photonic and Electronic Engineering, F	31840
Monday, 20 June 2022	16:00-17:30	3A	NOMA1	5	Uplink Performance Analysis of Grant-Free NOMA Networks	Canjian Zheng, School of Electric and Information Engineering,	48778
Monday, 20 June 2022	16:00-17:30	3B	Radio Access	1	A Measurement Study on the Application-level Performance of NSA-NR	Lukas Prause, Institut für Kommunikationstechnik, Leibniz Uni	31294
Monday, 20 June 2022	16:00-17:30	3B	Radio Access	2	Analysis and Performance Evaluation of Mobility for Multi-Panel User Equipment in 5G Networks	Subhyal Bin Iqbal, Standardization and Research Lab, Nokia, G	10143
Monday, 20 June 2022	16:00-17:30	3B	Radio Access	3	On the Value of Context Awareness for Relay Activation in Beyond 5G Radio Access Networks	Jordi Perez-Romero, Signal Theory and Communications, Univ	79143
Monday, 20 June 2022	16:00-17:30	3B	Radio Access	4	Rethinking Buffer Status Estimation to Improve Radio Resource Utilization in Cellular Networks	Flavien Ronteix-Jacquet, Innovation, Orange, France Xavier La	62869
Monday, 20 June 2022	16:00-17:30	3B	Radio Access	5	Root Cause Analysis of Low Throughput Situations Using Boosting Algorithms and the TreeShap Analysis	Madalena Cilínio, Electrical and Computer Engineering, Institu	30549
Monday, 20 June 2022	16:00-17:30	3C	Mobile Networks	1	Benchmarking of Mobile Communications in High-Speed Scenarios: Active vs. Passive Modifications in High-Speed Trains	Sonja Tripkovic, Institute of Telecommunications, Vienna Univ	43853
Monday, 20 June 2022	16:00-17:30	3C	Mobile Networks	2	Energy- and Cost-Efficient Transmission Strategy in Networked UAV Control System with ADP Trajectory Tracking Control	Minkai Zhang, the Department of Electronics and Information	32929
Monday, 20 June 2022	16:00-17:30	3C	Mobile Networks	3	Less Complex Algorithm to Max-Min the Resource Allocation for Unmanned Aerial Vehicles Networks.	Hamzih Alsmadi, Electrical and Computer Engineering, Lakehe	71891
Monday, 20 June 2022	16:00-17:30	3C	Mobile Networks	4	Measurement of 60 GHz Communication Network and Ray Tracing Comparison for Intra-Wagon	Randy Verdecia-Peña, Signals, Systems, and Radiocommunicat	51569
Monday, 20 June 2022	16:00-17:30	3C	Mobile Networks	5	The epsilon-stable region analysis in dynamic downlink cellular networks	Qiong Liu, IETR, INSA Rennes, France Jean-yves Baudais, IETR,	40957
Monday, 20 June 2022	16:00-17:30	3D	Antennas	1	Antenna Array Configuration for Reliable Communications in Maritime Environments	Michiel Sandra, Electrical and Information Technology, Lund U	25486
Monday, 20 June 2022	16:00-17:30	3D	Antennas	2	Compressive-Sampling Spectrum Scanning with a Beamforming Receiver for Rapid, Directional, Wideband Signal Detection	Petar Barac, Electrical Engineering, Columbia University, Unite	15680
Monday, 20 June 2022	16:00-17:30	3D	Antennas	3	Enable SDRs for Real-Time MIMO Channel Sounding featuring Parallel Coherent Rx Channels	Daniel Stanko, Electronic Measurement and Signal Processing,	36362
Monday, 20 June 2022	16:00-17:30	3D	Antennas	4	Fast 5G Beam Tracking at The User Equipment with Analog Beamformer	Stefano Tomasin, Dep. of Information Engineering, University	79124
Monday, 20 June 2022	16:00-17:30	3D	Antennas	5	Field Study on Multi-Antenna Radio Technologies for Future Railway Communications at 1.9 GHz	Bernd Holfeld, Digitale Schiene Deutschland, DB Netz AG, Gerr	36952
Monday, 20 June 2022	16:00-17:30	3E	Satellite Communications	1	Area-Power Analysis of FFT Based DigitalBeamforming for GEO, MEO, and LEO Scenarios	Rakesh Palisetty, Interdisciplinary Centre for Security, Reliabili	20209
Monday, 20 June 2022	16:00-17:30	3E	Satellite Communications	2	Capacity Study for a 5G Satellite System to support Railway FRMCS Critical service over Europe	Tommaso Catuogno, Advanced Technologies, Thales Alenia Sp	66939
Monday, 20 June 2022	16:00-17:30	3E	Satellite Communications	3	How much can Sniffer Redundancy Improve Wi-Fi Traffic?	Mohammad Imran Syed, NPA, Sorbonne University - LIP6, Fran	22657
Monday, 20 June 2022	16:00-17:30	3E	Satellite Communications	4	Interference Suppression by Directivity Control Towards Frequency Sharing for Space-Air-Ground Integrated Networks in Internet of Things	Akinori Matsushita, Kato-Kawamoto laboratory, Tohoku Unive	48064
Monday, 20 June 2022	16:00-17:30	3E	Satellite Communications	5	Location-Based Handover Triggering for Low-Earth Orbit Satellite Networks	Enric Juan, Electronic Systems, Aalborg Universitet, Denmark I	38773
Tuesday, 21 June 2022	9:00-10:30	4A	Machine Learning2	1	Actor-Critic Scheduling for Path-Aware Air-to-Ground Multipath Multimedia Deliver	Achilles Machumilane, Information Engineering, University of I	82520
Tuesday, 21 June 2022	9:00-10:30	4A	Machine Learning2	2	Compression of Channel Coefficients with Neural Networks for NR and LTE	Ramin Soltani, Research and Development, Samsung Semicon	13667
