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Program for European Wireless 2012

Wednesday, April 18

9:00 – 9:45  Opening Session

9:45 – 11:15  Plenary Session I

1  Geometrical Theory for Channel Depolarization
   Gordon Stüber (Georgia Institute of Technology, USA)

2  Mobile and wireless communications beyond LTE / IMT-Advanced - an industry view
   Werner Mohr, Nokia Siemens Networks, Munich, Germany

11:45 – 13:15  S1 - OFDMA Systems I

1  Rate Adaptive Resource Allocation with Fairness Control for OFDMA Networks
   Emanuel B. Rodrigues (Universitat Politècnica de Catalunya, Spain); Ferran Casadevall
   (Universitat Politècnica de Catalunya, Spain)

2  Downlink Rate-Guaranteed Scheduling for Multiuser OFDMA Cellular Systems
   Jerzy Martyna (Jagiellonian University, Faculty of Mathematics and Computer Science, Poland)

3  Cooperative Load Balancing for OFDMA Cellular Networks
   Lexi Xu (Queen Mary, University of London, United Kingdom); Yue Chen (Queen Mary, University of London, United Kingdom); Kok Keong (Michael) Chai (Queen Mary, University of London, United Kingdom); Tiankui Zhang (Beijing University of Posts and Telecommunications, P.R. China); John Schormans (Queen Mary, University of London, United Kingdom); Laurie Cuthbert (Queen Mary, University of London, United Kingdom)

4  Inter-cell Interference Coordination via Multi-Layer Rate Splitting Scheme in Heterogeneous Networks
   Guangxia Zhou (Universität der Bundeswehr, Munich, Germany); Wen Xu (Intel, Germany); Gerhard Bauch (Universität der Bundeswehr, Munich, Germany); Jens Berkmann (Intel Mobile Communications, Germany)

11:45 – 13:15  S2 - Selected Issues in Wireless Networks

1  Reducing Communication Overhead by Scheduling TCP Transfers on Mobile Devices using Wireless Network Performance Maps
   Kim Hejgaard-Hansen (Aalborg University, Denmark); Tatiana Madsen (Aalborg University, Denmark); Hans-Peter Schwefel (Forschungszentrum Telekommunikation Wien, Austria)

2  Local Area Network Dynamic routing protocol: a position based routing protocol for MANET
   Adam Macintosh (LSBU, United Kingdom), Mohammad Ghavami (LSBU, United Kingdom), Ming Fei Siyau (LSBU, United Kingdom), Soon Leh Ling (ZTE (UK) Ltd, United Kingdom)

3  Up in the clouds: A Taxonomical Analysis of Network Management Functionalities from a Network as a Service Perspective
   Roberto Riggio (Create-Net, Italy); Slawomir Kuklinski (Warsaw University of Technology, Poland); Tinku Rasheed (Create-Net Research, Italy); David Andreatta (Futur3, Italy); David Tacconi (Futur3, Italy); Fabio Antonelli (CREATE-NET, Italy)

4  Security and Smart Metering
A Markov Chain Model for Performance Analysis of VBR Voice using Multiple Thresholds
Indika A. M. Balapuwaduge (University of Agder, Norway); Lei Jiao (University of Agder, Norway); Frank Y. Li (University of Agder, Norway)

Time-Reversal Against Optimum Precoder Over Frequency-Selective Channels
Guido Carlo Ferrante (Sapienza University of Rome, Italy)

Intelligent transports systems based on UWB technologies
Atika Rivenq (University, France); Fouzia Elbahhar (Inrets, France)

Board implementation and its performance for IR-UWB IEEE.802.15.4a from multiple ASIC chips
Olonbayar Sonom (IHP, Germany)

Extraction and Characterization of Location-dependent UWB Radio-Features with Practical Implications for Indoor Positioning
Bernard Uguen (Université Rennes 1, France), Mohamed Laaraiedh (University of Rennes 1, France); Benoit Denis (CEA-Leti Minatel, France); Julien Keignart (CEA-Leti, France); Julien Stephan (SIRADEL, France); Yves Lostanlen (SIRADEL, Canada)

Future MNO Business Models Beyond 2020
Key Pousttchi, University of Augsburg, Germany

Mobile Communications Beyond 2020 – Connecting Billions of Humans and Devices Seamlessly and Efficiently
Patrick Marsch, Nokia Siemens Networks, Wroclaw, Poland

