

Time	Room 201	Room 005	Room 019	Room 223	Room 014	Room 004
8:30 - 18:00	Registration (Building of the Faculty of Electronics and Telecommunications, Polanka 3)					
9:00 - 10:30	Tutorial 1 (part 1) Emerging Topics in 5G Networks: Spectral and Energy Efficient Network Architecture, Transceiver and Algorithm Design	Tutorial 2 (part 1) Rate Splitting for MIMO Wireless Networks: A Promising PHY-Layer Strategy for 5G	Tutorial 3 (part 1) Energy-Neutral System-Level Analysis and Optimization of 5G Wireless Networks	Tutorial 4 (part 1) Coding and Modulation for Communication at the Ultimate Shannon Limit	Workshop 2 (part 1) SAS5G: Workshop on Spectrum Aggregation and Sharing for 5G Networks	National Instruments workshop (Part 1)
10:30 - 11:00	Coffee break					
11:00 - 12:30	Tutorial 1 (part 2)	Tutorial 2 (part 2)	Tutorial 3 (part 2)	Tutorial 4 (part 2)	Workshop 2 (part 2)	National Instruments workshop (Part 2)
12:30 - 13:30	Lunch: Lobby of the Faculty of Electronics and Telecommunications					
13:30 - 15:00	Tutorial 1 (part 3)	Tutorial 5 (part 1) Full-Duplex Techniques for 5G and Beyond	Tutorial 6 (part 1) Fronthaul Compression for Cloud Radio Access Networks	Workshop 1 (part 1) CorNer: Workshop on Communication for Networked Smart Cities (part 1)	Workshop 2 (part 3)	National Instruments workshop (Part 1)
15:00 - 15:30	Coffee break					
15:30 - 17:00	Tutorial 1 (part 4)	Tutorial 5 (part 2)	Tutorial 6 (part 2)	Workshop 1 (part 2)	Workshop 2 (part 4)	National Instruments workshop (Part 2)
17:30 - 19:30	Welcome reception: in conjunction with visits to the faculty labs					

Time				
8:00 - 18:00	Registration (Poznań University of Technology Lecturing & Conference Center, Piotrowo 2)			
9:00 - 9:45	Opening ceremony (C-7)			
9:45 - 11:15	Plenary Session I (C-7): Prof. Adam Wolisz , TU Berlin/University of Berkeley Dr. Patrick Marsch , Nokia Bell Labs, Poland			
11:15 - 11:45	Coffee break (Room 53)			
11:45 - 13:15	<u>Session 1</u> MIMO Systems (C-7)	<u>Session 2</u> New Waveforms (1) (C-12)	<u>Session 3</u> Network and Channel Coding (C-13)	<u>Session 4</u> Multiple Access and Resource Allocation (C-6)
13:15 : 14:30	Lunch Room 53 (Room 53)			
14:30 - 16:00	<u>Session 5</u> mmWave Communications (C-7)	<u>Special Session 1</u> PAPR Reduction and Power Amplifier Linearization for Energy Efficient 5G Networks (C-12)	<u>Special Session 2</u> Non-Orthogonal Access for 5G (C-13)	<u>Session 6</u> Wireles Power Transfer and Energy Harvesting (C-6)
16:00 - 16:30	Coffee break (Room 53)			
16:30 - 17:30	Industrial session 1 (C-7): Nokia Huawei			
19:30 - 22:00	Poznań: The city of music Concert and reception at Academy of Music Concert Hall			

Demos and Exhibitions (Hall)

Time				
8:00 - 18:00	Registration (Poznań University of Technology Lecturing & Conference Center, Piotrowo 2)			
9:00 - 10:30	<u>Session 7</u> Full Duplex Communications (C-7)	<u>Session 8</u> New Modulation Schemes (C-12)	<u>Special Session 3</u> Techniques and Technologies for Smart Environments (C-13)	<u>Session 9</u> Traffic Management in Future Networks (C-6)
10:30 - 11:00	Coffee break (Room 53)			
11:00 - 12:30	Plenary 2 (C-7):	Prof. Ruediger Urbanke , EPFL, Switzerland	Prof. Erik Stroem , Chalmers University, Sweden	
12:30 - 13:45	Lunch (Room 53)			
13:45 - 15:15	Panel (C-7):	5G Design: From Radio to Architecture" led by the 5G-PPP representative, Dr. Werner Mohr from NOKIA. Panelists: 5G NORMA panelist, Markus Breitbach, Deutsche Telekom; 5G XHaul panelist, Jesus Gutierrez Teran, IHP; FANTASTIC 5G Panelist, Thorsten Wild, Nokia; mmMAGIC Panelist, Maziar Nekovee, Samsung		
15:15 - 15:45	Coffee break (Room 53)			
15:45 - 17:15	<u>Session 10</u> Wireless Communications in Transportations (C-7)	<u>Session 11</u> New Waveforms (2) (C-12)	<u>Special Session 4</u> Low Power Design Techniques for Embedded Systems (C-13)	<u>Special Session 5</u> Trade-offs of Green Networking - From The Access to the Core (C-6)
17:15 - 17:30	Short break			
17:30 - 18:30	Industrial session 2 (C-7):	Systemics PAB	INEA	
20:00 - 23:00	Gala dinner with best paper awards			