Tuesday, 21 June 2022	9:00-10:30	4A	Machine Learning2	3	Distributed Finite-Sum Constrained Optimization subject to Nonlinearity on the Node Dynamics	Mohammadreza Doostmohammadian, electrical engineering,	54172
Tuesday, 21 June 2022	9:00-10:30	4A	Machine Learning2	4	FWSResNet: An Edge Device Fingerprinting Framework Based on Scattering and Convolutional Networks	Tiantian Zhang, School of Information and Communications Er	30467
Tuesday, 21 June 2022	9:00-10:30	4B	Positioning2	1	Multi-User Position Estimation and Performance Trade-offs in IEEE 802.11az WLANs	Varun Amar Reddy, Qualcomm Wireless Research, Qualcomm	67813
Tuesday, 21 June 2022	9:00-10:30	4B	Positioning2	2	Transfer Learning to adapt 5G AI-based Fingerprint Localization across Environments	Maximilian Stahlke, Division Precise Positioning and Analytics I	45117
Tuesday, 21 June 2022	9:00-10:30	4B	Positioning2	3	Unified Multi-Modal Data Aggregation for Complementary Sensor Networks Applied for Localization	Maximilian Berndt, Intelligent Networks Research Group, Gerr	46869
Tuesday, 21 June 2022	9:00-10:30	4B	Positioning2	4	Urban Navigation with LTE using a Large Antenna Array and Machine Learning	Russ Whiton, Electrical and Information Technology, Lund Univ	66752
Tuesday, 21 June 2022	9:00-10:30	4B	Positioning2	5	Vehicular Positioning and Tracking in Multipath Non-Line-of-Sight Channels	Julia Vinogradova, NAP, Ericsson Research, Finland Zhicheng	12851
Tuesday, 21 June 2022	9:00-10:30	4C	MIMO2	1	Data-Driven Beamforming Codebook Design to Improve Coverage in Millimeter Wave Networks	Mustafa F Özkoç, Department of Electrical and Computer Engi	39641
Tuesday, 21 June 2022	9:00-10:30	4C	MIMO2	2	Neural Network-Based Optimization of Progressive Image Transmission in MIMO Systems	Jiyoung Pyo, Computer Engineering, Konkuk University, South	66281
Tuesday, 21 June 2022	9:00-10:30	4C	MIMO2	3	Overlap-Save FBMC receivers for massive MIMO systems under channel impairments	Fatima Hamdar, Mathematical and Electrical Engineering, IMT	48279
Tuesday, 21 June 2022	9:00-10:30	4C	MIMO2	4	Performance-Complexity Trade-Off for Low-Complexity MIMO Detection: simplified BP vs. EP Receivers	Adam Mekhiche, WFD, Thales, France Antonio Maria Ciprianc	92092
Tuesday, 21 June 2022	9:00-10:30	4C	MIMO2	5	Spectral Efficiency of Full-Duplex MIMO Systems under the effects of Hardware Impairments	Emad Saleh, Electrical and Computer Engineering, Lakehead U	97015
Tuesday, 21 June 2022	9:00-10:30	4D	VLC&Optical2	1	A Hybrid Wavelength Allocation Framework for Fiber-Wireless Based Vehicle-to-Infrastructure Communication Network	Mehreen Mehreen, Electronics and Communication Engineeri	87014
Tuesday, 21 June 2022	9:00-10:30	4D	VLC&Optical2	2	Dual-Hop Underwater Wireless Optical Communication System	Mohammad Furqan Ali, School of Computer Science and Robo	45861
Tuesday, 21 June 2022	9:00-10:30	4D	VLC&Optical2	3	Experimental Validation of Optical Wireless Receiver using Solar Panel with Bandwidth Enhancement Circuit	Rahul ., Electronics and communication, IIIT-Delhi, India Abhij	12703
Tuesday, 21 June 2022	9:00-10:30	4D	VLC&Optical2	4	INVISIBLE: Enhanced Handover technique for Vehicular Visible Light Networks	Meysam Mayahi, FUN, INRIA, France Valeria Loscri, FUN, INRI	81854
Tuesday, 21 June 2022	9:00-10:30	4D	VLC&Optical2	5	Joint Pre- and Post-Equalization in Optical MIMO Systems using Multi-Level Signaling	Jasmeet Singh, Department of Electrical Engineering and Comp	30749
Tuesday, 21 June 2022	9:00-10:30	4E	Green Communications	1	Application of Feedforward Compensation in the Design of Active Front-End Converters	Mahda Jahromi, School of Sustainable Energy Engineering, Sim	21430
Tuesday, 21 June 2022	9:00-10:30	4E	Green Communications	2	Autonomous Reconfigurable Intelligent Surfaces Through Wireless Energy Harvesting	Konstantinos Ntontin, SnT, University of Luxembourg, Luxemb	51009
Tuesday, 21 June 2022	9:00-10:30	4E	Green Communications	3	Detection Schemes for Integrated SWIPT Receivers with Non-Linear Energy Harvesting	Eleni Goudeli, Electrical and Computer Engineering, University	77101
Tuesday, 21 June 2022	9:00-10:30	4E	Green Communications	4	Energy-Efficient Federated Learning for Wireless Computing Power Networks	Zongjun Li, School of Cyber Engineering, Xidian University, Chi	92141
Tuesday, 21 June 2022	9:00-10:30	4F	Mobile Systems	1	A VP-AltMin based Hybrid Beamforming in Integrated Sensing and Communication Systems for Vehicular Networks	Shenghui Dong, School of Information and Communication En	68514
Tuesday, 21 June 2022	9:00-10:30	4F	Mobile Systems	2	Experimental Trial aboard Shinkansen Test Train Running at 360 km/h for 5G Evolution	Nobuhide Nonaka, 6G-IOWN Promotion Department, NTT DO	17653

Tuesday, 21 June 2022	9:00-10:30	4F	Mobile Systems	3	Joint Ambiguity and Migration Mitigation for Enhanced High-Speed Moving Target Detection	Luzhou Xu, ATAP, Google, United States Jaime Lien, ATAP, Google, United States	34177
