

Program at a Glance:

Schedule		Wednesday, November 12		
GMT 12:00-12:30	Opening: Conference Chairs			
GMT 12:30-13:30	Keynote Talk I: Dr. Flavio Cucchietti, Energy Challenges and Opportunities for Telecom Provider Networks			
GMT 13:30-14:30	Exhibit Opening			
GMT 15:30-17:30	Session W1A: Technical Session: Optical Transport and Core Network		Session W1B: Technical Session: Sensor Networks/RFID/Smart Grid I	
	Impact of Energy Saving Techniques on a Device Lifetime	Dr. Paolo Monti (KTH Royal Institute of Technology, Sweden)	A User-Centric System Architecture for Residential Energy Consumption	Nikolaos Vastardis, Riccardo Russo, Kun Yang (University of Essex, United Kingdom) Mounir Adjrads, Kathryn E Buchanan, Zhining Liao, Mohammad Ghavami, Sandra Dudley, Christian Koch (London South Bank University, United Kingdom) Ben Anderson (University of Southampton, United Kingdom)
	GreenTouch Green Meter Core Network Power Consumption Models and Results	Dr. J.M.H. Elmirghani (University of Leeds, UK)		
	Towards Enabling Green Routing Services in Real Networks	Myriana Rifai (I3S/CNRS UMR 7271 Sophia Antipolis, France) Dino Martin Lopez Pacheco, Guillaume Urvoy-Keller (Université de Nice Sophia-Antipolis, France)	On the Complexity of Optimal Electric Vehicles Recharge Scheduling	Cristina E.M. Rottondi (Politecnico di Milano, Italy) Giovanni Neglia (INRIA Sophia Antipolis Mediterranee, France) Giacomo Verticale (Politecnico di Milano, Italy)
	On the Energy-Efficient Multidimensional Coded Modulation for Optical	Dr. Ivan Djordjevic (University of Arizona, USA)	A Multi-Armed Bandit Formulation for Distributed Appliances Scheduling in	Antimo Barbato (Politecnico di Milano, Italy) Lin Chen, Fabio Martignon

	Transport Networks		Smart Grids	(Université Paris-Sud, France) Stefano Paris (Université Paris Descartes - Sorbonne Paris Cité, France)
			Negotiation-Based Task Scheduling to Minimize User's Electricity Bills Under Dynamic Energy Prices	Ji Li, Yanzhi Wang, Tiansong Cui, Shahin Nazarian, Massoud Pedram (University of Southern California, USA)
GMT 17:30-19:00	Virtual Tour: Biosphere 2			
Schedule	Thursday, November 13			
	Session T1: Technical Session: Wireless Access I			
	Anticipatory Power Cycling of Mobile Network Equipment for High Demand Multimedia Traffic		Martin Dräxler, Philipp Dreimann, Holger Karl (University of Paderborn, Germany)	
	Analytical Outage Performance of Cognitive Small Cell Network		Mukesh Kumar Mishra, Aditya Trivedi (ABV-Indian Institute of Information Technology and Management Gwalior, India)	
GMT 08:00-10:00	An Energy-Efficient WiFi Offloading Model in a Heterogeneous Network		Byoung Hoon Jung, Nah-Oak Song, Dan Keun Sung (Korea Advanced Institute of Science and Technology, Korea)	
	Time Reversal and Equal Gain Transmission for 60 GHz millimeter waves Orthogonal Frequency-Division Multiplexing systems		Marc-Antoine Bouzigues (Orange Labs, Institut National des Sciences Appliquées, France) Isabelle Siaud (Orange Labs, Research and Development, Access Networks, France) Maryline Héléard (INSA Rennes, IETR Institute of Electronics and Telecommunications of Rennes, France) Anne-Marie Ulmer-Moll (Orange Labs, France)	
GMT 10:00-11:00	Exhibitions			
	Session T2: Technical Session: Wireless Access II			
GMT 11:30-13:00	Modeling the Hardware Power Consumption of		Dr. Claude Desset (IMEC, Belgium)	

