



10th IEEE Broadband Wireless Access (BWA 2014)

In conjunction with IEEE GLOBECOM 2014, 8-12 December 2014, Austin, USA

Workshop program

09:00 - 09:15: Opening Speech (*Room 416*)

09:15 - 09:45: Keynote Speech (*Room 416*)

Prof. Gerhard Fettweis, Vodafone Chair, TU Dresden, Germany
“*Charging-up the Data Rate with Turbo Cells*”

09:45 - 10:45: Morning sessions 1 & 2

Session 1:

(*Room 416*)

Downlink Overloaded Multiple Access Based on Constellation Expansion

Alberto G. Perotti, Huawei Technologies Sweden AB

Jaap van de Beek, Lulea University of Technology & Huawei Technologies

Branislav M. Popovic, Huawei Technologies Sweden AB

Performance of FBMC Multiple Access for Relaxed Synchronization Cellular Networks

Jean-Baptiste Doré, CEA-LETI, France

Vincent Berg, CEA-LETI, France

Dimitri Kténas, CEA-LETI, France

A Synchronization Algorithm to Facilitate Joint Detection

Andrew Apollonsky, Cooper Union, USA

Sam Keene, Cooper Union, USA

Joint RF and digital beam former design for wireless access systems: From algorithms to measurements

Vijay Venkateswaran, Bell Labs, Alcatel Lucent, Ireland

Florian Pivit, Alcatel Lucent, Ireland

Session 2:

(Room B)

Advanced Downlink MU-MIMO Receiver Based on Modulation Classification

Daiixy Zheng, Beijing University of Posts and Telecommunication, China

Chang Yongyu, Beijing University of Posts and Telecommunication, China

Rongqian Qin, Beijing University of Posts and Telecommunication, China

Hao Xu, Beijing University of Posts and Telecommunication, China

Dacheng Yang, Beijing University of Posts and Telecommunication, China

Reference Receiver Based Digital Self-Interference Cancellation in MIMO Full-Duplex Transceivers

Dani Korpi, Tampere University of Technology, Finland

Lauri Anttila, Tampere University of Technology, Finland

Mikko Valkama, Tampere University of Technology, Finland

A Unified Approach for Representing Wireless Channels using EM-Based Finite Mixture of Gamma Distributions

Omar Alhussein, Simon Fraser University, Canada

Sami Muhaidat, Khalifa University, UAE

Paul D Yoo, Khalifa University, UAE

Jie Liang, Simon Fraser University, Canada

Multi-Cell Multi-User MIMO Downlink with Partial CSIT and Decentralized Design

Yohan Lejosne, EURECOM, France

Atef Ben Nasser, Orange Labs, France

Dirk Slock, EURECOM, France

Yi Yuan-Wu, Orange Labs, France

10:45 -11:00: Coffee break

11:00 - 11:30: Keynote Speech (*Room 416*)

Mr. Hans-Peter Mayer, Lead Next Generation Wireless, Alcatel-Lucent, Germany
“5G – *Communication services and technologies for the 2020s*”

11:30 - 12:30: Morning paper sessions 3 & 4

Session 3:

(Room 416)

Near-Optimal Resource Block and Power Allocation Mechanisms in Uplink for LTE and LTE-Advanced

Naveen Mysore Balasubramanya, University of British Columbia, Canada

Lutz Lampe, University of British Columbia, Canada

Carrier Components Assignment Method for LTE and LTE-A Systems Based on User Profile and Application

Husnu S Narman, University of Oklahoma, USA

Mohammed Atiquzzaman, University of Oklahoma, USA

Power Allocation in OFDM based NOMA Systems: A DC Programming Approach

Priyabrata Parida, Indian Institute of Technology Kharagpur, India

Suvra Sekhar Das, Indian Institute of Technology Kharagpur, India

Session 4:

(Room B)

Distributed Consensus-based Estimation for Small Cell Cooperative Networks

Dirk Wübben, University of Bremen, Germany

Henning Paul, University of Bremen, Germany

Ban-Sok Shin, University of Bremen, Germany

Armin Dekorsy, University of Bremen & Institute for Telecommunications and High-Frequency Techniques, Germany

Cloud-aware power control for cloud-enabled small cells

Pavel Mach, Czech University in Prague, Czech Republic

Zdenek Becvar, Czech University in Prague, Czech Republic

Scalable Video Downlink Multicasting in Multi-cell Cellular Wireless Networks

Hung-Bin Chang, University of California at Los Angeles, USA

Izhak Rubin, University of California at Los Angeles, USA

Ofer Hadar, Ben-Gurion University of The Negev, Israel

12:30 - 14:00: Lunch break

14:00 - 14:30: Keynote Speech (*Room 416*)

Dr. Meziar Nekovec, Chief Scientist Engineer, Samsung R&D, UK

“Technologies for unlocking spectrum above 6 GHz for 5G, including mm-Wave communications”

14:30 - 15:00: Keynote Speech (*Room 416*)

Mr. Andrea Forte, Senior Member of Technical Staff, AT&T, USA

15:00 - 15:15: Coffee break

15:15 - 16:15: Afternoon paper sessions 5 & 6

Session 5:

(Room 416)

Performance Analysis of Network-Assisted Two-Hop D2D Communications

Jose Mairton Barros da Silva, Jr., Federal University of Ceara & Wireless Telecom Research Group, Brazil

Gabor Fodor, Ericsson Research & Royal Institute of Technology, Sweden

Tarcisio F. Maciel, Federal University of Ceara, Brazil

M2M Data Aggregation over Cellular Networks: Signaling-Delay Trade-offs

Nour Kouzhaya, American University of Beirut, Lebanon

Mona Jaber, American University of Beirut, Lebanon

Zaher Dawy, American University of Beirut, Lebanon

Reliable Activity Detection for Massive Machine to Machine Communication via Multiple Measurement Vector Compressed Sensing

Fabian Monsees, University of Bremen & Institute for Telecommunications and High-Frequency Techniques, Germany

Carsten Bockmann, University of Bremen, Germany

Armin Dekorsy, University of Bremen & Institute for Telecommunications and High-Frequency Techniques, Germany

Session 6:

(Room B)

Radio Resource Sharing among Operators through MIMO based Spatial Multiplexing in 5G Systems

Osman Aydin, Alcatel-Lucent Bell Labs, Germany

Danish Aziz, Alcatel-Lucent Bell Labs, Germany

Eduard Jorswieck, TU Dresden, Germany

Two-Way Coding for Interference-Limited Regime -- Algorithms and Feedback Strategies in MISO Interference Channels

Byoung-Yoon Min, Yonsei University, Korea

Jae-Nam Shim, Yonsei University, Korea

Dong Ku Kim, Yonsei University, Korea

Enable Concurrent Transmissions with Beamforming for Broadband Wireless Access in CSMA/CA-based WLANs

Zhaohan Jia, University of Agder, Norway

Xin He, University of Agder, Norway

Frank Y. Li, University of Agder, Norway

16:15 - 17:15: Panel discussion

(Room 416)