Optical Wireless Communications – Huge Bandwidth Ready-for-use
Ronald Freund, Fraunhofer HHI, Berlin, Germany

Parallel Computing in Mobile Communication
Vladimir Ivanov, Intel Labs, St. Petersburg, Russia

Automotive Connectivity Beyond 2020 – Requirements and Impact on Future Mobile Communications
Peter Fertl, BMW Group Research & Technology, Munich, Germany

Improving Broadcast Channel Rate Using Hierarchical Modulation
Hugo Meric (University of Toulouse, France); Jerome Lacan (University of Toulouse, France); Fabrice Armal (Thales Alenia Space, France); Guy Lesthievent (CNES, France); Marie-Laure Boucheret (Enseeeht, France)

Blind Carrier Frequency Offset Tracking Based on Multiuser Interference Cancellation in OFDMA Uplink Systems
Rui Fa (University of Liverpool, United Kingdom); Li Zhang (University of Leeds, United Kingdom); Raymundo Ramirez-Gutierrez (University of Leeds, United Kingdom)
3 sGSA: An SDMA-OFDMA Scheduling Solution
Anatolij Zubow (Humboldt University Berlin, Germany); Johannes Marotzke (Humboldt University Berlin, Germany); Daniel Camps-Mur (NEC, Germany); Xavier Perez-Costa (NEC Laboratories Europe, Germany)

4 Performance of Transmitter Preprocessing Assisted Multi Carrier IDMA in Frequency-Selective Channel for Downlink Communication
Shriram Swaminathan (Georgia Institute of Technology, USA); Nithin Srinivasan (SSN College of Engineering, India); Sriram Ravichandran (SSN College of Engineering, India); Shruthi Ravichandran (SSN College of Engineering, India); Prabagarane Nagaradjane (SSN Institutions, India)

16:30 – 18:00
S5 - Cooperative Communications

1 An Adaptive Cooperative Downlink Transmission Scheme for Wireless Network with Distributed Antenna System
Jianxin Liu (Southeast University, P.R. China); Jijian Chen (Southeast University, P.R. China); Xinsheng Zhao (Southeast University, P.R. China)

2 PAPR Reduction in Distributed Amplify-and-Forward Type Closed Loop Extended Orthogonal Space Frequency Block Coding with One-bit Group Feedback for Cooperative Communications
Masoud Eddaghel (Loughborough University, United Kingdom); Jonathon A Chambers (Loughborough University, United Kingdom)

3 Cross-layer modeling of wireless systems using AMC with Cooperative-ARQ error control
Jaume Ramis (Universitat de les Illes Balears, Spain); Guillem Femenias (University of the Balearic Islands, Spain)

4 Network Coding Aided Device-to-Device Communication
Marcin Rodziewicz (Poznan University of Technology, Poland)

5 A Cooperative Multihop Approach for Energy Efficient Wireless Content Distribution
Elias Yaacoub (Qatar University Wireless Innovations Center (QUWIC), Qatar); Adnan Abu-Dayya (QUWIC, Qatar)

16:30 – 18:00
S6 - Body Sensor Networks – Invited Session (organized and chaired by Roberto Verdone, University of Bologna, Italy)

1 Towards a Radio Channel Model for Off-Body Communications in a Multipath Environment
Michal Maćkowiak (Technical University of Lisbon, Portugal); Luis M. Correia (IST - Technical University Lisbon, Portugal)

2 On-Body Area Networks: from Channel Measurements to MAC Layer Performance Evaluation
Ramona Rosini (DEIS - University of Bologna, Italy); Flavia Martelli (University of Bologna, Italy); Mickael Maman (CEA-Leti Minatex, France); Raffaele D'Errico (CEA, LETI, Minatex Campus, France); Chiara Buratti (University of Bologna, Italy); Roberto Verdone (University of Bologna, Italy)

3 Coexistence Issues for Wireless Body Area Networks at 2.45 GHz
Flavia Martelli (University of Bologna, Italy); Roberto Verdone (University of Bologna, Italy)

4 Interconnection of Body Area Networks to a Communications Infrastructure: an Architectural Study
Nicola Bui (University of Padova, Italy); Nicola Bressan (University of Padova, Italy)
Michele Zorzi (Università degli Studi di Padova, Italy)