Demos and Exhibitions (Hall)

Time					
8:00-15:30	Registration (Poznań University of Technology Lecturing & Conference Center, Piotrowo 2)				Demos and Exhibitions (Hall)
9:00 - 10:30	<u>Session 12</u> WiFi Technology (C-7)	<u>Session 13</u> Wireless Network Design and Optimization (C-12)	<u>Session 14</u> Ad-hoc and Sensor Networks (C-13)	<u>Special Session 6</u> New Methods for Wireless LANs (C-6)	
10:30 - 11:00	Coffee break (Room 53)				
11:00 - 12:30	Plenary 3 (C-7): Prof. Andrea Goldsmith , Stanford University, USA Prof. Alexander Wygliński , Worcester Polytechnic Institute, USA				
12:30 - 13:45	Lunch Room 53 (Room 53)				
13:45 - 15:15	<u>Session 15</u> Relay Issues (C-7)	<u>Session 16</u> Channel Equalization, Prediction and Tracking (C-12)	<u>Session 17</u> Antennas, Radars and Propagation (C-13)	<u>Session 18</u> Traffic and Protocols (C-6)	
15:15 - 15:30	Closing ISWCS 2016				

Wednesday, September 21st, 2016

Session 1 (11:45-13:15): MIMO Systems

1. *A large system analysis of weighted sum rate maximization of single stream MIMO interference broadcast channels under linear precoding*
Wassim Tabikh and Dirk Slock (EURECOM, France); Yi Yuan-Wu (Orange Labs, France)
2. *Comparison between a Hybrid Digital and Analog Beamforming System and a Fully Digital Massive MIMO System with Adaptive Beamsteering Receivers*
Antoine Rozé (Bcom, France); Matthieu Crussière (IETR - Electronics and Telecommunications Research Institute of Rennes (IETR) & INSA - National Institute of Applied Sciences, France); Maryline Hérald (INSA Rennes & IETR Institute of Electronics and Telecommunications of Rennes, France); Charlotte Langlais (Telecom Bretagne, France)
3. *Achieving the optimal DoF with delayed and imperfect CSIT for the 3x2 X-Channel*
Jaber Kakar (Ruhr-Universitaet Bochum, Germany); Zohaib Awan (RUB, Germany); Aydin Sezgin (RUB & Digital Communication Systems, Germany)
4. *Time Reversal with Post-Equalization for OFDM without CP in Massive MIMO*
Arman Farhang (CONNECT, Trinity College Dublin, Ireland); Amir Aminjavaheri and Ahmad RezazadehReyhani (University of Utah, USA); Linda Doyle (Trinity College Dublin, Ireland); Behrouz Farhang-Boroujeny (University of Utah, USA)
5. *Exploiting MIMO Vertical Diversity in a 3D Vehicular Environment*
Jayashree Thota (University of Bristol, United Kingdom); Reham Almesaeed (University of Bristol, United Kingdom); Angela Doufexi, Simon Armour and Andrew Nix (University of Bristol, United Kingdom)

Session 2 (11:45-13:15): New Waveforms (1)

1. *Blind Equalization using Constant Modulus Algorithm Adapted to OFDM/OQAM Modulation*
Faouzi Bader (CentraleSupélec, France); Vincent Savaux (B-COM, France); Malek Naoues (Edison Ways, France)
2. *Output SNR Analysis and Detection Criteria for Optimum DCT-Based Multicarrier System*
Chang He and Lei Zhang (University of Surrey, United Kingdom); Juquan Mao (University of Surrey & London Southbank University, United Kingdom); Aijun Cao (ZTE Wistron Telecom AB, Sweden); Pei Xiao and Muhammad Ali Imran (University of Surrey, United Kingdom)
3. *On Joint Modulation Design in Two-user Non-orthogonal Multiple Access Channel*
Benjamin Ng and Chan-Tong Lam (Macao Polytechnic Institute, Macao)
4. *Impact of RF transmitter hardware on 5G waveforms: Signal conditionings for UF-OFDM*
Xin Yu (Nokia, Bell Laboratories, Germany); Thorsten Wild and Frank Schaich (Nokia Bell Labs, Germany)

Session 3 (11:45-13:15): Network and Channel Coding

1. *On the Reed-Muller Rule Under Channel Polarization*

Christopher Schnelling and Anke Schmeink (RWTH Aachen University, Germany)

2. *List-Output Priority-First Sequential Decoding for Physical-Layer Network Coding*

