



**EUROPEAN
WIRELESS
2015**

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Time	Auditorium Q-II	Room QBF09	Room QBF14	Room QBF15
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Wednesday, May 20

09:00-10:40		T1: Tutorial 1	T2: Tutorial 2	T3: Tutorial 3
10:40-11:00			coffee break	
11:00-12:20		T1: Tutorial 1	T2: Tutorial 2	T3: Tutorial 3
12:20-13:40			Lunch break	
13:40-15:00		S1: Practical wireless	S2: Visible wireless	S3: Wireless feedback
15:00-16:30		T4: Tutorial 4	T5: Tutorial 5	T6: Tutorial 6
16:30-16:50			coffee break	
16:50-18:10		T4: Tutorial 4	T5: Tutorial 5	T6: Tutorial 6
18:30-20:00			Welcome reception	

Thursday, May 21

09:00-09:15	Welcome addresses			
09:15-09:25	Salute from the sponsors			
09:25-10:40	K1: Keynote 1			
10:40-11:00			coffee break	
11:00-12:20		S4: Wireless coding	S5: Secure wireless	S6: Wireless applications
12:20-13:40			Lunch break	
13:40-14:50	K2: Keynote 2			

14:50-17:50		W1: Opening talk	
15:30-17:50	S7: Wireless MIMO		
16:10-16:30	coffee break	W1: Special session WD2DC	W2: Special session 5GCodes
16:30-17:50	S8: Wireless OFDM		
18:30-23:00		Social dinner	

Friday, May 22

09:00-10:20	K3: Keynote 3		
10:20-10:40		coffee break	
10:40-12:20	S9: Wireless channel	S10: Green Wireless	S11: Wireless access
12:20-13:40		Lunch break	
13:40-15:20	S12: Wireless learning	S13: Wireless transport	S14: Wireless sharing
15:20-15:40		coffee break	
15:40-17:20		S15: Wireless networking	S16: Wireless relay

Wednesday, May 20

09:00 - 10:40

T1: Tutorial 1

The Path Towards 5G - Essential Technologies, Protocols and Tools for Enabling 5G Mobile Communications
 Marco Di Renzo, Christos Verikoukis, Erik G. Larsson, Eduard Jorswieck, Cheng-Xiang Wang
 Room: Room QBF09

T2: Tutorial 2

Network Coding for Cloud Storage and Content Delivery
 Daniel E. Lucani, Frank H.P. Fitzek
 Room: Room QBF14

T3: Tutorial 3

Multi-Carrier waveforms: State of the Art and Challenges in a 5G perspective
 Pierre Siohan (presenting), Hao Lin
 Room: Room QBF15

10:40 - 11:00

coffee break

11:00 - 12:20

T1: Tutorial 1

back after the coffee break
Room: Room QBF09

T2: Tutorial 2

back after the coffee break
Room: Room QBF14

T3: Tutorial 3

back after the coffee break
Room: Room QBF15

12:20 - 13:40

Lunch break

13:40 - 15:00

S1: Practical wireless

Room: Room QBF09
Chair: László Lengyel (BME, Hungary)

- 13:40 [Android Based Toolset for NFC Tag Testing and Performance Evaluation](#)
Aage Andre Haaland Dahl (University of Oslo & Gold As, Norway); Thomas Plagemann (University of Oslo, Norway); Ali Zaher (Oslo University, Norway)
- 14:00 [Off- Body Channel Measurements, Modelling & Comparison of Wrist Mounted Antennas](#)
Mohammad W Abdullah, Evangelos Mellios, Maciej Klemm and Geoffrey Hilton (University of Bristol, United Kingdom)
- 14:20 [Applicability of Frequency Selective Surfaces to Enhance Mobile Network Coverage in Future Energy-Efficient Built Environments](#)
Ari Asp, Anil Baniya, Syed Fahad Yunas, Jarno Niemelä and Mikko Valkama (Tampere University of Technology, Finland)
- 14:40 [Adaptive Relay Activation in the Network Coding Protocols](#)
Peyman Pahlevani and Daniel E. Lucani (Aalborg University, Denmark); Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany)