5 A Wireless Sensor Network design for the Help4Mood European project

David Pérez-Díaz de Cerio (Universitat Politècnica de Catalunya, Spain); Silvia Ruiz Boqué (UPC, Spain); Javier Rosell-Ferrer (Universitat Politècnica de Catalunya, Spain); Juan Ramos-Castro (Technical University of Catalonia (UPC), Spain); Juan Carlos Castro (i2cat Foundation, Spain)
Thursday, April 19

8:30 – 10:00  S7 - OFDM Systems

1. An Iterative and Joint Estimation of SNR and Frequency Selective Channel for OFDM Systems
   Vincent Savaux (Supélec, France); Yves Louët (SUPELEC-Rennes Campus, France); Moïse Djoko-Kouam (ECAM Rennes - Louis de Broglie, France); Alexandre Skrzypczak (ECAM Rennes - Louis de Broglie, France)

2. Low-Complexity Channel Estimation for 3GPP LTE Terminals
   Xiaojun Ma (Intel, Germany); Wen Xu (Intel, Germany)

3. Theoretical analysis of the trade-off between efficiency and linearity of the High Power Amplifier in OFDM context
   O. Abel Gouba (IETR, France); Yves Louët (SUPELEC-Rennes Campus, France)

4. Evaluations and Measurements of a Single Frequency Network with DRM+
   Friederike Maier (Leibniz University of Hannover, Germany); Andrej Tissen (Leibniz University of Hannover, Germany); Albert Waal (RFmondial GMBH, Germany)

5. Iterative rejection of adjacent channel interference for 802.11n WLANs
   Paweł Szulakiewicz (Poznan University of Telecommunications, Poland); Robert Kotrys (Poznań University of Technology, Poland); Maciej Krasicki (Poznań University of Technology, Poland); Piotr Remlein (Poznań University of Technology, Poland); Andrzej Stelter (Poznań University of Technology, Poland)

8:30 – 10:00  S8 - MIMO Techniques

1. Adaptive MMSE Channel Estimation Algorithms for MIMO Systems
   Thomas Hesketh (University of York, United Kingdom); Rodrigo C. de Lamare (University of York, United Kingdom); Stephen Wales (Roke Manor Research, United Kingdom)

2. Efficient Training of Adaptive MIMO Channel Tracking Algorithms
   Emna Eitel (University of Stuttgart, Germany); Joachim Speidel (University of Stuttgart, Germany)

3. Pilot Expansion Technique on Paley-Hadamard Codes for MIMO Channel Estimation and Kalman Tracking - WITHDRAWN
   Ming Fei Siyau (London South Bank University, United Kingdom); Soon Leh Ling (ZTE UK, United Kingdom); Mohammad Ghavami (London South Bank University, United Kingdom)

4. Reduced Complexity Computation Unit for a Sphere Decoding Algorithm
   Till Wiegand (University of Bremen, Germany); Steffen Paul (University Bremen, Germany)

8:30 – 10:00  S9 - 3G, 4G and Beyond

1. On the Performance of LTE-Advanced MIMO: How to Set and Reach Beyond 4G Targets
   Eeva Lähetkangas (Nokia Siemens Networks, Finland); Kari Pajukoski (Nokia-Siemens Networks, Finland); Esa Tiirila (Nokia Siemens Networks, Finland); Jyri Hämäläinen (Helsinki University of Technology, Finland); Zhong Zheng (Aalto University, Finland)

2. A Kernel Methods Approach to Reducing Handover Occurrences within LTE
   Neil Sinclair (University Of Strathclyde, United Kingdom); David A Harle (University of Strathclyde, United Kingdom); Ian A Glover (University of Strathclyde, United Kingdom);
Robert Caddell Atkinson (University of Strathclyde, United Kingdom)

3 Evaluation and Improvement of VoIP Capacity for LTE
Maciej Mühleisen (RWTH Aachen University, Faculty 6, Germany); Bernhard H. Walke (RWTH Aachen University, Germany)

4 Quantified User Behavior in User-in-the-Loop Spatially and Demand Controlled Cellular Systems
Rainer Schoenen (RWTH Aachen University, Faculty 6, Germany); Gurhan Bulu (Carleton University, Canada); Amir Mirtaheri (Carleton University, Canada); Tamer Beitelmal (Carleton University, Canada); Halim Yanikomeroglu (Carleton University, Canada)