Xiaokang Wang (Hongkong University of Science and Technology, Hong Kong); Wai Ho Mow (Hong Kong University of Science and Technology & HKUST, Hong Kong); Yunghsiang Sam Han (National Taiwan University of Science and Technology, Taiwan)

3. *Space-Time Codes Based on Rank-Metric Codes and Their Decoding*

Sven Puchinger, Sebastian Stern, Martin Bossert and Robert F.H. Fischer (Ulm University, Germany)

4. *Polynomial-complexity GLRT-optimal noncoherent PNC*

Maria Gkizeli and George N. Karystinos (Technical University of Crete, Greece)

5. *MMSE Analysis and Soft Demapping for Coded MIMO-OFDM Systems*

Mahmoud Abdullahi and Pei Xiao (University of Surrey, United Kingdom)

Session 4 (11:45-13:15): Multiple Access and Resource Allocation

1. *Two-Step Resource Allocation for BIC-UFMC Wireless Communications*

Carmine Vitiello and Paolo Del Fiorentino (University of Pisa, Italy); Erica Debels (Ghent University, Belgium); Vincenzo Lottici, Filippo Giannetti and Marco Luise (University of Pisa, Italy); Marc Moeneclaey (Ghent University, Belgium)

2. *Optimized Zone Design for Location-based Resource Allocation in Mobile D2D Underlay Networks*

Mladen Botsov (BMW Group Research and Technology & Technische Universität Berlin, Germany); Slawomir Stanczak (Fraunhofer Heinrich Hertz Institute & Technische Universität Berlin, Germany); Peter Fertl (BMW Group Research and Technology, Germany)

3. *Ultra-Reliable Communications in Failure-Prone Realistic Networks*

Guillermo Pocovi and Mads Lauridsen (Aalborg University, Denmark); Beatriz Soret (Nokia Networks, Denmark); Klaus Pedersen (Nokia - Bell Labs, Denmark); Preben Mogensen (Nokia Siemens Networks, Aalborg, Denmark)

4. *Non-Orthogonal FQAM for Multiple Access in the Uplink of 5G Wireless Networks*

Mohammed Al-Imari (Samsung Electronics R&D Institute UK, United Kingdom); Belkacem Mouhouche (Samsung Electronics Research and Development UK, United Kingdom); Maziar Nekovee (Samsung Electronics, United Kingdom)

5. *Interference Alignment in Heterogeneous Networks with Macro-to-Picocell Offloaded Users*

Micael Bernhardt (Universidad Nacional del Sur & Universidad Nacional de Misiones, Argentina); Fernando Gregorio and Juan E. Cousseau (Universidad Nacional del Sur, Argentina); Taneli Riihonen and Risto Wichman (Aalto University School of Electrical Engineering, Finland)

Session 5 (14:30-16:00): mmWave Communications

1. *Full Rank Spatial Channel Estimation at Millimeter Wave Systems*

Hsiao-Lan Chiang (Technical University of Dresden, Germany); Wolfgang Rave (Dresden University of Technology, Germany); Tobias Kadur (Technische Universität Dresden, Germany); Gerhard Fettweis (Technische Universität Dresden, Germany)

2. *Channel Estimation in Millimeter Wave MIMO Systems: Sparsity Enhancement via Reweighting*

Samip Malla and Giuseppe Abreu (Jacobs University Bremen, Germany)

3. *Transmit Power Minimization in Multi-User Millimeter Wave Systems*

Samip Malla and Giuseppe Abreu (Jacobs University Bremen, Germany)

4. *Towards 100 Gbps wireless communication: energy efficiency of ARQ, FEC, and RF-frontends*

Lukasz Lopacinski (BTU Cottbus, Germany); Steffen Büchner (Brandenburgische Technische Universität Cottbus-Senftenberg, Germany); Jörg Nolte (BTU Cottbus, Germany); Marcin Brzozowski (IHP, Germany); Rolf Kraemer (IHP Microelectronics, Frankfurt/Oder & BTU-Cottbus, Germany)

Special Session 1 (14:30-16:00): PAPR Reduction and Power Amplifier Linearization for Energy Efficient 5G Network

1. *Investigation of AM-AM Performance in CMOS Digital Power Amplifiers*

Rui Gomes (FEUP, Portugal); Candido Duarte (INESC TEC & FEUP, Portugal); José Pedro (ITA, Portugal)

2. *PA Linearization of FBMC-OQAM Signals with Overlapped Recursive Error Correcting Predistortion*

S S Krishna Chaitanya Bulusu (Conservatoire National des Arts et Metiers, France); Hmaied Shaiek (CNAM, France); Daniel Roviras (Cnam, France)

3. *Spectral Performances of PAPR Reduced FBMC/OQAM Signals*

Agathe Valette (ETIS, ENSEA, Université Cergy-Pontoise, CNRS & Thales Communications & Security, France); Myriam Ariaudo (ETIS, ENSEA, Université Cergy-Pontoise, CNRS, France); Lounis Zerioul (ETIS/ENSEA/Université Cergy Pontoise, CNRS, France); Inbar Fijalkow (ETIS / ENSEA - University Cergy-Pontoise - CNRS, France); Sylvain Traverso (Thales Communications, France); Antonio M. Cipriano (Thales Communications and Security, France)