Tuesday, 21 June 2022	9:00-10:30	4F	Mobile Systems	4	Measurement-based Evaluation of Uplink Throughput Prediction	Mate Boban, MRC, Huawei Technologies Duesseldorf GmbH, Germany Sven Koenig, MRC, Huawei Technologies Duesseldorf GmbH, Germany	58336
Tuesday, 21 June 2022	9:00-10:30	4F	Mobile Systems	5	Mitigation of Doppler Effect in High-speed Trains through Relaying	Pavel Mach, Telecommunications Engineering, Czech Technical University in Prague	93693
Tuesday, 21 June 2022	11:00-12:30	5A	RIS2	1	Fine-Grained Analysis of Reconfigurable Intelligent Surface-Assisted mmWave Networks	Le Yang, National Mobile Communications Research Laboratory, China	50303
Tuesday, 21 June 2022	11:00-12:30	5A	RIS2	2	On LSTM Autoencoder-Based Hybrid Precoding for Reconfigurable Intelligent Surface-Aided Multiuser Millimeter-Wave Massive MIMO 6G Systems	Yi Hsien Lu, Department of Computer Science and Information Engineering, National Central University, Taiwan	53402
Tuesday, 21 June 2022	11:00-12:30	5A	RIS2	3	Performance Analysis of IRS-assisted Multi-tag Ambient Backscatter Communications	Khaled Humaid Altuwaigri, Electrical and Electronic Engineering Institute, United Arab Emirates	32879
Tuesday, 21 June 2022	11:00-12:30	5A	RIS2	4	Reconfigurable Intelligent Surface Empowered Multi-Hop Transmission over Generalized Fading	Vinay Kumar Chapala, EEE, BITS PILANI, India Syed Mohammad Saad, EEE, BITS PILANI, India	76843
Tuesday, 21 June 2022	11:00-12:30	5A	RIS2	5	Symbiotic Radio based Spectrum Sharing in Cooperative UAV-IRS Wireless Networks	Sourabh Solanki, Interdisciplinary Centre for Security, Reliability and Trust, United Kingdom	80495
Tuesday, 21 June 2022	11:00-12:30	5B	Estimation&Synchronization2	1	Channel-Estimation-Aware Joint Radar-Communications Designs	Xueyun Gu, School of Engineering, University of Warwick, United Kingdom	84809
Tuesday, 21 June 2022	11:00-12:30	5B	Estimation&Synchronization2	2	Delay-Doppler Channel Estimation in OTFS Systems Using DoA Estimation Techniques	Jobin Francis, Electrical Engineering, Indian Institute of Technology Bombay, India	41188
Tuesday, 21 June 2022	11:00-12:30	5B	Estimation&Synchronization2	3	Estimation of Receiver Frequency Deviations in Multifunction Frequency-Modulating Transceivers	Micael Bernhardt, Faculty of Information Technology and Computer Science, University of Applied Sciences, Germany	64232
Tuesday, 21 June 2022	11:00-12:30	5B	Estimation&Synchronization2	4	Exploiting Implicit OVFS Structure in DM-RS for Improved Channel Estimation in 5G NR Systems	Preethi R, Electrical Engineering, Indian Institute of Technology Bombay, India	67358
Tuesday, 21 June 2022	11:00-12:30	5B	Estimation&Synchronization2	5	Periodic Interference Cancellation With Drift Estimation Based on Super-Resolution Techniques in Frequency Domain	SATOSHI DENNO, Graduate School of Natural Science and Technology, Chiba University, Japan	28609
Tuesday, 21 June 2022	11:00-12:30	5B	Estimation&Synchronization2	6	Signature Estimation of Dual Wideband Systems	CHNADRASHEKHAR RAI, G S SANYAL SCHOOL OF TELECOMMUNICATIONS, Indian Institute of Technology Kharagpur, India	26822
Tuesday, 21 June 2022	11:00-12:30	5C	Sensing1	1	Correction of I/Q Imbalance in FMCW Radar System Using Geometric Sequence Decomposition	Jaehoon Jung, Department of Electrical and Computer Engineering, Seoul National University, South Korea	21484
Tuesday, 21 June 2022	11:00-12:30	5C	Sensing1	2	Deep-Learning Based Multi-Object Detection and Tracking using Range-Angle Map in Automotive Radar Systems	Ji-HE Kim, Institute of Communications Engineering, National Yang Ming Chiao Tung University, Taiwan	74352
Tuesday, 21 June 2022	11:00-12:30	5C	Sensing1	3	Disentangled Bad Weather Removal GAN for Pedestrian Detection	Hanting Yang, Graduate School of Informatics, Nagoya University, Japan	75200
Tuesday, 21 June 2022	11:00-12:30	5C	Sensing1	4	Evaluating the Impact of Map Inaccuracies on Path Discrimination Behind Railway Turnouts	Wendi Löffler, Information Science and Engineering, KTH Royal Institute of Technology, Sweden	85278
Tuesday, 21 June 2022	11:00-12:30	5C	Sensing1	5	Experimental Evaluation of Mutual Interference in Automotive Radars	Gianluca Ciattaglia, DII, Università Politecnica delle Marche, Italy	44903
Tuesday, 21 June 2022	11:00-12:30	5D	Cell Free Systems	1	A Low Complexity Sequential Resource Allocation for Panel-Based LIS Surfaces	Andreia Pereira, Electrical and Computer Engineering, University of Toronto, Canada	23228
Tuesday, 21 June 2022	11:00-12:30	5D	Cell Free Systems	2	Cell-Free mMIMO Systems with Dynamic TDD	HanWoong Kim, Department of Electrical Engineering, Yonsei University, South Korea	80617
Tuesday, 21 June 2022	11:00-12:30	5D	Cell Free Systems	3	Design of Generalized Superimposed Training for Uplink Cell-free Massive MIMO Systems	Hanxiao Ge, Institute for Digital Communications, The University of Edinburgh, United Kingdom	66120