5 Latency Analysis of 3G Network Components
Markus Laner (Vienna University of Technology, Austria); Philipp Svoboda (Vienna University of Technology, Austria); Markus Rupp (Vienna University of Technology, Austria)

8:30 – 10:00

S10 - Relay Techniques

1 Joint Backhaul Co-scheduling and Relay Cell Extension in LTE-Advanced Networks: Uplink Performance Evaluation
Dereje Woldemedhin Kifle (University of Trento, Germany); Ömer Balakci (Nokia Siemens Networks Radio Systems, Germany); Abdallah Bou Saleh (Aalto University School of Electrical Engineering, Germany); Simone Redana (Nokia Siemens Networks, Germany); Fabrizio Granelli (University of Trento, Italy)

2 Admission Control for LTE-Advanced Relay Systems
Federica Vitiello (Nokia Siemens Networks, Germany); Simone Redana (Nokia Siemens Networks, Germany); Jyri Hämäläinen (Helsinki University of Technology, Finland)

3 Downlink Performance of Multiuser Multi-Relay Cooperative Networks: A Low-Complexity Relay-Destination Selection Scheme
Marco Beserra (Federal University of Ceará, Brazil); Daniel Benevides da Costa (Federal University of Ceara (UFC), Brazil)

4 Physical-Layer Network Coding Based Interference Exploitation Strategy for Multi-User Hierarchical Wireless Networks
Dong Fang (University of York, United Kingdom); Peng Li (University of York, United Kingdom); Alister G. Burr (University of York, United Kingdom); Rodrigo C. de Lamare (University of York, United Kingdom)

5 Decode-and-Forward Relay Placement for Maximum Cell Spectral Efficiency
Klaus Sambale (RWTH Aachen University, Germany); Bernhard H. Walke (RWTH Aachen University, Germany)

10:15 – 11:45

S11 - Cognitive Radio I

1 Signal Shaping for PMSE Protection
Paweł Krzywkiewicz (Poznań University of Technology, Poland); Adrian Kliks (Poznań University of Technology, Poland); Hanna Bogucka (Poznań University of Technology, Poland)

2 Non-Linearly Induced Interference and its Mitigation in Cognitive Wideband Receivers
Michael Grimm (Ilmenau University of Technology, Germany); Rajesh Kumar Sharma (Ilmenau University of Technology, Germany); Matthias Hein (Ilmenau University of Technology, Germany); Reiner S. Thomä (Ilmenau University of Technology, Germany)

3 Closed-Loop Extended Orthogonal Space-Time Coding for Cognitive Wireless Relay Networks
Novel spectrum sharing algorithm for maximizing supported WiFi-like secondary users in TV white spaces

Bisera Jankuloska (Faculty of Electrical Engineering and Information Technologies Ss Cyril and Methodius University, Macedonia); Vladimir Atanasovski (Ss Cyril and Methodius University in Skopje, Macedonia); Liljana Gavrilovska (Ss Cyril and Methodius University - Skopje, Macedonia)

10:15 – 11:45

S12 - Multiantenna Techniques

1 Low Speed Feedback for Grassmannian Beamforming in MIMO-OFDM with Frequency Selective Channel
Igor Gutman (Ben-Gurion University of the Negev, Israel); Dov Wulich (Ben Gurion University, Israel)

2 Distributed Beamforming Using One Bit of Feedback: AWGN Analysis
Lazar Berbakov (Centre Tecnologic de Telecomunicacions de Catalunya, Spain); Carles Antón-Haro (Centre Tecnologic de Telecomunicacions de Catalunya (CTTC), Spain); Javier Matamoros (Centre Tecnologico de Telecomunicacions de Catalunya, Spain)

3 Maximizing Spectral Efficiency with Acceptable Service Provision in Multiple Antennas Scenarios
Francisco Rafael Marques Lima (Wireless Telecom Research Group (GTEL), Brazil); Níbia Bezerra (Wireless Telecommunications Research Group - Federal University of Ceará, Brazil); Ricardo dos Santos (Wireless Telecom Research Group (GTEL), Brazil); Tarcisio F. Maciel (Federal University of Ceará, Brazil); Walter Cruz Freitas (Federal University of Ceará, Brazil); Francisco R. P. Cavalcanti (Federal University of Ceará, Brazil)