4. *PAPR reduction and digital predistortion for non-contiguous waveforms with well-localized spectrum*

Mahmoud Abdelaziz, Lauri Anttila, Markku K. Renfors and Mikko Valkama (Tampere University of Technology, Finland)

5. *Influence of Filter-bank RF Transceiver Chain Imperfections on Digital Predistortion Performanc*

Tomas Gotthans, Roman Marsalek and Jakub Gotthans (Brno University of Technology, Czech Republic); Geneviève B. Baudoin (ESIEE, France)

Special Session 2 (14:30-16:00): Non-Orthogonal Access for 5G

1. *Coexistence of Filter Banks and CP-OFDM: What are the Real Gains?*

Quentin Bodinier (CentraleSupélec/IETR, France); Faouzi Bader (CentraleSupélec, France); Jacques Palicot (CentraleSupélec/IETR, France)

2. *Modulo-lattice Coding for Non-Orthogonal Access*

Meryem Benammar (HUAWEI Technologies France, France); Abdellatif Zaidi (Université Paris-Est Marne La Vallée, France); Jean-Claude Belfiore (Telecom Paristech & Huawei Technologies, France)

3. *On the Number of Users Served in MIMO-NOMA Cellular Networks*

Wonjae Shin (Seoul National University, Korea); Mojtaba Vaezi (Princeton University, USA); Jungwoo Lee (Seoul National University, Korea); H. Vincent Poor (Princeton University, USA)

4. *A Game Theory Approach for User Grouping in Hybrid Non-Orthogonal Multiple Access Systems*

Kaidi Wang, Zhiguo Ding and Wei Liang (Lancaster University, United Kingdom)

5. *On Adaptive Access and Relay Link Resource Allocation for In-band Deployments*

Alexander Sayenko (Samsung Electronics, Finland); Mikhail Zolotukhin and Timo Hämäläinen (University of Jyväskylä, Finland)

Session 6 (14:30-16:00): Wireless Power Transfer and Energy Harvesting

1. *Hybrid Backscatter Communication for Wireless Powered Communication Networks*

Sung Hoon Kim (SungKyunKwan University, Korea); Dong In Kim (Sungkyunkwan University (SKKU), Korea)

2. *Simultaneous Information and Power Transfer with Transmitters with Hardware Impairments*

Ayca Ozelikkale, Tomas McKelvey and Mats Viberg (Chalmers University of Technology, Sweden)

3. *Optimization and Analysis of WLAN RF Energy Harvesting System Architecture*

Syeda Munir and Osama Amjad (Ozyegin University, Istanbul, Turkey); Engin Zeydan (Türk Telekom Labs, Turkey); Ali Ozer Ercan (Ozyegin University, Turkey)

4. *Energy-Efficient Algorithm Based on Multi-Dimensional Energy Space for Software-Defined Wireless Sensor Networks*

Liao Wenxing and Wu Muqing (Beijing University of Posts and Telecommunications, P.R. China); Wu Yuewei (Beijing University of Post and Telecommunication, P.R. China)

Thursday, September 22nd, 2016

Session 7 (9:00-10:30): Full Duplex Communications

1. *Distortion-Loop-Aware Amplify-and-Forward Full-Duplex Relaying with Multiple Antennas*
Omid Taghizadeh (RWTH Aachen University, Germany); Tianyu Yang (Institute for Theoretical Information Technology, RWTH Aachen, Germany); Ali Cagatay Cirik (University of British Columbia, Canada); Rudolf Mathar (RWTH Aachen University, Germany)
2. *Can Full Duplex reduce the discovery time in D2D Communication?*
Marta Gatnau Sarret (Aalborg University & Nokia, Denmark); Gilberto Berardinelli and Nurul H. Mahmood (Aalborg University, Denmark); Beatriz Soret (Nokia Networks, Denmark); Preben Mogensen (Aalborg University, Denmark)
3. *Theoretical Analysis of Full-Duplex System with Power Control*
Mohammed Al-Imari (Samsung Electronics R&D Institute UK, United Kingdom)
4. *Robust Weighted Sum Rate Maximization over Full Duplex Multi-User MIMO Systems Under Imperfect CSIT*
Yohannes Jote Tolossa and Giuseppe Abreu (Jacobs University Bremen, Germany)