S2: Visible wireless

Room: Room QBF14
Chair: Marcos D Katz (University of Oulu, Finland)

- 13:40 [Precoded Single-Cell Multi-User MISO Visible Light Communications](#)
Tezcan Cogalan (University of Edinburgh, United Kingdom); Harald Haas (The University of Edinburgh, United Kingdom); Erdal Panayirci (Kadir Has University, Turkey)
- 14:00 [An Efficient Repeater Assisted Visible Light Communication](#)
Samrat Vikramaditya Tiwari, Atul Sewaiwar and Yeonho Chung (Pukyong National University, Korea)
- 14:20 [Data Downloading on the Coverage of Visible Light Communication](#)
Helal Chowdhury (Telecommunication laboratory, university of oulu, Finland)
- 14:40 [Linear Precoder Performance of Massive MIMO Systems in near LOS Environments: Application to mmWave Transmission](#)

Antoine Rozé (Bcom, France); Maryline H  lard (INSA Rennes & IETR Institute of Electronics and Telecommunications of Rennes, France); Matthieu Cruss  re (IETR - Electronics and Telecommunications Research Institute of Rennes (IETR) & INSA - National Institute of Applied Sciences, France); Charlotte Langlais (T  l  com Bretagne, France)

S3: Wireless feedback

Room: Room QBF15

Chair: Leonardo Badia (Universit   degli Studi di Padova, Italy)

13:40 [Dynamic Outer Loop Link Adaptation for the 5G Centimeter-Wave Concept](#)

Marta Gatnau Sarret (Aalborg University & Nokia, Denmark); Davide Catania (Aalborg University, Denmark); Frank Frederiksen (Nokia Siemens Networks, Denmark); Andrea F. Cattoni, Gilberto Berardinelli and Preben Mogensen (Aalborg University, Denmark)

14:00 [Inter-cell Interference Management For Downlink Beamforming With Imperfect CSI](#)

Mati Tshangini (Kings College, United Kingdom); Mohammad Reza Nakhai (King's College London, United Kingdom)

14:20 [Joint Power and Sensing Optimization for Hybrid Cognitive Radios with limited CSIT](#)

George A Ropokis (Research Academic Computer Technology Institute, Greece); Christos G. Tsinos (University of Patras, Greece); Miltiades C. Filippou (University of Edinburgh, United Kingdom); Kostas Berberidis (University of Patras, Greece); David Gesbert (Eurecom Institute, France); Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom)

14:40 [Interpolated UQ vs RVQ as Limited Feedback for Broadband Channels](#)

Sara Teodoro (University of Aveiro & Instituto de Telecomunika   es, Portugal); Ad  o Silva (Instituto de Telecomunika   es (IT)/University of Aveiro, Portugal); Rui Dinis (Faculdade de Ci  ncias e Tecnologia, University Nova de Lisboa, Portugal); A  lio Gameiro (Instituto de Telecomunika   es / Universidade de Aveiro, Portugal)

15:00 - 16:30

T4: Tutorial 4

Small Cells and Device-to-Device Networks towards the 5G Era: Fundamentals, Applications, and Resource Allocation using Game Theory

Vaggelis G. Douros, George C. Polyzos

Room: Room QBF09

T5: Tutorial 5

Understanding the IoT evolution to master the IoT revolution

Antonio Iera, Giacomo Morabito, Luigi Atzori

Room: Room QBF14

T6: Tutorial 6

Efficient Network Handling Techniques on Android Platform

Peter Ekler, Bertalan Forstner

Room: Room QBF15

16:30 - 16:50

coffee break

16:50 - 18:10

T4: Tutorial 4

back after the coffee break

Room: Room QBF09

T5: Tutorial 5

back after the coffee break
Room: Room QBF14

T6: Tutorial 6

back after the coffee break
Room: Room QBF15

18:30 - 20:00**Welcome reception****Thursday, May 21****09:00 - 09:15****Welcome addresses**

Local academic authorities
Room: Auditorium Q-II

09:15 - 09:25**Salute from the sponsors**

Conference sponsors
Room: Auditorium Q-II

09:25 - 10:40**K1: Keynote 1**

Erik Dahlman
Room: Auditorium Q-II

10:40 - 11:00**coffee break****11:00 - 12:20****S4: Wireless coding**

Room: Room QBF09
Chair: Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany)