4 A Simple Delay Compensation System in Software-Defined Frequency Modulated Continuous (FMCW) Radar
Ananto Prasetiadi (Bandung Institute of Technology, Indonesia); Andriyan B. Suksmono (Bandung Institute of Technology, Indonesia)

5 Fast and Efficient Transmit Antenna Selection Algorithms in Spatial Multiplexing Systems
Liang Zhou (Fujitsu Laboratories Ltd., Japan); Yoji Ohashi (Fujitsu, Japan)

10:15 – 11:45

S13 - Terahertz Communications – Invited Session organized and chaired by Thomas Kürner (Technische Universität Braunschweig, Germany)

1 Calibrated Broadband Ray Tracing for the Simulation of Wave Propagation in mm and sub-mm Wave Indoor Communication Channels
Sebastian Priebe (Technische Universität Braunschweig, Germany); Martin Jacob (Technische Universität Braunschweig, Germany); Thomas Kürner (Technische Universität Braunschweig, Germany)

2 THz and IR Signaling through Fog Scintillations
Lothar Moeller (Bell Labs, USA), Ke Su (NJIT, USA), Robert B. Barat (NJIT, USA), John F. Federici (NJIT, USA)

3 Terahertz Communications Technologies Based on Photonic and Electronic Approaches
Tadao Nagatsuma (Osaka University, Japan)

4 Broadband Active Integrated Circuits for Terahertz Communication
Ingmar Kalffass (Karlsruhe Institute of Technology, Germany); Jochen Antes (Karlsruhe Institute of Technology, Germany); Daniel Lopez-Diaz (Fraunhofer-Institut für Angewandte Festkörperphysik IAF, Germany); Sandrine Wagner (Fraunhofer IAF,
S14 - Relays – Invited Session organized and chaired by Thomas Haustein (Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut, Germany)

1. Cell Range Extension in LTE In-Band Relays
   Anzil Abdul Rasheed (Ericsson, Finland); Stefan Wager (Ericsson Research, Finland)

2. Cooperative Feeder Links for Relay Enhanced Networks
   Wolfgang Zirwas (Nokia Siemens Networks GmbH&CoKG, Germany); Michael Grieger (Technische Universität Dresden, Germany); Umer Zeeshan (KTH, Germany)

3. Achievable Energy per Bit for the Multi-Pair MIMO Bidirectional Broadcast Channel
   Tan Tai Do (KTH, Royal Institute of Technology, Sweden); Tobias J. Oechtering (KTH Royal Institute of Technology, Sweden); Mikael Skoglund (KTH Royal Institute of Technology, Sweden)

4. Multi-User Data Sharing Using Coordinator with Network Coding and Layered Transmission
   Keiichi Mizutani (Tokyo Institute of Technology, Japan); Thomas Haustein (Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut, Germany); Kei Sakaguchi (Tokyo Institute of Technology, Japan)

5. SNR Thresholds to Meet a Given Error Rate with Practical Cooperative Relaying
   Kevin Dorling (University of Calgary, Canada); Stefan Valentin (Bell Labs, Germany)

Panel Session II - Trends in the Future of Wireless Communications (organized by Luis M. Correia)

Participants: Luis M. Correia, Werner Mohr, Lajos Hanzo, Rafał Dziedzic, Bernhard H. Walke

Plenary Session II

1. The Fifth MIMO: Coherent vs Non-Coherent and Colocated vs Distributed Architectures
   Lajos Hanzo, University of Southampton, United Kingdom

2. Impulse Radio UWB with Time Reversal
   Maria-Gabriella Di Benedetto, University of Rome La Sapienza, Italy

S15 - Cognitive Radio II

1. Making a Blind Date the Guaranteed Rendezvous in Cognitive Radio Ad Hoc Networks
   Sylwia Antonina Romaszko (RWTH Aachen University, Germany)

2. Some Comments to Application of Cognition Principle in Wireless Networks
   Valeri Ya Kontorovich (Cinvestav ipn mx, Mexico)