Session 8 (9:00-10:30): New Modulation Schemes

1. *Coded Generalized Spatial Modulation for Structured Large Scale MIMO Systems*
Daniel Franz (Universität Rostock, Germany); Volker Kuehn (University of Rostock, Germany)
2. *Faster than Sphere (Decoder). A Demodulation Algorithm for Multidimensional Constellations*
Tomasz Markiewicz (Poznań University of Technology, Poland)
3. *Sphere-Decoding Aided SIC for MIMO-GFDM: Coded Performance Analysis*
Maximilian Matthé (Technical University Dresden, Germany); Dan Zhang and Gerhard Fettweis (Technische Universität Dresden, Germany)
4. *Interference analysis of FFT-FBMC scheme in time asynchronous contexts*
Rostom Zakaria and Didier Le Ruyet (CNAM, France)
5. *Double Spatial Modulation: A High-Rate Index Modulation Scheme for MIMO Systems*
Zehra Yigit and Ertugrul Basar (Istanbul Technical University, Turkey)

Special Session 3 (9:00-10:30): Techniques and Technologies for Smart Environments

1. *Finding the Distribution of Users in a Cell from Smart Phone Based Measurements*
Per H. Lehne (Telenor Research, Norway); Andrés Alayon Glazunov (Chalmers University of Technology, Sweden); Kristian Karlsson (SP Technical Research Institute of Sweden, Sweden)

2. *A Measurement Based Evaluation of Feedback-Less MTC Using FBMC-OQAM*

Maxim Penner, Martin Fuhrwerk and Jürgen Peissig (Leibniz Universität Hannover, Germany)

3. *Network Coding for Reliable Downlink Transmissions in Industrial Wireless Sensor and Actuator Networks*

Jing Yue (The University of Sydney, Australia); Svetlana Girs, Johan Åkerberg and Mats Björkman (Malardalen University, Sweden); Zihuai Lin (University of Sydney, Australia)

4. *Delay Tolerant Networking for Smart City Through Drones*

Colian Giannini (University of Bologna, Italy); Ali Shaaban (Unibo, Italy); Chiara Buratti and Roberto Verdone (University of Bologna, Italy)

5. *A Stackelberg Game Based Task Offloading Mechanism for ad-hoc Based Mobile Cloud Computing*

Li Tianze, Wu Muqing and Min Zhao (Beijing University of Posts and Telecommunications, P.R. China)

Session 9 (9:00-10:30): Traffic Management in Future Networks

1. *Accurate Traffic Shaping Algorithms for IEEE 802.16-2012 Based WiMAX Networks*

Volker Richter (Technische Universität Dresden, Germany)

2. *On Network Coded Distributed Storage: How to Repair in a Fog of Unreliable Peers*

Juan A Cabrera (Technische Universität Dresden, Germany); Daniel E. Lucani (Aalborg University, Denmark); Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany)

3. *Flexible Capacity and Traffic Management for Hybrid Satellite-Terrestrial Mobile Backhauling Networks*

Jesus Mendoza (Polytechnic University of Catalonia, Spain); Ramon Ferrús and Oriol Sallent (Universitat Politècnica de Catalunya, Spain)

4. *A Modulated Throughput Driven Rate Adaptation Algorithm for Dynamic HTTP Streaming*

Venkata Phani Kumar M and Sudipta Mahapatra (Indian Institute Technology, Kharagpur, India)

Session 10 (15:45-17:15): Wireless Communications in Transportation

1. *STFDMA: A Novel Technique for Ad-Hoc V2V Networks Exploiting Radio Channels Frequency Diversity*

Miguel Angel Gutierrez-Estevez (Fraunhofer Heinrich Hertz Institute, Germany); David Gozalvez-Serrano (BMW Group Research and Technology, Germany); Mladen Botsov (BMW Group Research and Technology & Technische Universität Berlin, Germany); Slawomir Stanczak (Fraunhofer Heinrich Hertz Institute & Technische Universität Berlin, Germany)

2. *Reliable Message Forwarding in VANETs for Delay-Sensitive Applications*

Karsten Roscher (Fraunhofer ESK, Germany); Gerhard Maierbacher (Fraunhofer Institute for Embedded Systems and Communication Technologies ESK, Germany)

3. *Cellular Network Quality Improvements for High Speed Train Passengers by on-board Amplify-and-Forward Relays*

Taulant Berisha, Philipp Svoboda and Christoph F Mecklenbräuker (Vienna University of Technology, Austria); Stephan Ojak (OEBB Technische Services GmbH, Austria)

4. *First Analysis of Inside Train Communication with ITS-G5 Measurement Data*

Mohammad Soliman (Deutsches Zentrum für Luft- und Raumfahrt, Germany); Paul Unterhuber (German Aerospace Center (DLR), Germany); Damini Gera (Technische Universität Ilmenau, Germany)

Session 11 (15:45-17:15): New Waveforms (2)

1. *Phase Offset Estimation of SOQPSK waveform by the Analysis of the Angle Distribution*

Rami Othman (CentraleSupélec/IETR & Zodiac Data Systems, France); Alexandre Skrzypczak (Zodiac Data Systems, France); Yves Louet (CentraleSupélec, France)

2. *Performance of Soft-Decision Linear Receivers for Spatial-Multiplexing FBMC/OQAM*