11:00 [Relay-assisted Network Coding Multicast in the Presence of Neighbours](#)

Hana Khamfroush (Penn State University, USA); Daniel E. Lucani and Peyman Pahlevani (Aalborg University, Denmark); Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany); Joao Barros (Instituto de Telecomunicações & Universidade do Porto, Portugal)

11:20 [Asymmetric Modulation Gains in Network Coded Relay Networks](#)

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

11:40 [Single-Carrier Frequency-Division Multiple Access Transmission with Physical Layer Network Coding over ISI Channels](#)

Armin Schmidt (University of Erlangen-Nuernberg, Germany); Robert Schober (Universität Erlangen-Nürnberg, Germany); Wolfgang Gerstacker (University of Erlangen-Nuernberg, Germany)

12:00 [BER Performance of Three-Phase Digital Network Coding Employing Combined TAS/Alamouti OSTBC-OFDM in the Presence of Imperfect Channel State Information](#)

Ahmet F Coskun (The Scientific and Technological Research Council of Turkey, Turkey); Oguz Kucur (Gebze Technical University, Turkey)

S5: Secure wireless

11:00 - 11:15 Introductory talk "Security in Programmable Network," by Peter Schneider (Nokia Networks)

Room: Room QBF14

Chair: Leonardo Badia (Università degli Studi di Padova, Italy)

11:15 [On the outage probability of secrecy capacity in arbitrarily-distributed fading channels](#)

Juan M. Romero-Jerez (University of Malaga, Spain); Gerardo Gomez (University of Málaga, Spain); Francisco Javier Lopez-Martinez (Universidad de Malaga, Spain)

11:33 [Channel Correlation Map based Indoor-to-outdoor Artificial Noise Design and Secrecy Analysis](#)

Huijun Li and Zekai Liang (RWTH Aachen University, Germany); Gunes Karabulut Kurt (Istanbul Technical University, Turkey); Gerd H. Ascheid and Guido Dartmann (RWTH Aachen University, Germany)

11:51 [The Study of the Centralized Control Method to Hasten Link Set-up in IEEE 802.11ah Networks](#)

Dmitry Bankov (Institute for Information Transmission Problems (IITP RAS), Russia); Evgeny Khorov and Andrey Lyakhov (IITP RAS, Russia)

12:09 [A zero-sum jamming game with incomplete position information in wireless scenarios](#)

Maria Scalabrin, Valentina Vadori and Anna Guglielmi (University of Padova, Italy); Leonardo Badia (Università degli Studi di Padova, Italy)

S6: Wireless applications

Room: Room QBF15

Chair: Péter Ekler (BME, Hungary)

11:00 [Wireless Applications of Mobile Egomotion Estimation with Computer Vision](#)

Laszlo Kundra (Budapest University of Technology and Economics, Hungary); Péter Ekler (BME, Hungary); Hassan Charaf (Budapest University of Technology and Economics, Hungary)

11:20 [Distributed movement recognition algorithm based on wrist-mounted wireless sensor motes](#)

Peter Sarcevic, Zoltán Kincses, Szilveszter Pletl and Laszlo Schaffer (University of Szeged, Hungary)

11:40 [Social driving in connected car environment](#)

Péter Ekler (BME, Hungary); Tamás Balogh and Tamás Ujj (Researcher, Hungary); Hassan Charaf (Budapest University of Technology and Economics, Hungary); László Lengyel (BME, Hungary)

12:00 [Wake-up signal length optimization combined with payload aggregation and FEC in WSNs](#)

Ákos Milánkovich, Gergely Ill and Károly Lendvai (Budapest University of Technology and Economics, Hungary); Sándor Imre (Technical University of Budapest, Hungary); Sándor Szabó (Budapest University of Technology and Economics, Hungary)

12:20 - 13:40

Lunch break

13:40 - 14:50

K2: Keynote 2

Muriel Médard

Room: Auditorium Q-II

14:50 - 16:10

S7: Wireless MIMO

Room: Room QBF09

Chair: Imre Kelényi (Budapest University of Technology and Economics, Hungary)

