

	Tuesday (May 8)	Wednesday (May 9)	Thursday (May 10)
8:00 - 8:45	Registration	Registration	Registration
8:30 - 9:00	Opening	Registration	Registration
9:00 - 10:00	Keynote: Prof. Sherman Shen University of Waterloo, USA	Keynote: Prof. Guiseppe Caire Technical University of Berlin, Germany	Keynote: Junshan Zhang Arizona State University, USA
	Automated Driving and Connected Vehicles	Is There Hope for Massive MIMO in FDD Systems?	Privacy-Preserving Data Collection for IoT: What is New Norm?
10:00 - 10:30	Coffee Break	Coffee Break	Coffee Break
10:30 - 12:00	Session 1 (Chair: Atilla Eryilmaz) Cross-layer design and optimization / control	Session 5 (Chair: K. P. Naveen) Network Economics	Session 9 (Chair: Jia Kevin Liu) Modeling, model validation, and performance analysis
	#1 Qos-Aware Predictive Rate Allocation over Heterogeneous Wireless Interfaces <i>Sherif ElAzzouni, Eylem Ekici and Ness B. Shroff (The Ohio State University, USA)</i>	#1 Pricing Competition of Rollover Data Plan <i>Zhiyuan Wang (The Chinese University of Hong Kong, Hong Kong); Lin Gao (Harbin Institute of Technology (Shenzhen), P.R. China); Jianwei Huang (The Chinese University of Hong Kong, Hong Kong)</i>	#1 Mean-field limit of the fixed-reward incentive mechanism in Delay Tolerant Networks <i>Thi Thu Hang Nguyen (LAAS-CNRS, France); Olivier Brun (Laboratoire d'Analyse et d'Architecture des Systemes & CNRS, France); Balakrishna Prabhu (LAAS-CNRS, France)</i>
	#2 Efficient and Low-Overhead Uplink Scheduling for Large-Scale Wireless Internet-of-Things <i>Bin Li (University of Rhode Island, USA); Bo Ji (Temple University, USA); Jia Liu (Iowa State University, USA)</i>	#2 A Hybrid Pricing Mechanism for Data Sharing in P2P-based Mobile Crowdsensing <i>Xiao Zeng (Harbin Institute of Technology, Shenzhen, P.R. China); Lin Gao (Harbin Institute of Technology (Shenzhen), P.R. China); Changkun Jiang (The Chinese University of Hong Kong, P.R. China); Tong Wang, Juan Liu and Baitao Zou (Harbin Institute of Technology, Shenzhen, P.R. China)</i>	#2 Downlink Multi-User MIMO Scheduling with Performance Guarantees <i>Narayan Prasad (Huawei Research, USA); Xiao Qi (Huawei, USA)</i>

	#3 Network Utility Maximization with Heterogeneous Traffic Flows <i>Abhishek Sinha (Massachusetts Institute of Technology, USA); Eytan Modiano (MIT, USA)</i>	#3 A double-auction mechanism for mobile data-offloading markets with strategic agents <i>Naveen Kolar Purushothama (Indian Institute of Technology Tirupati, India); Rajesh Sundareshan (Indian Institute of Science, India)</i>	#3 Speed Scaling under QoS constraints with Finite Buffer <i>Parikshit Hegde and Akshit Kumar (Indian Institute of Technology Madras, India); Rahul Vaze (TIFR Mumbai, India)</i>
		#4 Optimal Dynamic Contract for Spectrum Reservation in Mission-Critical UNB-IoT Systems <i>Muhammad Junaid Farooq and Quanyan Zhu (New York University, USA)</i>	#4 Efficient Scheduling for Synchronized Demands in Stochastic Networks <i>Bin Li (University of Rhode Island, USA); Zai Shi and Atilla Eryilmaz (The Ohio State University, USA)</i>
12:00 - 13:00	Lunch (provided by conference)	Lunch (provided by conference)	Lunch (provided by conference)
13:00 - 14:30	Session 2 (Chair: Yung Yi): Scaling laws and fundamental limits; Access control	Session 6 (Chair: Xinbing Wang) Energy efficiency, harvesting, power control and management	Session 10 (Chair: Bo Yang) Data analytics & machine learning in wireless networks
	Invited Talk: Prof. Ness Shroff Ohio State University	Invited Talk: Prof. Song Chong Korea Advanced Institute and Science and Technology	Invited Talk: Prof. Mikael Johansson KTH, Sweden
	A Fresh Look at and Old Problem: Network Utility Maximization - Convergence, Delay, and Complexity	Human Movement Patterns and Mobile Network Performance	Learning at the edge: Novel Theory for Distributed Resource-constrained Machine Learning
	#1 Quick Discovery of Mobile Devices in the Many-User Regime - Carrier Sensing or Simultaneous Detection? <i>Altug Karakurt, Atilla Eryilmaz and Can Emre Koksal (The Ohio State University, USA)</i>	#1 Wireless Power Provision as a Public Good <i>Meng Zhang (The Chinese University of Hong Kong, P.R. China); Jianwei Huang (The Chinese University of Hong Kong, Hong Kong); Rui Zhang (National University of Singapore, Singapore)</i>	#1 Optimizing Data Analytics in Energy Constrained IoT Networks <i>Apostolos Galanopoulos and George Iosifidis (Trinity College Dublin, Ireland); Theodoros Salonidis (IBM Research, USA)</i>