David Demmer and Jean-Baptiste Doré (CEA, France); Didier Le Ruyet (CNAM, France); Robin Gerzaguet (CEA-Leti, France)

3. *Low-complexity Lattice Reduction Aided Detection for Generalised Spatial Modulation*

Yumeng Bao and Li Zhang (University of Leeds, United Kingdom); Renhong Xie (Nanjing University of Science and Technology, P.R. China); Raymundo Ramirez-Gutierrez (University of Leeds, United Kingdom)

4. *System Level 5G Evaluation of GFDM Waveforms in an LTE-A Platform*

Ghaith Al-Juboori, Angela Doufexi and Andrew Nix (University of Bristol, United Kingdom)

Special Session 4 (15:45-17:15): Low Power Design Techniques for Embedded Systems

1. *Efficient Modelling of FPGA-based IP blocks using Neural Networks*

Jordane Lorandel (INSA Rennes, France); Jean-Christophe Prévotet (INSA, France); Maryline Héliard (INSA Rennes & IETR Institute of Electronics and Telecommunications of Rennes, France)

2. *Implementation and Analysis of a Turbo-FSK transceiver for a new Low Power Wide Area Physical Layer*

Jérémy Estavoyer and Yoann Roth (CEA-Leti, France); Jean-Baptiste Doré (CEA, France); Vincent Berg (CEA LETI, France)

3. *Accurate Measurement of Power Consumption Overhead During FPGA Dynamic Partial Reconfiguration*

Amor Nafkha and Yves Louet (CentraleSupélec, France)

4. *Dynamic and Partial Reconfiguration Power Consumption Runtime Measurements Analysis for ZYNQ SoC Devices*

Mohamad AlFadl Rihani (IETR INSA Rennes, France); Fabienne Nouvel (INSA IETR RENNES, France); Jean-Christophe Prévotet (INSA, France); Mohamad Mroue and Yasser Mohanna (Lebanese University, Lebanon); Jordane Lorandel (INSA Rennes, France)

Special Session 5 (15:45-17:15): Trade-offs of Green Networking – From the Access to the Core

1. *Trade-offs in green core networking*

Filip Idzikowski (Poznan University of Technology, Poland)

2. *Joint Remote Radio Head Activation and Beamforming for Energy Efficient C-RAN*

Yan Zeng (Beijing University of Posts and Telecommunications, P.R. China); Xiangming Wen and Zhaoming Lu (BUPT, P.R. China); Yawen Chen (Beijing University of Posts and Telecommunications, P.R. China); Hua Shao (BUPT, P.R. China)

3. *Balancing Infrastructure Fatigue, Energy Consumption and User Profits in Cellular Networks*

Andrea Baiocchi (University of Roma Sapienza, Italy); Luca Chiaraviglio (CNIT, Italy); Francesca Cuomo and Valentina Salvatore (University of Rome Sapienza, Italy)

4. *Modeling Energy Availability in RF Energy Harvesting Networks*

Daniela Oliveira and Rodolfo Oliveira (Nova University of Lisbon, Portugal)

Friday, September 23rd, 2016

Session 12 (9:00-10:30): WiFi Technology

1. *Dynamic network configuration: Hotspot identification for Virtual Small Cells*

Thomas Varela Santana and Ana Galindo-Serrano (Orange Labs); Berna Sayrac and Sofia Martinez Lopez (Orange Labs, France)

2. *Power Consumption of Wi-Fi Transceivers*

Marie Le Bot and Wissem Benali (Orange Labs, France); Charlotte Langlais (Telecom Bretagne, France); Sylvie Kerouedan (Telecom Bretagne / Institut Mines-Telecom, France)

3. *Modeling Leader-based Multicast Transmission via Periodic Reservations in Wi-Fi networks*

Aleksandr Sergeevich Ivanov, Evgeny Khorov, Egor Kuznetsov and Andrey Lyakhov (IITP RAS, Russia)

4. *Promise and Perils of Dynamic Sensitivity Control in IEEE 802.11ax WLANs*

Zhenzhe Zhong (Orange Labs, France); Fengming Cao (Toshiba Research Europe, United Kingdom); Parag Kulkarni (Toshiba Research Europe Ltd., United Kingdom); Zhong Fan (Toshiba Research Europe, United Kingdom)

Session 13 (9:00-10:30): Wireless Network Design and Optimization

1. *Evolutionary algorithms for multiobjective optimization of frequency reuse schemes in CoMP-based MIMO-OFDMA networks*

Javier Pastor-Pérez, Felip Riera-Palou and Guillem Femenias (University of the Balearic Islands, Spain)

2. *On the benefits of early HARQ feedback with non-ideal prediction in 5G networks*

Gilberto Berardinelli (Aalborg University, Denmark); Saeed Reza Khosravirad (Nokia - Bell Labs, Poland); Klaus Pedersen (Nokia - Bell Labs, Denmark); Frank Frederiksen (Nokia & Networks, Denmark); Preben Mogensen (Aalborg University, Denmark)