14:50 [Performance Analysis of Large Centralized and Distributed MU-MIMO Systems in Indoor WLAN](#)

Qing Wang (Eindhoven University of Technology, The Netherlands); Diptanil DebBarma (Eindhoven University of Technology & IISc, The Netherlands); Zizheng Cao (Eindhoven University of Technology, The Netherlands); Anthony Lo (Universiti Teknologi Malaysia, Sweden); Ignas Niemegeers (Eindhoven University of Technology, The Netherlands); Sonia Heemstra de Groot (Eindhoven Technical University, The Netherlands)

15:10 [Establishing Lower Bounds on the Peak-to-Average-Power Ratio in Filter Bank Multicarrier Systems](#)

Bálint Horváth and Peter Horvath (Budapest University of Technology and Economics, Hungary)

15:30 [A Banking Mechanism of Diversity-Multiplexing Tradeoff for Massive MIMO Systems](#)

Tsung-Wei Chiang and Ju-Hong Lee (National Taiwan University, Taiwan)

15:50 [Preamble-based Estimation of Highly Frequency Selective Channels in MIMO-FBMC/OQAM Systems](#)

Eleftherios Kofidis (University of Piraeus, Greece)

14:50 - 15:30

W1: Opening talk

invited talk for WD2DC

Gabor Fodor

Room: Room QBF14

14:50 - 17:50

W2: Special session 5GCodes

Workshop on Coding Techniques for 5G Networks

Room: Room QBF15

Chair: Daniel E. Lucani (Aalborg University, Denmark)

14:50 [Precoding Techniques for Turbo Codes](#)

Ronald Garzón Bohórquez (Telecom Bretagne, France); Charbel Abdel Nour (Institut Telecom - Telecom Bretagne, France); Catherine Douillard (Institut Mines Telecom - Telecom Bretagne, France)

15:10 [Generalized Error Locating Codes with Soft Decoding of Inner Codes](#)

Igor Zhilin (Institute for Information Transmission Problems, Russia); Fedor Ivanov (IITP, Russia); Victor V. Zyablov (Institute for Information Transmission Problems (IITP) RAS, Russia)

15:30 [Orchestrating Feedback for Hybrid Rateless Codes](#)

Carlos Faneca (University of Aveiro, Portugal); André Zúquete (University of Aveiro, Dep. of Electronics, Telecommunications and Informatics & IEETA, Portugal); Jose Vieira (Universidade de Aveiro & IEETA, Portugal); André Moreira (Instituto de Telecomunicações & Faculdade de Engenharia da Universidade do Porto, Portugal); Luis Almeida (Univerdidade do Porto, Portugal); Julio Cano (Universidade do Porto, Portugal)

15:50 [Increasing data distribution in BitTorrent networks by using network coding techniques](#)

Patrik János Braun and Márton Sipos (Budapest University of Technology and Economics, Hungary); Péter Ekler (BME, Hungary); Hassan Charaf (Budapest University of Technology and Economics, Hungary)

16:10 coffee break

16:30 [On the Packet Delay Characteristics for Serially-Connected Links using Random Linear Network Coding with and without Recoding](#)

Máté Tömösközi (Acticom GmbH, Germany); Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany); Daniel E. Lucani and Morten V. Pedersen (Aalborg University, Denmark); Patrick Seeling (Central Michigan University, USA); Péter Ekler (BME, Hungary)

16:50 [A Practical View on Tunable Sparse Network Coding](#)

Chres W. Sørensen (Aalborg University, Denmark); Arash Shahbaz Badr (Technische Universität Hamburg - Harburg, Germany); Juan Cabrera and Daniel E. Lucani (Aalborg University, Denmark); Janus Heide (Steinwurf, Denmark); Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany)

17:10 [Sending policies in dynamic wireless mesh using network coding](#)

Sreekrishna Pandi (Technical University of Dresden, Germany); Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany); Jeppe Pihl (Steinwurf, Denmark); Morten V. Pedersen and Daniel E. Lucani (Aalborg University, Denmark)

17:30 [Reliability Capacity of Half-Duplex Channels with Strict Deadlines](#)