Tuesday, 21 June 2022	11:00-12:30	5D	Cell Free Systems	4	Enhancing Physical Layer Security in Large Intelligent Surface-aided Cooperative Networks	Madi Makin, Electrical and Computer Engineering, Nazarbayev University, Kazakhstan	68365
Tuesday, 21 June 2022	11:00-12:30	5D	Cell Free Systems	5	User Fairness in Radio Stripes Networks using Meta-Heuristics Optimization	Filipe Conceição, Department of Electrical and Computer Engineering, University of Toronto, Canada	32654
Tuesday, 21 June 2022	11:00-12:30	5E	Coding	1	A Scalable LDPC Coding Scheme for Adaptive HARQ Techniques	Joao Madeira, Electrical Engineering, NOVA School of Science and Technology, Portugal	33094
Tuesday, 21 June 2022	11:00-12:30	5E	Coding	2	Applicability of Space-Time Block Codes for Distributed Cooperative Broadcasting in MANETs with High Node Mobility	Mus'ab Yüksel, Department EIT, Hochschule Darmstadt, Germany	59504
Tuesday, 21 June 2022	11:00-12:30	5E	Coding	3	Early Stopping of BP Polar Decoding Based on Parity-Check Sums	Alireza Hasani, System Architectures, IHP - Leibniz-Institut für Informationssysteme, Germany	33294
Tuesday, 21 June 2022	11:00-12:30	5E	Coding	4	HARQ Based Optimal Scheduling Strategy for Multi-Loop WNCS	Minghan Zhang, the Department of Electronics and Information Engineering, Jilin University, China	28046
Tuesday, 21 June 2022	11:00-12:30	5E	Coding	5	Phase Synchronization for Non-Binary Coded CCSK Short Frames	Kassem Saied, LabSTICC, UBS, France Ali Chamas AlGhouwaye, UBS, France	84318
Tuesday, 21 June 2022	16:00-17:30	6A	NOMA2	1	Impact of Channel Correlation on Subspace-Based Activity Detection in Grant-Free NOMA	Bashar Tahir, Institute of Telecommunications, TU Wien, Austria	96489
Tuesday, 21 June 2022	16:00-17:30	6A	NOMA2	2	Low-Complexity Dynamic Channel Estimation in Multi-Antenna Grant-Free NOMA	Fakher Sagheer, CITI, Telecom SudParis, France Frederic Lehmann, Telecom SudParis, France	29314
Tuesday, 21 June 2022	16:00-17:30	6A	NOMA2	3	On Asymmetric Game for NOMA-ALOHA under Fading	Jinho Choi, School of IT, Deakin University, Australia Youngwoon Park, School of IT, Deakin University, Australia	98917
Tuesday, 21 June 2022	16:00-17:30	6A	NOMA2	4	Precoded Non-Orthogonal Frequency Division Multiplexing with Subcarrier Index Modulation	Prakash Chaki, Institute of Industrial Science, The University of Tokyo, Japan	59949
Tuesday, 21 June 2022	16:00-17:30	6A	NOMA2	5	Waveform Design for Power-Domain Asynchronous NOMA	Martin Sigmund, Vodafone Chair Mobile Communication Systems, Technical University of Munich, Germany	44819
Tuesday, 21 June 2022	16:00-17:30	6B	Autonomous Vehicules	1	An Analysis of Distributional Shifts in Automated Driving Functions in Highway Scenarios	Oliver De Candido, TUM School of Computation, Information Systems and Management, Technical University of Munich, Germany	38872
Tuesday, 21 June 2022	16:00-17:30	6B	Autonomous Vehicules	2	An Inter-operable and Multi-protocol V2X Collision Avoidance Service based on Edge Computing	Raúl Parada, SAI, Centre Tecnològic de Telecomunicacions de Catalunya, Spain	61628
Tuesday, 21 June 2022	16:00-17:30	6B	Autonomous Vehicules	3	LiDAR-Camera Fusion for Depth Enhanced Unsupervised Odometry	Naida Fetic, Mechatronics, Sabanci University, Turkey Eren Ayar, Mechatronics, Sabanci University, Turkey	17954
Tuesday, 21 June 2022	16:00-17:30	6B	Autonomous Vehicules	4	Synchronization of Hybrid Models in the Automated Driving Simulation	Wojciech Baron, Computer Networks and Communication Systems, Wrocław University of Science and Technology, Poland	18093
Tuesday, 21 June 2022	16:00-17:30	6B	Autonomous Vehicules	5	Traffic-Aware Multi-View Video Stream Adaptation for Teleoperated Driving	Markus Hofbauer, Chair of Media Technology, Technical University of Munich, Germany	97706
Tuesday, 21 June 2022	16:00-17:30	6C	AMMS2	1	Distributed Deployment of Aerial Base Stations with RF Energy Harvesting	Shunya Kida, Department of Information and Communications Engineering, National Institute of Advanced Industrial Science and Technology, Japan	65232
Tuesday, 21 June 2022	16:00-17:30	6C	AMMS2	2	Dynamic Antenna Control for HAPS Using Geometry-based Method in Multi-Cell Configuration	Siyuan Yang, Graduate School of Science and Technology, Keio University, Japan	15223
Tuesday, 21 June 2022	16:00-17:30	6C	AMMS2	3	Experimental UAV-Aided RSSI Localization of a Ground RF Emitter in 865 MHz and 2.4 GHz Bands	Stefano Moro, Dipartimento di Elettronica Informazione e Bioingegneria, Politecnico di Torino, Italy	49876
Tuesday, 21 June 2022	16:00-17:30	6C	AMMS2	4	Optimal Offloading of Computing-intensive Tasks for Edge-aided Maritime UAV Systems	Huanran Li, Department of Electronics and Information Engineering, Beijing University of Aeronautics and Astronautics, China	80870
Tuesday, 21 June 2022	16:00-17:30	6C	AMMS2	5	SwarmHive: Heterogeneous Swarm of Drones for Robust Autonomous Landing on Moving Robot	Ayush Gupta, Digital Engineering Center, Skolkovo Institute of Technology, Russia	12403