3. Performance Evaluation of Cooperative Spectrum Sensing in Multiband Environments
   Valentina Pavlovskia (Skopje, Macedonia); Vladimir Atanasovski (Ss Cyril and Methodius University in Skopje, Macedonia); Liljana Gavrilovska (Ss Cyril and Methodius University - Skopje, Macedonia)
4 Channel Switching-Aware Optimal Reconfiguration in Cognitive Radio Networks  
Stamatios Arkoulis (NTUA, Cyprus); Vangelis Anifantis (National Technical University of Athens, Greece); Vasileios A Karyotis (National Technical University of Athens, Greece); Symeon Papavassiliou (Institute of Comm. and Comp. Systems/National Technical University of Athens, Greece); Nicolas Mitrou (NTUA, Greece)

17:00 – 18:30  
S16 - Energy Efficiency in Wireless Communications - I

1 Energy consumption analysis of geographic routing in WSNs with location error  
Ana-Maria Popescu (University of Leeds, United Kingdom); Naveed Salman (University of Leeds, United Kingdom); Andrew H. Kemp (University of Leeds, United Kingdom)

2 A Hybrid Cooperative Design for Energy-Efficient Surveillance in Wireless Multimedia Sensor Networks  
Mohammad Alaei (Universitat Politècnica de Catalunya (UPC), Spain); Jose M. Barcelo-Ordinas (Universitat Politècnica de Catalunya (UPC), Spain)

3 Energy Efficient Multicast Data Delivery using Cooperative Mobile Clouds  
Prasanth Karunakaran (University of Oulu, Finland); Hamidreza Bagheri (University of Oulu, Finland); Marcos D Katz (University of Oulu, Finland)

4 Energy Efficient Clustering using a Wake-up Receiver  
Johannes Blanckenstein (EADS Innovation Works, Germany); Jirka Klaue (EADS Innovation Works, Germany); Holger Karl (University of Paderborn, Germany)

17:00 – 18:30  
S17 - Network coding – Invited Session organized and chaired by Alister G. Burr (University of York, United Kingdom)

1 Iterative Processing for Cooperative Wireless Communications Allowing Intra-Link Errors - from the Slepian Wolf Theorem Viewpoint  
Tad Matsumoto (Japan Advanced Institute of Science and Technology, Japan); Alister G. Burr (University of York, United Kingdom)

2 Energy Efficiency of HARQ-IR for Two-Way Relay Systems with Network Coding  
Jinho Choi (Swansea University, United Kingdom); Duc To (Swansea University, United Kingdom)

3 Systematic Design of Hierarchical Network Code Mapper for Butterfly Network Relaying  
Tomas Uricar (Czech Technical University in Prague, Czech Republic); Jan Sykora (Czech Technical University in Prague, Czech Republic)

4 Sum-Rate Maximization of Coordinated Direct and Relay Systems  
Fan Sun (Aalborg University, Denmark); Petar Popovski (Aalborg University, Denmark); Chan Dai Truyen Thai (Aalborg University, Denmark); Elisabeth de Carvalho (Aalborg University, Denmark)

17:00 – 18:30  
S18 - Vehicular to Vehicular Communications – Invited Session organized by Rolf Krämer (IHP Frankfurt, Germany) and Rüdiger Kays (Dortmund University of Technology, Germany)

1 Co-operative ITS - Standardization: Improving Road Safety and Traffic Efficiency  
Achim Brakemeier (Daimler Research & Technology, Germany)

2 Challenges and Improvement Strategies for the Physical Layer in Vehicular Communications  
Robert Budde (Dortmund University of Technology, Germany); Rüdiger Kays (Dortmund University of Technology, Germany)
3 eCoMove: Cooperative ITS for Green Mobility
Jean-Charles Pandazis (ERTICO - ITS Europe, Belgium)

Friday, April 20

8:30 – 10:00 S19 - Energy Efficiency in Wireless Communications - II

1 Traffic Based Energy Saving Strategies for Green Cellular Networks
Simone Morosi (University of Florence, Italy); Enrico Del Re (University of Florence, Italy); Pierpaolo Piunti (University of Florence - CNIT, Italy)

2 Network Deployment and RRM Strategies for Green Mobile Communications
Simone Morosi (University of Florence, Italy); Alessio Fanfani (University of Florence - CNIT, Italy); Enrico Del Re (University of Florence, Italy)

3 Performance of Relay-Enhanced Networks under Transmission Power Constraints
Jacek Góra (Nokia Siemens Networks, Poland)

4 Energy Optimization in Cellular Networks with Micro-/Pico-cells using Markov Decision Process
Ziaul Haq Abbas (University of Agder, Norway); Frank Y. Li (University of Agder, Norway)