Rui A. Costa (Streamboico, Portugal); Daniel E. Lucani (Aalborg University, Denmark); Tiago T. Vinhoza (Instituto de Telecomunicações & University of Porto, Portugal); Joao Barros (Instituto de Telecomunicações & Universidade do Porto, Portugal)

15:30 - 17:50**W1: Special session WD2DC**

Workshop on D2D communications

Room: Room QBF14

Chair: Leonardo Militano (Mediterranea University of Reggio Calabria, Italy)

15:30 [Efficient Data Uploading Supported by D2D Communications in LTE-A Systems](#)

Antonino Orsino (University Mediterranea of Reggio Calabria, Italy); Leonardo Militano (Mediterranea University of Reggio Calabria, Italy); Giuseppe Araniti, Antonella Molinaro and Antonio Iera (University Mediterranea of Reggio Calabria, Italy)

15:50 [Network-Assisted Device-to-Device Connectivity: Contemporary Vision and Open Challenges](#)

Sergey Andreev, Dmitri Moltchanov, Olga Galinina, Alexander Pyattaev, Aleksandr Ometov and Yevgeni Koucheryav (Tampere University of Technology, Finland)

16:10 coffee break

16:30 [Location-based mode selection and resource allocation in cellular networks with D2D underlay](#)

Marcin Rodziejewicz (Poznan University of Technology, Poland)

16:50 [Optimal Schedule for LTE-Advanced Device-to-Device Communication in Aviation](#)

Maciej Mühleisen (Hamburg University of Technology & RWTH Aachen University, Faculty 6, Germany); Jan Habermann and Andreas Timm-Giel (Hamburg University of Technology, Germany)

17:10 [Spectral Efficiency and Throughput Enhancement by Full-Duplex D2D Communication in Mobile Clouds](#)

Hamidreza Bagheri (University of Oulu, Finland); Fernando Miranda Bonomi (FACET, Universidad Nacional de Tucumán, Argentina); Marcos Katz (University of Oulu, Finland)

17:30 [Joint Mode Selection and Radio Resource Allocation for D2D Communications Based on Dynamic Coalition Formation Game](#)

Jingjing Zhao, Kok Keong Chai and Yue Chen (Queen Mary University of London, United Kingdom); John Schormans (Queen Mary, University of London, United Kingdom); Jesus Alonso-Zarate (Centre Tecnologic de Telecomunicacions de Catalunya - CTTC, Spain)

16:10 - 16:30

coffee break

Room: Room QBF09

16:30 - 17:50**S8: Wireless OFDM**

Room: Room QBF09

Chair: Bertalan Forstner (Budapest University of Technology and Economics, Hungary)

16:30 [A Robust Blind Time Synchronization Method in OFDM Systems over Multipath Fading Channels](#)

Youssef El Hajj Shehadeh and Sebastian Baumgartner (Chemnitz University of Technology, Germany); Gangolf Hirtz (Chemnitz University, Germany)

16:50 [An analysis of out-of-band emission and in-band interference for precoded and classical OFDM systems](#)

Medhat Mohamad (Luleå Technical University, Sweden); Rickard Nilsson (Luleå University of Technology, Sweden); Jaap van de Beek (Luleå University of Technology & Huawei Technologies, Sweden)

17:10 [DSFBC Transmission Scheme with OFDM in Adaptive Baseband Radio](#)

Jin Nakazato (University of Electro-Communications, Japan); Yuki Morimoto and Yoshio Karasawa (The University of Electro-Communications, Japan)

17:30 [Managing inter-cell interference with advanced receivers and rank adaptation in 5G small cells](#)

Fernando M. L. Tavares, Gilberto Berardinelli, Davide Catania, Troels B. Sørensen and Preben Mogensen (Aalborg University, Denmark)

18:30 - 23:00

Social dinner

Friday, May 22

09:00 - 10:20

K3: Keynote 3

Tommaso Melodia
Room: Auditorium Q-II

10:20 - 10:40

coffee break

10:40 - 12:20

S9: Wireless channel

Room: Room QBF09
Chair: Tim Esemann (Luebeck University of Applied Sciences & CoSA Center of Excellence, Germany)