Tuesday, 21 June 2022	16:00-17:30	6D	Security1	1	ART: An Adaptive and Rotated Transmission for Physical Layer Security	Icheon Kim, System LSI Division, Samsung Electronics, South Korea	53224
Tuesday, 21 June 2022	16:00-17:30	6D	Security1	2	Channel-Dependent Code Allocation for Downlink MC-CDMA System Aided Physical Layer Security	Hanadi SALMAN, Electrical and Electronics Engineering, Istanbul Kültür University, Turkey	96060
Tuesday, 21 June 2022	16:00-17:30	6D	Security1	3	Secrecy Outage Performance Analysis of Energy Harvesting Enabled Two-tier UAV Assisted Cognitive Communication	Wen-Jing Wang, Shaanxi Key Laboratory of Information Communication, Shaanxi University of Science and Technology, China	66640
Tuesday, 21 June 2022	16:00-17:30	6D	Security1	4	Secret Key Generation Rates over Frequency Selective Channels	Miroslav Mitev, Wireless connectivity, Barkhausen Institut, Germany	79945
Tuesday, 21 June 2022	16:00-17:30	6D	Security1	5	Spatial Degrees of Freedom for Physical Layer Security in XL-MIMO	Gonzalo J. Anaya-López, Ingeniería de Comunicaciones, ComSIS, Universidad Carlos III de Madrid, Spain	36871
Tuesday, 21 June 2022	16:00-17:30	6E	Resource Allocation1	1	Dynamic-Structure Resource Block Allocation Based Scheduling for 5G Systems	Ahmad Jaradat, Department of Electrical and Electronics Engineering, American University of Sharjah, United Arab Emirates	41149
Tuesday, 21 June 2022	16:00-17:30	6E	Resource Allocation1	2	Flexible Resource Allocation for Differentiated QoS Provisioning in Beam-Hopping Satellite Communications System	Zhenguo Wu, School of Information and Communications Engineering, Beijing University of Aeronautics and Astronautics, China	31896
Tuesday, 21 June 2022	16:00-17:30	6E	Resource Allocation1	3	On The Design of Resilient and Reliable Wireless Backhaul Networks	Ahmed Abdelmoaty, Electrical Engineering Department, École Polytechnique, Canada	46665
Tuesday, 21 June 2022	16:00-17:30	6E	Resource Allocation1	4	Q-Learning-based Setting of Cell Individual Offset for Handover of Flying Base Stations	Aida Madelkhanova, Department of Telecommunication Engineering, University of Jyväskylä, Finland	28607

Tuesday, 21 June 2022	16:00-17:30	6E	Resource Allocation1	5	Radio Access Control of Access Points and Intelligent Reflecting Surfaces for Data Rate Improvement in Joint Transmission	Tatsuya Nakazato, Graduate School of Information Sciences, T	32216
Tuesday, 21 June 2022	16:00-17:30	6F	Vehicular Cooperation&Control	1	Cooperative Path Planning Using Responsibility-Sensitive Safety (RSS)-based Potential Field with Sigmoid Curve	Pengfei Lin, Creative Informatics, The University of Tokyo, Japa	37439
Tuesday, 21 June 2022	16:00-17:30	6F	Vehicular Cooperation&Control	2	Multi-Agent Reinforcement Learning for Channel Assignment and Power Allocation in Platoon-Based C-V2X Systems	Hung Vu, Wireless Department, Huawei Technologies Canada,	52921
Tuesday, 21 June 2022	16:00-17:30	6F	Vehicular Cooperation&Control	3	Simulating Realistic Rain, Snow, and Fog Variations For Comprehensive Performance Characterization of LiDAR Perception	Sven Teufel, Computer Science, University of Tübingen, Germa	25243
Tuesday, 21 June 2022	16:00-17:30	6F	Vehicular Cooperation&Control	4	The Impact of Partial Packet Recovery on the Inherent Secrecy of Random Linear Coding	Ioannis Chatzigeorgiou, School of Computing and Communicat	79951
Tuesday, 21 June 2022	16:00-17:30	6F	Vehicular Cooperation&Control	5	Towards Safe and Efficient Modular Path Planning using Twin Delayed DDPG	Marawan Hebaish, Department of Informatics and Computer S	29936
Wednesday, 22 June 2022	9:00-10:30	7A	Machine Learning3	1	Deep Learning-based Intra-slice Attack Detection for 5G-V2X Sliced Networks	Abdelwahab Boulouache, Faculty of Science, Technology, and	17296
Wednesday, 22 June 2022	9:00-10:30	7A	Machine Learning3	2	Deep Learning-Based Optimal Transmission of Embedded Images Over Interference Channels	Jiyoung Pyo, Computer Engineering, Konkuk University, South	34294
Wednesday, 22 June 2022	9:00-10:30	7A	Machine Learning3	3	Enabling Edge-based Federated Learning through MQTT and OMA Lightweight-M2M	Giacomo Genovese, DIIES, University Mediterranea of Reggio	29869
Wednesday, 22 June 2022	9:00-10:30	7A	Machine Learning3	4	Evaluation of visualization algorithms for CommSense system	Sandip Jana, Electrical Engineering, Indian Institute of Technol	22132
Wednesday, 22 June 2022	9:00-10:30	7A	Machine Learning3	5	Resource Efficient Cluster-Based Federated Learning for D2D Communications	June Pyo Jung, AI convergence network, Ajou University, South	87105
Wednesday, 22 June 2022	9:00-10:30	7B	Detection	1	Blind Signal Detection for Asynchronous Multi-Tag Transmission in Ambient Backscatter Communications	Yuan Liu, School of Information and Communications Engineer	31875
