

EUROPEAN WIRELESS 2018: Detailed Program

Wednesday, May 2

09:30 – 10:00: Registration	
10:00 – 11:30 Tutorial 1: Cell-Free and User-Centric Massive MIMO Cellular Networking Architectures (BallRoom) Prof. S. Buzzi, University of Cassino, Italy	10:00 – 11:30 Tutorial 2: Connectivity of nano sensors in health care and agritech (Dining Room) Dr. João Pedro Battistella Nadas. , University of Glasgow, UK
11:30 – 12:00 Coffee Break	
12:00 – 13:30 Tutorial 1: Cell-Free and User-Centric Massive MIMO Cellular Networking Architectures (BallRoom) Prof. S. Buzzi, University of Cassino, Italy	12:00 – 13:30 Tutorial 2: Connectivity of nano sensors in health care and agritech (Dining Room) Dr. João Pedro Battistella Nadas. , University of Glasgow, UK
13:30 – 14:30 Lunch	
14:30 – 16:00 Tutorial 3: Cloudification of 5G and beyond (BallRoom) Prof. E. Calvanese Strinati, CEA-Leti, France	14:30 – 16:00 Tutorial 4: Intra-flow sparse network coding: Modeling and open issues (Dining Room) Prof. R. Agüero Calvo, University of Cantabria, Spain
16:00 – 16:30 Coffee Break	
16:30 – 18:00 Tutorial 3: Cloudification of 5G and beyond (BallRoom) Prof. E. Calvanese Strinati, CEA-Leti, France	16:30 – 18:00 Tutorial 4: Intra-flow sparse network coding: Modeling and open issues (Dining Room) Prof. R. Agüero Calvo, University of Cantabria, Spain
19:00 – 20:00 Welcome Reception (Garden)	

Thursday, May 3

08:30 – 09:00 Opening	
09:00 – 09:45 Keynote 1: Learning from the sky: autonomous flying access networks for beyond 5G (BallRoom) Prof. D. Gesbert, Eurecom, France	
09:45 – 11:00 Session 1 (Dining Room) Chair: Frank Fitzek (TU Dresden) <ul style="list-style-type: none"> • Joint Optimization of Both m and K for the m-out-of-K Rule for Cooperative Spectrum Sensing by Narasimha Rao Banavathu by Narasimha Rao Banavathu; Mohammed Zafar Ali Khan • On the Best-Next-Hop in Random Ad-hoc Networks by Yiftach Richter • IoT Data Processing at the Edge with Named Data Networking by Marica Amadeo; Claudia Campolo; Antonella Molinaro; Giuseppe Ruggeri • Coded Slotted Aloha (CSA) with Capture by Fulvio Babich; Massimiliano Comisso 	09:45 – 11:00 Session 2 (BallRoom) Chair: Luca Sanguinetti (University of Pisa & CentraleSupélec, Italy) <ul style="list-style-type: none"> • Density Based Clustering for Downlink User Grouping in FDD Massive MIMO by Alessandro Grassi; Martin Kurras; Giuseppe Piro; Gennaro Boggia; Stephan Faehse; Lars Thiele • Statistical Approaches for Initial Access in mmWave 5G Systems by Hossein Soleimani; Raúl Parada; Stefano Tomasin; Michele Zorzi • Queue-Aware Scheduling in Full Duplex OFDMA Wireless Networks with Imperfect Channel State Information by Hassan Fawaz; Samer Lahoud; Melhem El Helou; Marc Ibrahim • Energy-Efficiency Analysis of Cloud Radio Access Network in Heterogeneous 5G Networks by Fabrizio Granelli; Riccardo Bassoli; Marco Di Renzo
11:00 – 11:20 Coffee Break	