- 10:40 [Polarity reception for IR-UWB in wireless fading channel](#)
Olonbayar Sonom and Dan Kreiser (IHP, Germany); Rolf Kraemer (IHP Microelectronics, Frankfurt/Oder, Germany); Gunter Fischer, Denys Martynenko and Oleksiy Klymenko (IHP, Germany)
- 11:00 [In-Band Interference Detection on Reception for IEEE 802.15.4 Transmissions](#)
Tim Esemann (Luebeck University of Applied Sciences & CoSA Center of Excellence, Germany); Horst Hellbrück (University of Applied Sciences Lübeck & CoSA Center of Excellence, Germany)
- 11:20 [Exact SER Expressions of GFDM in Nakagami-m and Rician fading channels](#)
Shravan Bandari (National Institute of Technology Warangal, India); Anastasios Drosopoulos (TEI of Western Greece, Greece); Venkata Mani Vakamulla (National Institute of Technology Warangal, India)
- 11:40 [Doppler Detection in IEEE802.11p Signals for Cooperative Awareness in VANETs](#)
Paul Fuxjaeger (FTW - Telecommunications Research Center Vienna, Austria); Stefan Ruehrup (FTW, Austria)
- 12:00 [Identification of Taps in Time-Variant Multipath Channels for 3GPP LTE-Downlink](#)
Nazar Muhammad Idrees (COMSATS Institute of Information Technology Sahiwal, Pakistan); Michael Rudolf Petit and Andreas Springer (Johannes Kepler University Linz, Austria)

S10: Green Wireless

Room: Room QBF14
Chair: Leonardo Militano (Mediterranea University of Reggio Calabria, Italy)

- 10:40 [Reconstruction of Correlated Sources with Energy Harvesting Constraints](#)
Miguel Calvo-Fullana (Centre Tecnològic de Telecomunicacions de Catalunya, Spain); Javier Matamoros (Centre Tecnològic de Telecomunicacions de Catalunya, Spain); Carles Antón-Haro (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain)
- 11:00 [Joint Online Transmission and Energy Transfer Policies for Energy Harvesting Devices with Finite Batteries](#)
Alessandro Bion (University of Padova, Italy); Michele Zorzi (Università degli Studi di Padova, Italy)
- 11:20 [Re-Dimensioning Number of Active eNodeBs for Green LTE Networks Using Genetic Algorithms](#)
Sarah Azzam (German University in Cairo, Egypt); Tallal Elshabrawy (The German University in Cairo, Egypt)
- 11:40 [Energy-Efficient Uplink Power Allocation in Multi-Cell MU-Massive-MIMO Systems](#)
Kaifeng Guo (RWTH Aachen University & Institute for Communication Technologies and Embedded Systems, Germany); Yan Guo (RWTH Aachen University & Faculty of Electrical Engineering and Information Technology, Germany); Gerd H. Ascheid (RWTH Aachen University, Germany)
- 12:00 [Evaluation of operation policies for energy harvesting sensor nodes with variable data traffic](#)
Leonardo Badia and Giulia Mansutti (Università degli Studi di Padova, Italy)

S11: Wireless access

Room: Room QBF15

Chair: Vincenzo Sciancalepore (Institute IMDEA Networks & Politecnico di Milano, Italy)

