The 6th Brainstorming Workshop on 5G Wireless – Program

Time	Agenda	
Sep 11, 2015		
8:00 – 8:50	**Registration: Building 1, Level 1, LT1**	
8:50 – 9:00	**Welcome**: Prof. **Tony Quek** (SUTD, SG)	
9:00 – 9:20	**Opening Address:** Prof. **Yeo Kiat Seng**, Associated Provost (Graduate Studies & International Relations), SUTD	
9:20 – 10:40	**Session 1**: **Roadmap and Recent Update on 5G. Moderator: Prof. Char-Dir Chung (National Taiwan Univ., TW)**	
20 min/talk	Speaker 1: Prof. **Xiaohu You** (Dean, Southeast Univ. / Secretary General, Future Forum, CN)	Millimeter-Wave Transceivers and Key Building Blocks for 5G
	Speaker 2: Prof. **Kiat Seng Yeo** (Associate Provost, SUTD, SG)	Wireless Sensor Networks: Technology and Applications
	Speaker 3: Dr. Prof. **Zhiyong Feng** (Director of Key Laboratory of Universal Wireless Communications, Beijing Univ. Post and Telecommunications, CN)	Resource Management and Latency Reduction Methods for MTC in 5G
	Speaker 4: Dr. **Bao Feng** (Director of Security and Privacy Lab, Huawei, SG)	5G Security and Privacy
10:40 – 11:00	**Coffee Break**	
11:00 – 12:00	**Session 2**: **Enabling Technologies: Network. Moderator: Prof. Zhiyong Feng (BUPT, CN)**	
12 min/talk	Speaker 1: Prof. **Vincent Lau** (Professor, HKUST, HK)	Networked Control with Energy Harvesting Sensors
	Speaker 2: Prof. **Kaibin Huang** (Assistant Professor,Univ. of Hong Kong,HK)	Energy Efficient Mobile Cloud Computing Powered by Wireless Energy Transfer
	Speaker 3: Dr. **Jemin Lee** (Temasek Research Fellow, SUTD, SG)	Wireless Physical Layer Security: Challenges for Future Networks
	Speaker 4: Prof. **Mugen Peng** (Professor, Beijing Univ. Post and Telecommunications, CN)	Radio Access Network Evolution in 5G: From HetNet to EC-RAN
	Speaker 5: Prof. **Phone Lin** (Professor, National Taiwan Univ., TW)	Machine Type Communications
20 min	Open Discussion	
12:20 – 13:30	**Buffet Lunch @SUTD**	
13:30 – 14:50	**Session 3**: **Enabling Technologies: Radio Access**. **Moderator: Prof. Bingli Jiao (Peking Univ., CN)**	
12 min/talk	Speaker 1: Prof. **Bingli Jiao** (Professor, Peking Univ., CN)	A Proposal for Network Implementation of Co-Frequency and Co-Time Full Duplex
	Speaker 2: Prof. **Char-Dir Chung** (Executive Secretary, Board of Science and Technology, Executive Yuan / Professor, National Taiwan Univ., TW)	Spectrally Precoded OFDM Without Guard Insertion
	Speaker 3: Prof. **Fanggang Wang** (Associate Professor, Beijing Jiaotong Univ., CN)	A Novel Preamble Design for 5G Contention-based Uplink

	Speaker 4: Prof. **Gang Wu** (Professor, Univ. of Electronic Science and Technology of China, CN)	Filtered OFDM and SCMA for 5G Wireless Access
	Speaker 5: Prof. **Chih-Peng Li** (Professor, National Sun Yat-sen Univ., TW)	Elimination of Data Identification Problem for Data-Dependent Superimposed Training
20 min	Open Discussion	
14:50 – 16:10	**Session 4**: **Enabling Technologies: Services**. **Moderator: Prof. Vincent Lau (HKUST, HK)**	
12 min/talk	Speaker 1: Dr. **Ying Chang Liang** (Principal Scientist, Institute for Infocomm Research, SG)	5G in Unlicensed Spectrum
	Speaker 2: Prof. **Min Sheng** (Professor, Xidian Univ., CN)	BigSON: Big Data Meets Self Organization
	Speaker 3: Prof. **Meixia Tao** (Professor, Shanghai Jiaotong Univ., CN)	Physical Layer Multicasting and Caching towards Content-Centric Wireless Networks
	Speaker 4: Prof. **Wenyi Zhang** (Professor, Univ. of Science and Technology of China, CN)	How Good Need Your Transceivers Be?
	Speaker 5: Prof. **Lingyang Song** (Professor, Peking Univ., CN)	Full-Duplex Cognitive Radio: A New Design Paradigm for Enhancing Spectrum Usage
20 min	Open Discussion	
16:10 – 16:30	**Coffee Break**	
16:30 – 17:50	**Session 5**: **Revolution Technologies in 5G.** **Moderator**: **Prof. Hsuan-Jung Su (National Taiwan Univ., TW)**	
12 min/talk	Speaker 1: Prof. **Hsuan-Jung Su** (Professor, National Taiwan Univ., TW)	Channel Feedback Reduction for Multiuser MIMO Systems
	Speaker 2: Prof. **Jianhao Hu** (Vice Director, Univ. of Electronic Science and Technology of China, CN)	Next Generation Computation Architecture on Chip for 5G
	Speaker 3: Prof. **Liqiang Zhao** (Professor, Xidian Univ., CN)	Software Defined and Virtualized Radio Access Network
	Speaker 4: Prof. **Yik-Chung Wu** (Associate Professor, Univ. of Hong Kong, HK)	Distributed CFOs Estimation in Wireless Networks via Belief Propagation
	Speaker 5: Prof. **Shaodan Ma** (Assistant Professor, Univ. of Macau, MO)	Analysis on Full Duplex Amplify-and-Forward Relay Networks under Nakagami Fading Channels
20 min	Open Discussion	
17:50 – 18:30	**Wrap-Up Session.** **Moderator**: **Prof. Russell Hsing (NCTU, TW)**	
18:30 – 20:30	**Dinner @East Coast Jumbo Restaurant** (Invited Guests Only)	