<p>11:20 – 12:35 Special Session: Long Range Techniques for the IoT (Cost Action IRACON) (BallRoom) Chair: Luca Feltrin (University of Bologna, Italy)</p> <ul style="list-style-type: none"> • NB-IoT: Performance Estimation and Optimal Configuration by Luca Feltrin; Massimo Condoluci; Toktam Mahmoodi; Mischa Dohler; Roberto Verdone • Adaptive Mitigation of the Air-Time Pressure in LoRa Multi-Gateway Architectures by Francesca Cuomo; Manuel Campo; Enrico Bassetti; Lorenzo Cartella; Federica Sole; Giuseppe Bianchi • Smart City Pilot Project Using LoRa by Gianni Pasolini; Chiara Buratti; Luca Feltrin; Flavio Zabini; Roberto Verdone; Oreste Andrisano; Cristina De Castro • LoRa-like CSS-based PHY Layer Capture Effect and Serial Interference Cancellation by Umer Noreen; Laurent Clavier; Ahcene Bounceur 	<p>11:20 –12:35 Special Session: Measuring and programming networks for QoE: MONROE and beyond (Dining Room) Chair: Vincenzo Mancuso (IMDEA Networks Institute, Spain)</p> <ul style="list-style-type: none"> • Elastic Content Distribution Based on Unikernels and Change-Point Analysis by Polychronis Valsamas; Sotiris Skaperas; Lefteris Mamatas • Studying Forwarding Differences in European Mobile Broadband with a Net Neutrality Perspective by Enrico Gregori; Valerio Luconi; Alessio Vecchio • Design and Large-Scale Evaluation of WiFi Proximity Metrics by Aymen Fakhreddine; Nils Ole Tippenhauer; Domenico Giustiniano • Quality of Experience Estimation for WebRTC-based Video Streaming by Yevgeniya Sulema; Noam Amram; Oleksii Aleshchenko; Olena Siva
<p>12:35 – 13:05 Lunch</p>	
<p>13:05 – 14:00 Industrial Exhibition (Renaissance Hall)</p>	
<p>14:00 – 14:45 Keynote 2: Multiple Access for 5G – A New Look on NOMA (BallRoom)</p> <p>Prof. H. Sari, Nanjing University of Posts and Telecommunications and Sequans Communications, China</p>	
<p>14:45 – 16:00 Session 5 (BallRoom) Chair: Daniel E. Lucani (Aalborg University, Denmark)</p> <ul style="list-style-type: none"> • Polar Codes and Polar Lattices for the Heegard-Berger Problem by Jinwen Shi; Ling Liu; Deniz Gündüz; Cong Ling • Throughput Increase Through Layered Coding for AMC with HARQ by Mohammed Jabi; Leszek Szczecinski; Mustapha Benjillali; Abdellatif Benyouss • On the Design of a Joint Compressed Sensing and Network Coding Framework by Maroua Taghouti; Anil Kumar Chorppath; Tobias Waurick; Frank H.P. Fitzek • Latency Performance of Encoding with Random Linear Network Coding by Lars Nielsen; René Rydholm Hansen; Daniel E. Lucani 	<p>14:45 – 16:00 Session 6 (Dining Room) Chair: Stefano Buzzi (University of Cassino and Lazio Meridionale/CNIT, Italy)</p> <ul style="list-style-type: none"> • Hybrid Precoding for Multi-Group Physical Layer Multicasting by Meysam Sadeghi; Luca Sanguinetti; Chau Yuen • Accurate Estimation of the Minimum Primary Channel Activity Time in Cognitive Radio Based on Periodic Spectrum Sensing Observations by Miguel López-Benítez; Ahmed Al-Tahmeesschi; Dhaval Patel • Coordinated Resource Allocation Scheme for 5G Direct Air-to-Ground Communication by Michal Vondra; Ergin Dinc; Cicek Cavdar • Cooperation Group Size in Opportunistic Wireless Mesh: Optimal Versus Practical Sreekrishna Pandi; Ievgenii Anatolijovuch Tsokalo; Simon Wunderlich; Frank H.P. Fitzek
<p>16:00 – 16:15 Coffee Break</p>	
<p>16:15 – 17:30 Workshop GET-IoT (BallRoom) GET-IoT: Giuseppe Araniti (University "Mediterranea" of Reggio Calabria, Italy)</p> <ul style="list-style-type: none"> • Advanced Wireless M-Bus Platform for Intensive Field Testing in Industry 4.0-Based Systems by Pavel Masek; David Hudec; Jan Krejci; Aleksandr Ometov; Jiri Hosek; Sergey Andreev; Franz Kröpfel; Yevgeni Koucheryav • Header Compression in Opportunistic Routing by Máté Tömösközi; Ievgenii Anatolijovuch Tsokalo; Sreekrishna Pandi; Frank H.P. Fitzek; Péter Ekler • Design Principles of a Fully-Passive RFID-based IoT Sensing Node by Massimo Merenda; Sara Pizzi; Riccardo Carotenuto; Antonella Molinaro; Francesco Della Corte; Antonio Iera • A Scalable and License Free 5G Internet of Radio Light Architecture for Services in Train Stations by John Cosmas; B Meunier; Kareem Ali; Nawar Jawad; Mukhald Salih; Hongying Meng; Javier Royo; Pablo Fernandez; Zion Hadad; Baruch Globen; Haluk Gokman; Sibel Malkos; Memduh Cakan; Anastasios Kourtis; Harilaos Koumaras; Christos Sakkas; Eliron Salomon; Yoav Avinoam; Daniel Negru; Mathias Lacaud; Yue Zhang; Li-Ke Huang; Rudolf Zetik; Wojciech Mazurczyk; Adam Kapovits; Krzysztof Cabaj 	<p>16:15 – 17:30 Session 7 (Dining Room) Chair: Christian Bettstetter (University of Klagenfurt, Austria)</p> <ul style="list-style-type: none"> • An Open Source Platform for Exploring NB-IoT System Performance by Sergio Martiradonna; Alessandro Grassi; Giuseppe Piro; Luigi Alfredo Grieco; Gennaro Boggia • Experimental Study of UWB Connectivity in Industrial Environments by Jorge F. Schmidt; Daniel Neuhold; Jirka Klau; Dominic A. Schupke; Christian Bettstetter • To Recode or Not to Recode: Optimizing RLNC Recoding and Performance Evaluation over a COTS Platform by Pablo Garrido; Alfonso Fernandez; Ramón Agüero • A Standard-Compliant and Information-Centric Communication Platform for the Internet of Drones by Pietro Boccadoro; Mauro Losciale; Giuseppe Piro; Luigi Alfredo Grieco
<p>18:30 – 23:00 Social Tour and Dinner</p>	