- 10:40 [EchoRing: A Low-Latency, Reliable Token-Passing MAC Protocol for Wireless Industrial Networks](#)
Christian Dombrowski (RWTH Aachen University, Germany); James Gross (Royal Institute of Technology (KTH), Sweden)
- 11:00 [Interference Analysis for 5G Random Access with Short Message Support](#)
Gerhard Wunder (Heinrich-Hertz-Institut, Germany); Martin Kasparick (Technical University Berlin & Fraunhofer Heinrich Hertz Institute, Germany); Peter Jung (TU-Berlin, Communications and Information Theory Group & Fraunhofer HHI - Heinrich Hertz Institute, Germany)
- 11:20 [Analysis of RFID anti-collision protocols based on the standard EPCglobal Class-1 Generation-2](#)
Laura Arjona (Deustotech Institute of Technology- University of Deusto, Spain); Hugo Landaluce (Deustotech Institute of Technology - University of Deusto, Spain); Asier Perallos (Fundacion Deusto, Spain); Pedro Lopez-Garcia and Nikola Cmiljanic (Deustotech Institute of Technology- University of Deusto, Spain)
- 11:40 [Dynamic Queue Utilization Based MAC for Multi-Hop Ad Hoc Networks](#)
Jims Marchang (University of Plymouth & CSCAN Research Centre, United Kingdom); Bogdan Ghita (Plymouth University, United Kingdom); David Lancaster (University of Plymouth, United Kingdom)
- 12:00 [Performance Evaluation of IEEE 802.15.4k Priority Channel Access with DSSS PHY](#)
Berhane Gebremedhin (University of Oulu, Finland); Jussi P Haapola (Centre for Wireless Communications, University of Oulu, Finland); Jari Iinatti (University of Oulu, Finland)

12:20 - 13:40

Lunch break

13:40 - 15:20

S12: Wireless learning

Room: Room QBF09

Chair: Davide Del Testa (University of Padova, Italy)

- 13:40 [Analysis of 38 GHz mmWave Propagation Characteristics of Urban Scenarios](#)
Ignacio Rodriguez (Aalborg Universitet, Denmark); Huan Cong Nguyen (Aalborg University & Faculty of Engineering and Science, Denmark); Troels B. Sørensen (Aalborg University, Denmark); Jan Elling and Jens Åge Holm (Telenor A/S, Denmark); Preben Mogensen (Nokia Siemens Networks, Aalborg, Denmark); Benny Vejlgård (Nokia Siemens Networks, Denmark)
- 14:00 [Pairwise Recognition of Digital Modulation Modes Using Optimized Circular Harmonic Functions](#)
Andrey V. Osipov (KTH Royal Institute of Technology, Sweden); Alexander B. Sergienko (St. Petersburg Electrotechnical University, Russia)
- 14:20 [Random Vector Differential Entropy Based Cognitive Radio Spectrum Sensing](#)
Usama Y. Mohamad and Dirk Dahlhaus (University of Kassel, Germany)
- 14:40 [Wavelet Preprocessed Neural Network Based Receiver for Low SNR Communication](#)
Husam Y Alzaq and Berk Ustundag (Istanbul Technical University, Turkey)
- 15:00 [Context Information for Fast Cell Discovery in mm-wave 5G Networks](#)
Antonio Capone and Ilario Filippini (Politecnico di Milano, Italy); Vincenzo Sciancalepore (Institute IMDEA Networks & Politecnico di Milano, Italy)

S13: Wireless transport

Room: Room QBF14

Chair: Gerhard Wunder (Heinrich-Hertz-Institut, Germany)

- 13:40 [Performance Evaluation of Multicast Video Distribution using 802.11n in Realistic Environments](#)
Berna Bulut, Evangelos Mellios, Denys Berkovsky, Angela Doufexi and Andrew Nix (University of Bristol, United Kingdom)
- 14:00 [Modelling of YouTube Traffic in High Speed Mobile Networks](#)
Géza Horváth and Peter Fazekas (Budapest University of Technology and Economics, Hungary)
- 14:20 [Methodology to evaluate user experience in non-fully loaded wireless communication systems](#)
Moritz Lossow, Paul Arnold, Heinz Droste and Gerhard Kadel (Deutsche Telekom Innovation Laboratories, Germany); Oscar Dario Ramos-Cantor (Technische Universität Darmstadt, Germany)
- 14:40 [Performance Limits of Sparse Support Recovery Algorithms](#)
Georgios Angelopoulos (Massachusetts Institute of Technology, USA); Muriel Médard (MIT, USA)

15:00 [Towards the Tactile Internet: Decreasing Communication Latency with Network Coding and Software Defined Networking](#)

Dávid Szabó and András Gulyás (Budapest University of Technology and Economics, Hungary); Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany); Daniel E. Lucani (Aalborg University, Denmark)

S14: Wireless sharing

Room: Room QBF15

Chair: Ramona Trestian (Middlesex University, United Kingdom)