3. *Knowledge-based 5G Radio Access Network Planning and Optimization*

Jordi Pérez-Romero (Universitat Politècnica de Catalunya (UPC), Spain); Oriol Sallent, Ramon Ferrús and Ramon Agustí (Universitat Politècnica de Catalunya, Spain)

4. *An Architecture for Spectrum Management and Coordinated Control in 5G Heterogeneous Network*

Bartosz Bossy and Adrian Kliks (Poznan University of Technology, Poland); Shah Nawaz Khan and Roberto Riggio (Create-Net, Italy); Leonardo Goratti (Create-net, Italy)

Session 14 (9:00-10:30): Ad-hoc and Sensor Networks

1. *Maximizing Strong Barriers in Lifetime-Heterogeneous Directional Sensor Network*

Ruisong Han (Beijing Jiaotong University, P.R. China); Li Zhang (University of Leeds, United Kingdom); Wei Yang (Beijing Jiaotong University, P.R. China)

2. *Smart Decision Making Policy for Faster Harvesting From Ambient RF Sources in Wireless Sensor Nodes*

Sumit Jagdish Darak (IIIT-Delhi, India); Christophe Moy (CentraleSupélec/IETR, France); Jacques Palicot (CentraleSupélec/IETR, France)

3. *Topology Design of Fully Connected Hierarchical Mobile Ad-Hoc Networks*

Lina Mroueh (Institut Supérieur d'Electronique de Paris, France); Achraf Kessab (Telecom Paristech & Thales Communications & Security, France); Philippe Martins (Telecom Paristech, France); Serge Hethuin (Thales Communication and Security, France); Isabelle Bucaille (Thales Communications, France)

4. *Communication scheduling for fast distributed averaging in sensor networks*

Maciej Patan (University of Zielona Gora, Poland); Adam Romanek (University of Zielona Góra, Poland)

Special Session 6 (9:00-10:30): New methods for Wireless LANs

1. *Performance of GFDM-Maximal Ratio Transmission over Nakagami-m Fading Channels*

Piotr Remlein (Poznan University of Technology & Chair of Wireless Communications, Poland); Tansal Gucluoglu (Yildiz Technical University, Turkey); Ayhan Yenilmez (Yildiz Technical University, Istanbul, Turkey)

2. *Handoff Management Scheme Based on Frame Loss Rate and RSSI Prediction for IEEE 802.11 Networks*

Tao Lei (Beijing University of Posts and Telecommunications & Beijing Key Laboratory of Network System Architecture and Convergence, P.R. China); Xiangming Wen (Beijing University of Posts and Telecommunications, P.R. China); Zhaoming Lu, Wenpeng Jing and Biao Zhang (BUPT, P.R. China); Gang Cao (Beijing University of Posts and Telecommunications, P.R. China)

3. *Secret Key Generation Using Channel Quantization with SVD for Reciprocal MIMO Channels*

Haji Madni (Istanbul Medipol University & School of Engineering and Natural Science Electrical, Electronics and Cyber Systems, Turkey); Jehad Hamamreh and Huseyin Arslan (Istanbul Medipol University, Turkey)

4. *A Modified Matérn Hard Core Point Process for Modeling and Analysis of Dense IEEE 802.11 Networks*

Tao Lei (Beijing University of Posts and Telecommunications & Beijing Key Laboratory of Network System Architecture and Convergence, P.R. China); Xiangming Wen (Beijing University of Posts and Telecommunications, P.R. China); Zhaoming Lu (BUPT, P.R. China); Wenpeng Jing, Kun Chen and Xiaoguang Zhao (Beijing University of Posts and Telecommunications, P.R. China)

5. *Several EDCA Parameter Sets for Improving Channel Access in IEEE 802.11ax Networks*

Evgeny Khorov, Vyacheslav Loginov and Andrey Lyakhov (IITP RAS, Russia)

Session 15 (13:45-15:15): Relay Issues

1. *Outage Performance of Dual Hop Full-Duplex MIMO Relay Networks with TAS/MRC over Rayleigh Fading Channels*

Mesut Toka and Oğuz Kucur (Gebze Technical University, Turkey)

2. *Store-then-Cooperate: Energy Harvesting Scheme in Cooperative Relay Networks*

Akashkumar Rajaram (University of Tartu, Estonia); Dushantha Nalin K. Jayakody (University of Tartu, Estonia; National Research Tomsk Polytechnic University, Russia); Vitaly Skachek (University of Tartu, Estonia)

3. *Finite Blocklength Performance of Multi-Hop Relaying Networks*

Fangchao Du (University of Science and Technology of China, P.R. China); Yulin Hu (RWTH Aachen University, Germany); Ling Qiu (University of Science and Technology of China, P.R. China); Anke Schmeink (RWTH Aachen University, Germany)

4. *An Accurate BER Bound for Linear-Combining-Based Decoders in Decode-and-Forward Relay Channels*