	<p>#2 A Model-Free Framework for Coverage Evaluation in Device-to-Device Heterogeneous Networks</p> <p><i>Chun-Hung Liu (University of Michigan, USA)</i></p>	<p>#2 Wireless Energy Transfer to a Pair of Energy Receivers using Signal Strength Feedback</p> <p><i>Samith Abeywickrama (Singapore University of Technology and Design, Singapore); Tharaka Samarasinghe (University of Moratuwa, Sri Lanka); Chau Yuen (Singapore University of Technology and Design, Singapore); Rui Zhang (National University of Singapore, Singapore)</i></p>	<p>#2 Trekking Based Distributed Algorithm for Opportunistic Spectrum Access in Infrastructure-less Network</p> <p><i>Rohit Kumar (NIT Delhi, India); Ankit Yadav (Texas A&M University, USA); Sumit Jagdish Darak (IIIT-Delhi, India); Manjesh K Hanawal (IIT Bombay, India)</i></p>
14:30 - 14:50	Coffee Break	Coffee Break	Coffee Break
14:50 - 16:20	<p>Session 3 (Chair: Leandros Tassiulas) Performance Measurements in wireless networks</p>	<p>Session 7 (Chair: Song Chong) Resource allocation and management</p>	<p>Session 11 (Chair: Lin Gao) Security, trust and privacy</p>
	<p>#1 UAV Placement Games for Optimal Wireless Service Provision</p> <p><i>Xinping Xu (Singapore University of Technology and Design, Singapore); Lingjie Duan (Singapore University of Technology and Design (SUTD), Singapore); Minming Li (City University of Hong Kong, Hong Kong)</i></p>	<p>Invited Talk: TBA</p>	<p>#1 Privacy-preserving Ride Clustering for Customized-bus Sharing: A Fog-assisted Approach</p> <p><i>Yuanyuan He (State Key Laboratory of Information Security, Institute of Information Engineering, CAS, P.R. China); Jianbing Ni (University of Waterloo, Canada); Ben Niu and Fenghua Li (State Key Laboratory of Information Security, Institute of Information Engineering, CAS, P.R. China); Sherman Shen (University of Waterloo, Canada)</i></p>
	<p>#2 Waze-Inspired Spectrum Discovery via Smartphone Sensing Data Fusion</p> <p><i>Sen Lin, Junshan Zhang and Lei Ying (Arizona State University, USA)</i></p>	<p>#1 Dynamic resource allocation in Radio-over-Fiber enabled dense cellular networks</p> <p><i>Bart Post and Sem Borst (Eindhoven University of Technology, The Netherlands); Ton Koonen (IPI, Eindhoven University of Technology, The Netherlands)</i></p>	<p>#2 Distributed Learning Algorithms for Coordination in a Cognitive Network in Presence of Jammers</p> <p><i>Suneet Sawant and Manjesh K Hanawal (IIT Bombay, India); Sumit Jagdish Darak (IIIT-Delhi, India); Rohit Kumar (NIT Delhi, India)</i></p>