8:30 – 10:00 S20 - Spectrally Efficient Digital Communication in the Presence of Nonlinear Distortions – Invited Session (organized and chaired by Dov Wulich, Ben Gurion University, Israel)

1 On Achievable Rate of Multicarrier with Practical High Power Amplifier
Igor Gutman (Ben Gurion University of the Negev, Israel); Dov Wulich (Ben Gurion University, Israel)

2 PAPR Reduction in MIMO OFDM Using Unitary Matrix Precoding
Doron Ezri (Greenair Wireless Ltd., Israel); Genadiy Tsodik (Autotalks Ltd., Israel)

3 Peak-to-Average Power Ratio Distribution Analysis for Single-Carrier FDMA Systems
Hideki Ochiai (Yokohama National University, Japan)

4 Signal Shaping by Selected Mapping for Unique-Word OFDM
Johannes Huber (University of Erlangen-Nuremberg, Germany); Mathis Seidl (University of Erlangen-Nuremberg, Germany)

5 A Model for OFDM Signals with Applications
Igal Kotzer (Tel Aviv University, Israel); Smadar Har-Nevo (Tel Aviv University, Israel); Sasha Sodin (IAS, Princeton, USA); Simon Litsyn (Tel Aviv University, Israel)

8:30 – 10:00 S21 - Modulation and Coding I

1 Space-Time Multilevel Coded Modulation with Iterative Detection for Multiple-Antenna Transmission
Yi Wang (University of York, United Kingdom); Alister G. Burr (University of York, United Kingdom)

2 Adaptive Modulation and Coding with Hybrid-ARQ for Latency-constrained Networks
Tania Villa (Institut Eurecom, France); Ruben Merz (Deutsche Telekom Laboratories, Germany); Raymond Knopp (Institut Eurecom, France); Uday Takyar (EPFL, School of
3  **Rotationally Invariant Coded Modulation for Physical Layer Network Coding in Two-way Relay Fading Channel**  
Dong Fang (University of York, United Kingdom); Alister G. Burr (University of York, United Kingdom)

4  **Extending Constellation Shaping by Shell Mapping Method to Reduce the Peak and Average Power of Space-Time Block Coded OFDM Systems**  
Corneliu Eugen D. Sterian (Polytechnic University of Bucharest, Romania); Andrei Alexandru Enescu (University Politehnica of Bucharest, Romania)

10:00 – 11:00  **Plenary III**  
*Polar Coding: Theory and Potential for Applications*  
Erdal Arikan, Bilkent University, Ankara, Turkey

10:00 – 11:00  **Special Session**  
Presentations of the sponsors and companies participating in the conference exhibition  
1  **LightRadio™ Even Lighter – Wi-Fi Integration**  
Krzysztof Zięcina, Alcatel-Lucent, Warsaw  
2  **IAF GmbH – Ch. Juchems, KMDC Dresden – K. Kojucharow, N.A.T.**  
3  **Farnell Polska, Ltd.**

11:30 – 13:00  **Panel Session III (organized by H. Bogucka, Poznan University of Technology, Poland)**  
**Cognitive Radio Issues and Practical Solutions**  
1  **Cognitive Radio - Issues and Practical Solutions – Introduction**  
Hanna Bogucka, Poznań University of Technology, Poznan, Poland  
2  **Primary User Interference Measurement and Analysis**  
Gordon Stuber, Georgia Institute of Technology, Atlanta, USA  
3  **Cross-layer issues to incorporating cognitive radio algorithms**  
James Neel, Cognitive Radio Technologies, Lynchburg, VA, USA  
4  **White space - beyond the TV bands machine to machine communications licensing**  
Keith Nolan - Trinity College Dublin, Ireland  
5  **Technological Issues and Questions Regarding Broadband Spectrum Aggregation with Cognitive Radios**  
Raymond Knopp - EURECOM - Sophia Antipolis, France