13:40 [Non-Orthogonal Multiple Access for Wireless Downlink in Cloud Radio Access Networks](#)

Quoc-Tuan Vien, Ngozi Ogbonna, Huan X Nguyen and Ramona Trestian (Middlesex University, United Kingdom); Purav Shah (Middlesex University & School of Science and Technology, United Kingdom)

14:00 [Closed-form Outage and Diversity Analysis of Opportunistic Nulling for Secondary Spectrum Sharing](#)

Dae-Kyo Jeong and Dongwoo Kim (Hanyang University, Korea)

14:20 [Distributed Hybrid Spectrum Sharing for OFDMA-based Cognitive Femtocells in 5G Networks](#)

Pavel Mach and Zdenek Becvar (Czech Technical University in Prague, Czech Republic)

14:40 [Outage Probability Analysis of Multihop Cognitive Networks under Multiple Primary Users Interference](#)

Petros S. Bithas (Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing, Greece); Athanasios A. Rontogiannis (National Observatory of Athens, Greece)

15:00 [A Two-Stage Spectrum Access Selection and Pricing Game for Cognitive Radio Networks](#)

Angeliki Kordali and Panayotis Cottis (National Technical University of Athens, Greece)

15:20 - 15:40

coffee break

15:40 - 17:20

S15: Wireless networking

Room: Room QBF14

Chair: Leonardo Badia (Università degli Studi di Padova, Italy)

15:40 [On PLR Estimation for a Multipath Route with Failure Correlation](#)

Igor Kargin and Evgeny Khorov (IITP RAS & MIPT, Russia); Andrey Lyakhov (IITP RAS, Russia)

16:00 [Path Loss Interference in Mobile Random Waypoint Networks](#)

Luis Irio (Nova University of Lisbon, Portugal); António Furtado (Universidade Nova de Lisboa / UNINOVA, Portugal); Rodolfo Oliveira (Nova University of Lisbon, Portugal); Luis Bernardo (Universidade Nova de Lisboa, Portugal); Rui Dinis (Faculdade de Ciências e Tecnologia, University Nova de Lisboa, Portugal)

16:20 [QoS Connectionless Multicast Routing for Mobile Ad Hoc Networks](#)

Viet Thi Minh Do (Norwegian University of Science and Technology, Norway); Lars Landmark (Norwegian Defence Research Establishment (FFI), Norway); Øivind Kure (Norwegian University of Science and Technology (NTNU), Norway)

16:40 [Design and Analysis of Distributed Mobility Management Schemes for Wireless Sensor Networks](#)

Luiz Henrique Suraty Filho and Benoit Denis (CEA-Leti Minatec, France); Mickael Maman (CEA-Leti Minatec Campus, France)

17:00 [Network Coded Software Defined Networking: Design and Implementation](#)

Jeppe Krigslund, Jonas Hansen and Daniel E. Lucani (Aalborg University, Denmark); Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany); Muriel Médard (MIT, USA)

S16: Wireless relay

Room: Room QBF15

Chair: Sándor Imre (Technical University of Budapest, Hungary)

15:40 [Joint Dynamic Resource Allocation and Load Balancing for LTE-Advanced Relay Networks in Heterogeneous Load Conditions](#)

Miguel Eguizabal-Alonso and Angela Hernández-Solana (University of Zaragoza, Spain)

16:00 [Relaying Techniques for LTE-Advanced](#)

Asmaa Abdallah (Rafik Hariri University, Lebanon); Khalil Fakih (Lebanese University, Lebanon); Dina Serhal (Rafik Hariri University, Lebanon)

16:20 [Power Allocation for the MAC-Phase of a Two-Way-Relay Interference Channel](#)

Stephan Schedler (Universität Rostock, Germany); Volker Kuehn (University of Rostock, Germany)

16:40 [Spectral Efficiency of Small Cells Enhanced LTE System - Relay versus Picocell -](#)

Yuan Chen and Bernhard H. Walke (RWTH Aachen University, Germany)

17:00 [Ergodic Capacity of Interference Coordinated HetNet with Full-Duplex Small Cells](#)

Mhd Omar Alkadri, Adnan Aijaz and Arumugam Nallanathan (King's College London, United Kingdom)

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