Zhen Luo (City University of Hong Kong, Hong Kong); Bin Qian (Hong Kong University of Science and Technology, Hong Kong); Wai Ho Mow (Hong Kong University of Science and Technology & HKUST, Hong Kong)

Session 16 (13:45-15:15): Channel Equalization, Prediction and Tracking

1. *MMSE Equalization for FBMC Transmission over Doubly-Selective Channels*

Ljiljana Marijanovic (Technische Universität Wien, Austria); Stefan Schwarz and Markus Rupp (TU Wien, Austria)

2. *Measurement Model Optimization for Channel Prediction Improvement in Wireless Networks*

Afef Feki (France Research Center, Huawei Technologies, France); Mustapha Amara (France Research Center, Huawei Technologies Co., Ltd., France); Sami Mekki (France Research Center, Huawei Technologies, France)

3. *Data-Aided Autoregressive Sparse Channel Tracking for OFDM Systems*

Ayşe Betül Buyuksar (Istanbul Technical University, Turkey); Habib Senol and Serhat Erkucuk (Kadir Has University, Turkey); Hakan A. Çırpan (Istanbul Technical University, Turkey)

4. *A Novel Channel Estimator for Zero-Tail DFT-spread-OFDM*

Gilberto Berardinelli (Aalborg University, Denmark); Klaus Pedersen (Nokia - Bell Labs, Denmark); Frank Frederiksen (Nokia & Networks, Denmark); Preben Mogensen (Nokia Siemens Networks, Aalborg, Denmark); Kari Pajukoski (Nokia, Finland)

5. *Adaptive LMS-Type Filter for Cyclostationary Signals*

Nir Shlezinger (Ben Gurion University, Israel); Koby Todros (Ben Gurion University of the Negev, Israel); Ron Dabora (Ben-Gurion University, Israel)

Session 17 (13:45-15:15): Antennas, Radars and Propagation

1. *A Novel Geometrical Height Gain Model for Line-of-Sight Urban Micro Cells Below 6 GHz*

Ignacio Rodriguez (Aalborg Universitet, Denmark); Huan Cong Nguyen (Aalborg University & Faculty of Engineering and Science, Denmark); Troels B. Sørensen (Aalborg University, Denmark); ZhuYan Zhao and Hao Guan (Nokia Siemens Networks, P.R. China); Preben Mogensen (Nokia Siemens Networks, Aalborg, Denmark)

2. *An outdoor TV band Radio Environment Map for a Manhattan like layout*

Anna Umbert (University Politecnica of Catalunya, Spain); Ferran Casadevall (Universitat Politècnica de Catalunya, Spain); Estuardo Gabriel Rodríguez (University Politecnica de Catalunya, Spain)

3. *Cloaking of the Cylindrical Dielectric Structure with Double Slot Square Loop Cells*

Mahdiye Rahzani (Shahed, Iran); Gholamreza Dadashzadeh and Mohammadreza Khorshidi (Shahed University, Iran)

4. *On Link Combining Method for Highly Reliable Future Wireless Communication*

Maciej Soszka (Vodafone Chair Mobile Communications Systems, Germany); Meryem Simsek and Gerhard Fettweis (Technische Universität Dresden, Germany)

5. *Widely-Linear Processing for Distributed Passive Radar Systems with Strictly Non-Circular Sources*

Omid Taghizadeh (RWTH Aachen University, Germany); Vimal Radhakrishnan (Institute for Theoretical Information Technology, RWTH Aachen, Germany); Rudolf Mathar (RWTH Aachen University, Germany)

Session 18 (13:45-15:15): Traffic and Protocols

1. *Multi-tenant Mobility Control in Small Cells as a Service*

Oriol Sallent (Universitat Politècnica de Catalunya, Spain); Jordi Pérez-Romero (Universitat Politècnica de Catalunya (UPC), Spain); Ramon Ferrús and Ramon Agustí (Universitat Politècnica de Catalunya, Spain)

2. *Transport Protocols Behaviour Study in Evolving Mobile Networks*

Rui Li (University of Edinburgh & Samsung Electronics R&D Institute UK, United Kingdom); Mehrdad Shariat (Samsung R&D Institute UK, United Kingdom); Maziar Nekovee (Samsung Electronics, United Kingdom)

3. *On the Impact of Multi-User Traffic Dynamics on Low Latency Communications*

Guillermo Pocovi (Aalborg University, Denmark); Klaus Pedersen (Nokia - Bell Labs, Denmark); Beatriz Soret (Nokia Networks, Denmark); Mads Lauridsen (Aalborg University, Denmark); Preben Mogensen (Nokia Siemens Networks, Aalborg, Denmark)

4. *CLF-MAC: A Coordinated MAC Protocol Supporting Lossy Forwarding in WLANs*

Katarzyna Kosek-Szott, Marek Natkaniec, Lukasz Prasnal and Szymon Szott (AGH University of Science and Technology, Poland)