Friday May 4

09:00 – 09:45 Keynote 3: Toward an Optimization-Based Wireless Network Operating System (BallRoom)	
Prof. T. Melodia, Northeastern University, USA	
09:45 – 11:00 Session 8 (Dining Room) Chair: Laura Galluccio (University of Catania, Italy)	09:45 – 11:00 Session 9 (BallRoom) Chair: Stefano Tomasin (University of Padova, Italy)
<ul style="list-style-type: none">• On Performance of Multilevel Coding Schemes Based on Non-Binary LDPC Codes by Stanislav Kruglik; Valeriya Potapova; Alexey A. Frolov• From Reactive to Predictive Flow Instantiation: An Artificial Neural Network Approach to the SD-LoT by Sebastiano Milardo; Akhilesh Venkatasubramanian; Krithika Vijayan; Nagaradjane Prabagarane; Giacomo Morabito• Efficient Quaternion-Based Fast-Decodable Space Time Codes by Erum Mushtaq; Sajid Ali; Syed Ali Hassan• Spectrum Sensing of DVB-T2 Signals in Multipath Channels for Cognitive Radio Networks by Oluyomi Simpson	<ul style="list-style-type: none">• Energy-Efficient Power Control for Drones by Farshad Shams; Giacomo Bacci; Luca Sanguinetti• On the Application of Network Slicing for 5G-V2X by Hamza Khan; Petri Luoto; Mehdi Bennis; Matti Latva-aho• Context-aware Handover in mmWave 5G Using UE's Direction of Pass by Raúl Parada; Michele Zorzi• CSI Feedback with Feedforward Signaling and Adaptive Codebook for Cellular FDD Systems by Xiaoyu Zhang; Stefano Tomasin; Nevio Benvenuto; Xiliang Luo; Shaoshi Yang
11:00 – 11:20 Coffee Break	
11:20 – 12:30 Workshop: COCOA (BallRoom) Chair: Alessio Zappone (CentraleSupélec, France)	
Keynote: Wyner Meets Walras on an Interference Channel, Prof. Eduard A. Jorswieck, TU Dresden, Germany (BallRoom)	
Robust Geometry-Based User Scheduling for Large MIMO Systems Under Realistic Channel Conditions by Manijeh Bashar; Alister G. Burr; Dick Maryopi; Katsuyuki Haneda; Kanapathippillai Cumanan	
On Practical Coexistence Gaps in Space for LTE-U/WiFi Coexistence by Anatolij Zubow; Piotr Gawłowicz; Suzan Bayhan	
12:30 – 13:30 Panel: The Future of Wireless Networking: Evolution or Revolution? Moderator: Prof. G. Bianchi, University of Rome Tor Vergata, Italy (BallRoom)	
13:30 – 14:00 Lunch	