Wednesday, 22 June 2022	9:00-10:30	7B	Detection	2	Deep Learning Based Receivers for IEEE 802.11p Standard with High Power Amplifiers Distortions	Ana Flávia dos Reis, CPGEI, Federal University of Technology - I	34359
Wednesday, 22 June 2022	9:00-10:30	7B	Detection	3	Deep Learning-based List Sphere Decoding for Faster-than-Nyquist (FTN) Signaling Detection	Sina Abbasi, Electrical and Computer Engineering, University o	30946
Wednesday, 22 June 2022	9:00-10:30	7B	Detection	4	SF-DS: A Slot-Free Decoding Scheme for Collided LoRa Transmissions	Weixuan Xiao, LIMOS, Université Clermont Auvergne, France I	58494
Wednesday, 22 June 2022	9:00-10:30	7B	Detection	5	Support Vector-Based Unsupervised Learning Approaches for Radio Frequency Interference Detection	Alexander Amache, Computer Sciences, Universite du Quebec	26506
Wednesday, 22 June 2022	9:00-10:30	7C	Vehicular Networks	1	AODV-LD: Link Duration Based Routing for Multi-Hop Aircraft-to-Ground Communication	Konrad Fuger, Institute of Communication Networks, Hamburg	72786
Wednesday, 22 June 2022	9:00-10:30	7C	Vehicular Networks	2	Edge-Aided Sensor Data Sharing in Vehicular Communication Networks	Rui Song, VMI, Fraunhofer IVI, Germany Anupama Hegde, CAF	35511
Wednesday, 22 June 2022	9:00-10:30	7C	Vehicular Networks	3	Enhancing the 5G-V2X Sidelink Autonomous Mode through Full-Duplex Capabilities	Alessandro Bazzi, DEI, University of Bologna, Italy Vittorio Tod	17634
Wednesday, 22 June 2022	9:00-10:30	7C	Vehicular Networks	4	Evaluation of 5G-NR V2N Connectivity in a Centralized Cooperative Lane Change Scenario	Federico Poli, Systems Department, CEA-Leti, University Grenc	54000
Wednesday, 22 June 2022	9:00-10:30	7C	Vehicular Networks	5	Modelling the packet delivery of V2V messagesbased on the macroscopic traffic parameters	Aashik Chandramohan, DACS, University of Twente, Netherlan	55058
Wednesday, 22 June 2022	9:00-10:30	7D	Performance Evaluation	1	LoS, Non-LoS and Quasi-LoS Signal Propagation: A Three State Channel Model	Jonathan Browning, Electrical and Electronic Engineering, Que	54415
Wednesday, 22 June 2022	9:00-10:30	7D	Performance Evaluation	2	Performance Evaluation Framework Based on Multiuser Cooperative Mobility in MANETs	Jiquan Xie, Information technology center, Nagoya University,	64312
Wednesday, 22 June 2022	9:00-10:30	7D	Performance Evaluation	3	Performance Evaluation of a proposed Two-Hop D&F Co-operative 5G Network using SDR Platform	Randy Verdecia-Peña, Signals, Systems, and Radiocommunicat	56820
Wednesday, 22 June 2022	9:00-10:30	7D	Performance Evaluation	4	Spatio-Temporal Analysis of SINR Meta Distribution for mmWave Heterogeneous Networks Under Geo/G/1 Queues	Le Yang, National Mobile Communications Research Laborator	56838
Wednesday, 22 June 2022	9:00-10:30	7D	Performance Evaluation	5	System Level Evaluation for NB-IoT Satellite Communications	Valérian Mannoni, Leti, CEA, France Vincent Berg, Leti, CEA, Fr	19498
Wednesday, 22 June 2022	9:00-10:30	7E	URLLC	1	Bayesian Optimization of Blocklength for URLLC Under Channel Distribution Uncertainty	Wenheng Zhang, Wolfson School of Mechanical, Electrical and	47716
Wednesday, 22 June 2022	9:00-10:30	7E	URLLC	2	Dual-mode Ultra Reliable Low Latency Communications for Industrial Wireless Control	Liang Zhou, N/A, Inalambrica Oy, Finland Olav Tirkkonen, Cor	20181
Wednesday, 22 June 2022	9:00-10:30	7E	URLLC	3	Optimization of Repetition Scheme for URLLC with Diverse Reliability Requirements	Qingjiao Song, Electronic and Information Engineering, Harbin	17537
Wednesday, 22 June 2022	9:00-10:30	7E	URLLC	4	Outer Loop Link Adaptation Enhancements for Ultra Reliable Low Latency Communications in 5G	Elena Peralta, Standards, Nokia, Finland Guillermo Poci, Sta	83388
Wednesday, 22 June 2022	9:00-10:30	7E	URLLC	5	Statistical approach to channel state reporting for URLLC	Alexey Shapin, Ericsson Research, Ericsson AB, Sweden Jonas	29534
Wednesday, 22 June 2022	9:00-10:30	7F	EVVEIC2	1	A Reinforcement Learning-based Assignment Scheme for EVs to Charging Stations	Mohammad Aljaidi, Computer and Information Sciences, Nort	38424
Wednesday, 22 June 2022	9:00-10:30	7F	EVVEIC2	2	Optimal lifetime management strategy for Self-Reconfigurable Batteries	Jérôme Blatter, Liten, Univ. Grenoble Alpes, CEA, France Vince	73168
Wednesday, 22 June 2022	9:00-10:30	7F	EVVEIC2	3	Real-time and multi-layered energy management strategies for fuel cell electric vehicle overview	Matthieu Matignon, Energy and Embedded Systems for Transp	10766
Wednesday, 22 June 2022	9:00-10:30	7F	EVVEIC2	4	Voltage Stability of Automotive Power Supplies During Tripping Events of Melting and Electronic Fuses	Michael Gerten, On-board Systems Lab, TU Dortmund Univers	54699
Wednesday, 22 June 2022	11:00-12:30	8A	THz Systems	1	Double-directional Multipath Data at 140 GHz Derived from Measurement-based Ray-launcher	Mar Francis De Guzman, Department of Electronics and Nanoe	88547