11:30 – 13:00  **S22 - Future Heterogeneous Networks – Invited Session organized and chaired by Emilio Calvanese Strinati (CEA-LETI, MINATEC, France)**  
1  **Energy Efficiency and Capacity of Heterogeneous Network Deployment in LTE-Advanced**  
Louai Saker (Orange Labs, France); Salah Eddine Elayoubi (Orange Labs, France); Tijani Chaheed (Telecom SudParis, France); Azeddine Gati (Orange-France Telecom, France)  
2  **Investigation on Transmission Power Control in Heterogeneous Network Employing Cell
Range Expansion for LTE-Advanced Uplink
Akihito Morimoto (NTT DOCOMO, Inc., Japan); Nobuhiko Miki (NTT DOCOMO, Inc., Japan); Hiroyuki Ishii (DOCOMO Innovations, Inc, Japan); Daisuke Nishikawa (NTT DOCOMO, Inc., Japan)

Network Throughput and Energy Efficiency in MIMO Femtocells
Tri Minh Nguyen (Kyung Hee University, Korea); Hyundong Shin (Kyung Hee University, Korea); Tony Q. S. Quek (Institute for Infocomm Research, Singapore)

In-Cabin Downlink Cell Planning with Fractional Frequency Reuse
Alvaro Valcarce (TriaGnoSys, Germany); Merce Lucas (TriaGnoSys, Germany); David López-Pérez (King's College London, United Kingdom)

14:00 – 15:30
S23 - Topics on WLANs and WiMAX
1 On the Performance Evaluation of CSMA/E2CA Protocol with Open Loop ARF-Based Adaptive Modulation and Coding
Gabriel Martorell (Universitat de les Illes Balears, Spain); Felip Riera-Palou (University of the Balearic Islands, Spain); Guillem Femenias (University of the Balearic Islands, Spain); Jaume Barcelo (Universitat Pompeu Fabra, Spain); Boris Bellalta (Universitat Pompeu Fabra, Spain)

2 Adaptive Allocation of Virtual Radio Resources over Heterogeneous Wireless Networks
Luisa Caeiro (Escola Superior de Tecnologia de Setubal - Polytechnic Institute of Setubal, Portugal); Filipe D. Cardoso (ESTSetubal/Polytechnic Institute of Setubal, Portugal); Luis M. Correia (IST - Technical University Lisbon, Portugal)

3 On the Importance of Loss Differentiation for Link Adaptation in Wireless LANs
Lito Kriara (The University of Edinburgh, United Kingdom); Sofia Pediaditaki (Intel Labs Barcelona - UPC, Spain); Mahesh K Marina (The University of Edinburgh, United Kingdom)

4 Performance Evaluations and a Power Management Mechanism for Mobile WiMAX Systems
Dinh Nga (Bell Labs Seoul, Korea)

14:00 – 15:30
S24 - Measurements and Localization Issues
1 Frequency Domain Channel Measurements for Wireless Localization - Practical Considerations and Effects of the Measurement
Timo Dammes (Dortmund University of Technology, Germany); Wolfgang Endemann (Dortmund University of Technology); Ruediger Kays (Dortmund University of Technology, Germany)

2 Modification of Selected Propagation Models in Terms of Path Loss Estimation in Container Terminal
Slawomir J. Ambroziak (Gdansk University of Technology, Poland); Ryszard Katulski (Gdansk University of Technology, Poland)

3 Performance Evaluation of Threshold-Based TOA Estimation Techniques Using IR-UWB Indoor Measurements
Lei Yu (University of Rennes 1, IETR labs, France); Mohamed Laaraiedh (University of Rennes 1, France); Stéphane Avrillon (Université de Rennes 1, France); Bernard Uguen (Université Rennes I, France); Julien Keignart (CEA - LETI, France); Julien Stephan (SIRADEL, France)

4 On Estimation Aspects of WLAN Secondary Spectrum Availability in ATC Radar Band
Jovan Karamacoski (Faculty of Electrical Engineering and Information Technologies, Macedonia); Pero Latkoski (Ss Cyril and Methodius University - Skopje, Macedonia);
14:00 – 15:30  **S25 - Modulation and Coding II**

1. *Design and Optimization of Combined Constellation Shaping and Bit LDPC Coded Modulation Using EXIT Chart*
   Tarek Arafa (University of Kaiserslautern, Germany); Wolfgang Sauer-Greff (University of Kaiserslautern, Germany); Ralf Urbansky (University of Kaiserslautern, Germany)

2. *Branch canceling technique for turbo TCM decoding*
   Michał Sybis (Poznań University of Technology, Poland)

   Maciej Krasicki (Poznań University of Technology, Poland)

15:30 – 16:00  **Official closing of the conference**