



## SEVENTH NORDIC WORKSHOP ON SYSTEM AND NETWORK OPTIMIZATION FOR WIRELESS

17-19 January, 2016, CORTINA D'AMPEZZO, ITALY

### Saturday 16<sup>th</sup> January

19:00 Welcome Reception

### Sunday 17<sup>th</sup> January

10:00 – 13:00 Networking

13:00 – 15:00 Lunch break

15:00 – 15:10 Opening: Matti Latva-aho, University of Oulu

15:10 – 15:35 “Broadcast-Based Routing Protocol for Smart Lighting Systems”, Andrea Stajkic, Chiara Buratti (University of Bologna), Roberto Verdone

15:35 – 16:00 “On Minimum Age Link Scheduling in Wireless Systems”, Qing He (Linköping University)

16:00 – 16:20 Coffee break

16:20 – 17:05 Keynote talk: “IoT and 5G: Verticals and Network Architectures”, Roberto Verdone, University of Bologna

17:05 – 17:30 “Adaptive Message Routing and Information Acquisition in Dynamic Mobile Networking Environments”, Ioannis Stavrakakis (University of Athens)

17:30 – 17:45 Coffee break

17:45 – 17:10 “Bounds on Rate-Distortion for Compressed Sensing”, Markus Leinonen (University of Oulu), Marian Codreanu, Markku Juntti, Gerhard Kramer

17:10 – 18:35 “On the Performance of a Full Duplex Relay in a Multi-user Network with Random Access”, Nikolaos Pappas (Linköping University)

18:35 – 19:00 “How Accurately Should We Calibrate a Massive MIMO TDD System?”, Xiwen Jiang (EURECOM), Florian Kaltenberger

19:00 – 19:25 “TBD”, Emilio Calvanese Strinati (CEA-LETI)

20:00 Dinner

## Monday 18'th January

10:00 – 13:00 Networking

13:00 – 15:00 Lunch break

15:00 – 15:25 “Cybersecurity Considerations for Communication Based Train Control”, Simone Soderi (Alstom Signalling Solutions), Matti Hämäläinen, Jari Linatti

15:25 – 15:50 “Inter-Carrier Interference Analysis for High Speed Trains based on Broadband Channel Measurements”, Eric Simon, Florian Kaltenberger (EURECOM)

15:50 – 16:10 Coffee break

16:10 – 16:55 Keynote talk: David Gesbert, EURECOM

16:55 – 17:20 “Millimeter Waves Interference Models”, Carlo Fischione (KTH Royal Institute of Technology)

17:20 – 17:35 Coffee break

17:35 – 18:00 “Energy Efficiency Optimization of Dense Heterogeneous Networks”, Tommy Svensson (Chalmers University of Technology)

18:00 – 18:25 “Traffic Aware Resource Allocation Schemes for Multi-Cell MIMO-OFDM Systems”, Antti Tölli (University of Oulu)

18:25 – 18:50 “Load Modulated Single-RF MIMO”, Ralf Müller (University of Erlangen-Nuremberg)

18:50 – 19:15 “Multidimensional Phase Shift Keying - A Low PASPR Constellation Scheme for MIMO Systems”, Christoph Rächinger (University of Erlangen-Nuremberg), Ralf Müller, and Johannes B. Huber

19:15 – 19:40 “N-continuous OFDM with Minimum In-Band Interference”, Medhat Mohamad (Luleå University of Technology), Rickard Nilsson, and Jaap van de Beek

20:00 Gala Dinner

## Tuesday 19<sup>th</sup> January

10:00 – 13:00 Networking

13:00 – 15:00 Lunch break

15:00 – 15:25 “Flexible Allocation of Heterogeneous Resources to Services on an IoT Device”, Ioannis Avgouleas (Linköping University)

15:25 – 15:50 “A Diagnostic Method for Power Line Networks by Channel Estimation of Power Line Communication Devices”, Florian Gruber (University of Erlangen-Nuremberg), Katrin Raab, Andreas M. Lehmann, Erik Fischery, Ralf Müller, Johannes B. Huber

15:50 – 16:10 Coffee break

16:10 – 16:55 Keynote talk: “Information Theory for Diamond Networks such as Distributed MIMO”, Gerhard Kramer, Technical University of Munich

16:55 – 17:20 “Convergence of Limited Communications Gradient Methods”, Sindri Magnusson (KTH Royal Institute of Technology)

17:20 – 17:35 Coffee break

17:35 – 18:00 “Intention Sharing for Medium Access Control in Wireless LANs”, Emma Fitzgerald (Lund University), Björn Landfeldt

18:00 – 18:25 “Software Defined Cognitive Networking”, Ijaz Ahmad (University of Oulu)

18:25 – 18:50 “Feedback-Boosted Coded Caching”, Jingjing Zhang (EURECOM) and Petros Elia

18:50 – 19:15 “Asymmetric Multinode Coded Caching in the MIMO BC”, Eleftherios Lampiris (EURECOM), Jingjing Zhang, and Petros Elia

19:15 – 19:25 Closing & SNOW 2017: Matti Latva-aho, University of Oulu & Jaap van de Beek, Luleå University of Technology