Wednesday, 22 June 2022	11:00-12:30	8A	THz Systems	2	Dual-Beam Intelligent Reflecting Surface for Millimeter and THz Communications	Wei Jiang, Intelligent Networking, German Research Center fo	20974
Wednesday, 22 June 2022	11:00-12:30	8A	THz Systems	3	Overcoming Directional Deafness in High Frequency Sidelink Communications	Ashutosh Srivastava, Electrical and Computer Engineering, Nev	16209
Wednesday, 22 June 2022	11:00-12:30	8A	THz Systems	4	Performance Analysis of Cooperative Relaying for Multi-Antenna RF Transmissions over THz Wireless Link	Pranay Bhardwaj, EEE, BITS PILANI, India Syed Mohammad Za	85061
Wednesday, 22 June 2022	11:00-12:30	8A	THz Systems	5	Virtualized terminal utilizing terahertz band radio waves for Beyond 5G : Link budget analysis	Yoshio Kunisawa, Radio and Spectrum Laboratory, KDDI Resea	60086
Wednesday, 22 June 2022	11:00-12:30	8B	Positioning3	1	A Cluster-Based Weighted Feature Similarity Moving Target Tracking Algorithm for Automotive FMCW Radar	Rongqian Chen, School of Information Science and Technology	57442
Wednesday, 22 June 2022	11:00-12:30	8B	Positioning3	2	Assessment of Feature Selection for Context Awareness RF Sensing Systems	Ricardo Cruz, None, Instituto de Telecomunicações, Portugal J	80831
Wednesday, 22 June 2022	11:00-12:30	8B	Positioning3	3	Countrywide Basestation Localization with Timing Advance Measurements from Crowdsourcing	Lukas Eller, Institute of Telecommunications, TU Wien, Austria	83932
Wednesday, 22 June 2022	11:00-12:30	8B	Positioning3	4	Location-Aided Beamforming in Mobile Millimeter-Wave Networks	Sara Khosravi, Computer Science, KTH Royal Institute of the Te	57126
Wednesday, 22 June 2022	11:00-12:30	8B	Positioning3	5	Would Future mmWave Wireless Networks Be an Alternative Positioning Technique to GNSS-Based High Precision Positioning?	Sharief Saleh, Electrical and Computer Engineering, Queen's U	87131
Wednesday, 22 June 2022	11:00-12:30	8C	Emerging Systems	1	A Novel Cell-Sweeping based Base Stations Deployment for Coverage, Throughput, and Energy Efficiency Enhancement	Rúben Borralho, Department of Electrical and Electronic Engir	75932
Wednesday, 22 June 2022	11:00-12:30	8C	Emerging Systems	2	Lightweight Digital Twin and Federated Learning with Distributed Incentive in Air-Ground 6G Networks	Sijia Lian, School of Cyber Engineering, Xidian University, Chin	29493
Wednesday, 22 June 2022	11:00-12:30	8C	Emerging Systems	3	Performance of Uplink Coverage Enhancement Schemes for 5G NR in 3GPP	Junyung YI, Samsung Research, Samsung Electronics Co., South	16579
Wednesday, 22 June 2022	11:00-12:30	8C	Emerging Systems	4	Physical Layer Abstraction Model for RadioWeaves	Rimalapudi Sarvendranath, Electrical Engineering, Linköping U	24993
Wednesday, 22 June 2022	11:00-12:30	8C	Emerging Systems	5	Uplink Transmission Schemes for 5G NR Unlicensed: Design Principles and Achievable Performance	Elena Peralta, Standards, Nokia, Finland Rafael Paiva, Stand	97022
Wednesday, 22 June 2022	11:00-12:30	8D	Security2	1	Cross-locking Enabled Multi-route Fountain Coding for Secure Transmission	Liwei Huang, School of Information and Communications Engin	51033
Wednesday, 22 June 2022	11:00-12:30	8D	Security2	2	Mitigating Routing Misbehavior in the Internet of Drones Environment	Cong Pu, Department of Computer Sciences and Electrical Eng	84395
Wednesday, 22 June 2022	11:00-12:30	8D	Security2	3	Physical Layer Security of Buffer-Aided Hybrid Virtual Full-Duplex and Half-Duplex Relay Selection	Gan Srirutchataboon, Institute of Industrial Science, The Unive	74332

Wednesday, 22 June 2022	11:00-12:30	8D	Security2	4	Re-Defining Secure Distance for CSI-based Key Generation Protocols	Chrysanthi Paschou, Electrical and Electronic Engineering, Univ	17231
Wednesday, 22 June 2022	11:00-12:30	8D	Security2	5	Robust secret key generation for frequency-selective channels	Magnus Sandell, Bristol Research and Innovation Laboratory, T	11385
Wednesday, 22 June 2022	11:00-12:30	8E	Propagation&Channel Modeling	1	Measurement-based characterization for polarimetric channel hardening in outdoor environments	Silvi Kodra, College of Electronics and Information Engineering	45393
Wednesday, 22 June 2022	11:00-12:30	8E	Propagation&Channel Modeling	2	Angle-Resolved THz Channel Measurements at 300 GHz in an Industrial Environment	Alper Schultze, Wireless Communications and Networks, Fraun	87242
Wednesday, 22 June 2022	11:00-12:30	8E	Propagation&Channel Modeling	3	Comparisons of Channel Characteristics and Capacities of Three 5G/B5G Wireless Channel Models	Yue Yang, National Mobile Communications Research Laborat	48166
Wednesday, 22 June 2022	11:00-12:30	8E	Propagation&Channel Modeling	4	Experimental Validation of Time Reversal Multiple Access for UWB Wireless Communications Centered at the 273.6 GHz Frequency	Ali Mokh, institut Langevin, ESPCI Paris, PSL Research Universit	16764
Wednesday, 22 June 2022	11:00-12:30	8E	Propagation&Channel Modeling	5	From 3D Point Cloud Data to Ray-tracing Multi-band Simulations in Industrial Scenario	Han Niu, Electronic Measurements and Signal Processing Grou	29926