	Large Scale Antenna Systems			
	Adaptive LSAS Transmission for Energy Optimisation in Low Density Cellular Networks		Dr. Emad Alsusa (University of Manchester, UK)	
	TBA		Dr. Leandros Tassioulas (University of Thessaly, Greece)	
GMT 13:00-15:00	Session T3: Industry Panel - Moderator - Fabrice Bourgart, FT Orange Labs			
GMT 15:15-16:30	Tutorial I: Dr. Thomas Haustein, Dr. Kei Sakaguchi, Millimeter-wave for 5G Cellular Networks			
GMT 16:30-17:30	Keynote Talk II: Prof. John Bowers, Reducing Datacom Power Consumption Using Integration and Circuit Switching			
GMT 17:30-18:30	Keynote Talk III: Prof. Victor Leung, Green IoT			
GMT 18:30-19:30	Networking			
GMT 19:30-21:00 EST 14:30-16:00	Session T4: Technical Session: Metro Access, Home, User Terminals, and Data Centers I			
	Energy-Efficient Indoor Networks		Dr. Leonid Kazovsky (Stanford University, USA)	
	Dynamic Planning with Balanced Energy Efficiency for Network Operators and Mobile Users		Muhammad Ismail, Mohamed Kashef, Khalid A. Qaraqe (Texas A&M University at Qatar, Qatar) Erchin Serpedin (Texas A&M University, USA)	
	Energy-Aware Scheduling Schemes for Cloud Data Centers on Google Trace Data		Ziqian Dong, Wenjie Zhuang (New York Institute of Technology, USA) Roberto Rojas-Cessa (New Jersey Institute of Technology, USA)	
Schedule Friday, November 14				
	Session F1A: Technical Session: Metro Access, Home, User Terminals, and Data Centers II		Session F1B: Technical Session: Wireless III	
GMT 7:30-9:00	A User Scheduling Scheme for Reducing Electromagnetic (EM) Emission in the Uplink of Mobile	Yusuf Sambo (University of Surrey Centre for Communication Systems Research CCSR, United Kingdom)	Energy-Efficient Resource Allocation of Wireless Systems with Statistical QoS Requirement	Changyang She, Chenyang Yang (Beihang University, P.R. China) Lingjia Liu

	Communication Systems	Fabien Héliot, Muhammad Ali Imran (University of Surrey, United Kingdom)		(University of Kansas, USA)
	A Real-Time Middleware Platform for the Smart Grid	Tatjana Predojevic, Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya (CTTC), Spain) Adel Al-Hezmi (Fraunhofer Institute Fokus, Germany) Mischa Dohler (King's College London, United Kingdom)	5G - How Radical Can It Be?	Prof. Matti Latva-aho (University of Oulu, Finland)
	CBI: a Scalable Energy Efficient Protocol for Metro/Access Networks	Dr. Scott Xin Yin (IMEC, Belgium)	The Impact of Cooperation on Local Delay and Energy Efficiency of Poisson Networks	Prof. Wenyi Zhang (University of Science and Technology of China, China)
GMT 9:00-10:00	Keynote Talk IV: Prof. Chenyang Yang, Energy efficient Resource Utilization in 5G wireless systems			
GMT 10:00-10:45	Tutorial II: Dr. Rui Zhang, Cost-Aware Green Cellular Networks with Energy and Communication Cooperation			
GMT 11:00-12:30	Exhibitions			
GMT 13:00-15:00	Session F2A: Technical Session: Towards 5G I		Session F2B: Technical Session: Sensor Networks/RFID/Smart Grid II	
	The Performance of the Macro-assisted Data-Only Carrier System in 5G Energy-Efficient Heterogeneous Networks	Dr. Wang Wenbo (Beijing University of Posts and Telecommunications, China)	Wireless Power Transfer and Communication for Sensors: Dynamic Frame-Switching (DFS) Policy	Dr. Sun Sumei (I2R, Singapore)
	Energy and Resource efficient ICT at Service Providers	Dr. Marcus Brunner (Swisscom, Switzerland)	Future Passive RFID Systems	Prof. Thomas Kaiser (University of Duisburg-Essen, Germany)
	Achieving Green LTE-A HetNets with D2D Traffic Offload and Renewable	Elias Yaacoub (Qatar Mobility Innovations Center (QMIC), Qatar)	A Game Theoretical Approach for Cooperative	Hakim Ghazzai, Mohamed-Slim Alouini (King Abdullah University

	Energy Powered Small Cell BSs		Environmentally Friendly Cellular Networks Powered by the Smart Grid	of Science and Technology (KAUST), Saudi Arabia Elias Yaacoub (Qatar Mobility Innovations Center (QMIC), Qatar)
	Defining Future 5G Mobile Compute and Communications	Dr. Geng Wu (Intel, USA)	RF Energy Harvesting Enabled Power Sharing in Relay Networks	Xueqing Huang, Nirwan Ansari (New Jersey Institute of Technology, USA)
	Session F3: Demo Sessions			
GMT 15:00-16:30	A Demonstration of Energy Efficient Optical Networks for Cloud Computing using Software-Defined Provisioning		C. DeCusatis, R. Cannistra, B. Carle. (Marist College, Poughkeepsie, NY)	
	WiFi-Based Platform for Energy Saving in Wireless Networks		Malek Naoues , Hadi Noureddine, Honggang Zhang (Universite Europeenne de Bretagne (UEB), Rennes, France) Quentin Bodinier , Jacques Palicot (Supelec/IETR, Cesson-S'évigne Cedex, France)	
GMT 17:00-17:30	Closing: Conference Awards			