	<p>#3 Delay Performance of MISO Wireless Communications</p> <p><i>Jesús Arnau (Huawei Technologies Co. Ltd. & Mathematical and Algorithmic Sciences Lab, France Research Center, France); Marios Kountouris (Huawei Technologies, France)</i></p>	<p>#2 Distributed Optimization in Fog Radio Access Networks — Channel Estimation and Multi-user Detection</p> <p><i>Qi He (University of Electronic Science and Technology of China, P.R. China); Qi Zhang (Nanjing University of Posts and Telecommunications, P.R. China); Tony Q. S. Quek (Singapore University of Technology and Design, Singapore); Zhi Chen and Shaoqian Li (University of Electronic Science and Technology of China, P.R. China)</i></p>	<p>#3 Cooperative Relay Beamforming for Control Channel Jamming in Vehicular Networks</p> <p><i>Pengwenlong Gu (TELECOM ParisTech, France); Cunqing Hua (Shanghai Jiao Tong University, P.R. China); Rida Khatoun (Telecom ParisTech, France); Yue Wu (Shanghai Jiaotong University, P.R. China); Ahmed Serhrouchni (ENST, France)</i></p>
	<p>#4 Hierarchical Scheduling Algorithms with Throughput Guarantees and Low Delay</p> <p><i>Peruru Subrahmanya Swamy (Indian Institute of Technology Madras, India); Aravind Srinivasan (University of Maryland, USA); Radha Krishna Ganti and Krishna P Jagannathan (Indian Institute of Technology Madras, India)</i></p>	<p>#3 Control of Multi-Resource Infrastructures: Application to NFV and Computation Offloading</p> <p><i>Yeongjin Kim (KAIST, Korea); Hyang-Won Lee (Konkuk University, Korea); Song Chong (KAIST, Korea)</i></p>	<p>#4 Differential Pricing of Traffic in the Internet</p> <p><i>Manjesh K Hanawal (IIT Bombay, India); Fehmina Malik (Indian Institute of Technology, Bombay, India); Yezekael Hayel (LIA, University of Avignon, France)</i></p>
16:20 - 16:40	Coffee Break	Coffee Break	Coffee Break
16:40 - 18:10	Session 4 (Chair: Stratis Ioannidis) Data collection and storage	Session 8 (Chair: Giuseppe Caire) Contents and crowdsourcing	Session 12 (Chair: Rahul Vaze) Packet scheduling/Quality of service
	<p>#1 Asymmetric Regenerating Codes for Heterogeneous Distributed Storage Systems</p> <p><i>Shan Qu (Shanghai Jiaotong University, P.R. China); Jinbei Zhang (Shanghai Jiao Tong University, China); Xinbing Wang (Shanghai Jiaotong University, P.R. China)</i></p>	<p>#1 Dynamic Cache Rental and Content Caching in Elastic Wireless CDNs</p> <p><i>Jeongho Kwak (Trinity College Dublin, Ireland); Georgios S. Paschos (Huawei Technologies, France); George Iosifidis (Trinity College Dublin, Ireland)</i></p>	<p>#1 Optimizing Age of Information in Wireless Networks with Perfect Channel State Information</p> <p><i>Rajat Talak, Sertac Karaman and Eytan Modiano (MIT, USA)</i></p>

	<p>#2 Effects of Storage Heterogeneity in Distributed Cache Systems</p> <p><i>Srinivas Reddy Kota (Indian Institute of Technology, Bombay, India); Sharayu Moharir and Nikhil Karamchandani (Indian Institute of Technology Bombay, India)</i></p>	<p>#2 Crowdsourcing: A Novel Approach to Organizing WiFi Community Networks</p> <p><i>Juan Liu (Harbin Institute of Technology, Shenzhen, P.R. China); Lin Gao (Harbin Institute of Technology (Shenzhen), P.R. China); Tong Wang, Xiao Zeng, Weipeng Lu and Yixuan Zhong (Harbin Institute of Technology, Shenzhen, P.R. China)</i></p>	<p>#2 Selective Fair Scheduling over Fading Channels</p> <p><i>Apostolos Destounis (Huawei Technologies France Research Center, France); Georgios S. Paschos (Huawei Technologies, France); David Gesbert (Eurecom Institute, France)</i></p>
	<p>#3 Uncoded Placement Optimization for Coded Delivery</p> <p><i>Sian Jin (Shanghai Jiao Tong University, P.R. China); Ying Cui (Shanghai Jiaotong University, P.R. China); Hui Liu (Shanghai JiaoTong University, P.R. China); Giuseppe Caire (Technische Universität Berlin, Germany)</i></p>	<p>#3 Analysis of QoE for Adaptive Video Streaming over Wireless Networks</p> <p><i>Sudheer Poojary and Rachid El-Azouzi (University of Avignon, France); Eitan Altman (INRIA, France); Albert Sunny (NEO team, INRIA Sophia Antipolis, France); Imen Triki, Majed Haddad and Tania Jimenez (University of Avignon, France); Stefan Valentin (Huawei Technologies, France); Dimitrios Tsilimantos (France Research Center, Huawei Technologies Co. Ltd., France)</i></p>	<p>#3 Scheduling URLLC Users with Reliable Latency Guarantees</p> <p><i>Apostolos Destounis (Huawei Technologies France Research Center, France); Georgios S. Paschos (Huawei Technologies, France); Jesús Arnau (Huawei Technologies Co. Ltd. & Mathematical and Algorithmic Sciences Lab, France Research Center, France); Marios Kountouris and Pierre-Louis Poirion (Huawei Technologies, France)</i></p>
	<p>#4 Cluster-based Wireless Energy Transfer for Low Complex Energy Receivers</p> <p><i>Samith Abeywickrama (Singapore University of Technology and Design, Singapore); Tharaka Samarasinghe (University of Moratuwa, Sri Lanka); Chau Yuen (Singapore University of Technology and Design, Singapore); Rui Zhang (National University of Singapore, Singapore)</i></p>		
Note:	Regular Papers 22 mins each		
	Invited Talk: 45 mins each		

	Keynote Talk: 1 hour		
	All above including Q&A		