Wednesday, 22 June 2022	16:00-17:30	9A	Intelligent Systems	1	Assessment of V2X Communications For Enhanced Vulnerable Road Users Safety	Mouna Karoui, Grenoble, CEA-Leti, Universite Grenoble Alpes,	53913
Wednesday, 22 June 2022	16:00-17:30	9A	Intelligent Systems	2	Autonomous miniature vehicle for testing 5G intelligent traffic weather services	Toni Perälä, Arctic Space Centre, Finnish Meteorological Institu	31666
Wednesday, 22 June 2022	16:00-17:30	9A	Intelligent Systems	3	DogTouch: CNN-based Recognition of Surface Textures by Quadruped Robot with High Density Tactile Sensors	Nipun Dhananjaya Weerakkodi Mudalige, ISR Laboratory, Skol	32390
Wednesday, 22 June 2022	16:00-17:30	9A	Intelligent Systems	4	Effective Charging Strategies for Rental BEVs	Otto Piramuthu, Computer Science, University of Illinois at Urb	92552
Wednesday, 22 June 2022	16:00-17:30	9A	Intelligent Systems	5	Single-cell Dynamic Duplex Cellular System Using Distributed Receive-only Base Stations	Keita Fukushima, School of Informatics, Kyoto University, Japa	79900
Wednesday, 22 June 2022	16:00-17:30	9B	Energy Systems	1	Age of Information and Energy Harvesting Tradeoff for Joint Packet Coding in Downlink IoT Networks	Zijing Zou, Department of Information Engineering, The Chine	30419
Wednesday, 22 June 2022	16:00-17:30	9B	Energy Systems	2	Differential Chaos Shift Keying-based Wireless Power Transfer over a Frequency Selective Channel	Priyadarshi Mukherjee, Electrical and Computer Engineering D	53992
Wednesday, 22 June 2022	16:00-17:30	9B	Energy Systems	3	Optimum Constellation for Symbol-Error-Rate to PAPR Ratio Minimization in SWIPT	Manuel Jose Lopez Morales, Signal Theory and Communication	27985
Wednesday, 22 June 2022	16:00-17:30	9C	Sensing2	1	An Integrated Reward Function of End-to-End Deep Reinforcement Learning for the Longitudinal and Lateral Control of Autonomous Vehicles	Sung-Bean Jo, Department of Electrical Engineering, Pusan Nat	41569
Wednesday, 22 June 2022	16:00-17:30	9C	Sensing2	2	Novel Approach for Gesture Recognition Using mmWave FMCW RADAR	Yanhua Zhao, System Architectures, IHP - Leibniz-Institut für ir	87315
Wednesday, 22 June 2022	16:00-17:30	9C	Sensing2	3	Road Markings and Road Edges Mapping With Inverse Visual Detector Model	Oleg Shipitko, -, Evocargo LLC, Russia Anatoly Kbakov, -, Evoca	61915
Wednesday, 22 June 2022	16:00-17:30	9C	Sensing2	4	Two-stage estimation algorithm based on interleaved OFDM for a cooperative bistatic ISAC scenario	Leonardo Leyva, DETI, Instituto de Telecomunicações and Univ	64770
Wednesday, 22 June 2022	16:00-17:30	9C	Sensing2	5	WiFi-Based Low-Complexity Gesture Recognition Using Categorization	Ji Soo Kim, Dept. of Computer Sci. & Eng., Seoul National Univ	26442
Wednesday, 22 June 2022	16:00-17:30	9D	Low Latency	1	5G-NR Latency Field Performance for Immersive Live Videos	Jin Yang, Fellow, Verizon Communications, United States Andr	11364
Wednesday, 22 June 2022	16:00-17:30	9D	Low Latency	2	Low-Latency MAC Design for Pairwise Random Networks	Irshad A. Meer, Department of Computer Science, KTH Royal I	29337
Wednesday, 22 June 2022	16:00-17:30	9D	Low Latency	3	Performance Evaluation of 5G Multi-Connectivity with Packet Duplication for Reliable Low Latency Communication in Mobility Scenarios	Prabodh Mishra, Electrical and Computer Engineering, Clemso	45643
Wednesday, 22 June 2022	16:00-17:30	9D	Low Latency	4	Proactive Resource Scheduling for 5G and Beyond Ultra-Reliable Low Latency Communications	Ngoc Lam Dinh, DSYS, CEA-LETI, France Mickael Maman, DSYS	45310
Wednesday, 22 June 2022	16:00-17:30	9D	Low Latency	5	Scaling Dense NB-IoT Networks to the Max: Performance Benefits of Early Data Transmission	Pascal Jörke, Communication Networks Institute, TU Dortmund	21970
Wednesday, 22 June 2022	16:00-17:30	9E	Resource Allocation2	1	Deep Learning-based Multi-Connectivity Optimization in Cellular Networks	Juan Jesús Hernández Carlón, Dept. Signal Theory and Commu	34881
Wednesday, 22 June 2022	16:00-17:30	9E	Resource Allocation2	2	Markov Analysis of C-V2X Resource Reservation for Vehicle Platooning	Xin Gu, School of Automation, Central South University, China	60764
Wednesday, 22 June 2022	16:00-17:30	9E	Resource Allocation2	3	MetoidS: Hybrid K-Medoids-Meta Heuristic Clustering-Based Routing Optimization in Vehicular Ad-Hoc Networks	Ankur Nahar, Computer Science and Engineering, Indian Instit	89902
Wednesday, 22 June 2022	16:00-17:30	9E	Resource Allocation2	4	MIX-MAB: A Reinforcement Learning-based Resource Allocation Algorithm for LoRaWAN	Farzad Azizi, Computer engineering, Amirekabir University of T	76835
Wednesday, 22 June 2022	16:00-17:30	9E	Resource Allocation2	5	Spatial-Interference Aware Cooperative Resource Allocation for 5G V2V Communications	Silvia Mura, DEIB, Politecnico di Milano, Italy Francesco Linsal	53925