Sunday, April 1

W2. Broadband Femtocell Technologies: *"Paving the Way to Heterogeneous Cellular Networks"*

Organizers:

Thierry Lestable, SAGEMCOM SAS, France

Frank Zdarsky, NEC, UK

David Lopez-Perez, King's College London, UK

Guillaume de la Roche, University of Bedfordshire, UK

David López-Pérez (King's College London, United Kingdom); Ismail Guvenc (DOCOMO Innovations, Inc., USA); Xiaoli Chu (King's College London, United Kingdom)

Macro-Femto Inter-Cell Interference Mitigation for 3GPP LTE-A Downlink

Ming Huang (Technical University Munich & Intel Mobile Communication, P.R. China); Wen Xu (Intel & Intel Mobile Communications, Germany)

Enabling Macrocell-Femtocell Coexistence through Interference Draining

Francesco Pantisano (University of Bologna & Centre for Wireless Communications, Finland); Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland); Walid Saad (University of Miami, USA); Matti Latva-aho (UoOulu, Finland); Roberto Verdone (University of Bologna, Italy)

A Fully Distributed Method for Dynamic Spectrum Sharing in Femtocells

Gustavo W. O. Costa (Aalborg University, Denmark); Andrea F. Cattoni (Aalborg University, Denmark); Istvan Z. Kovacs (Nokia Siemens Networks, Denmark); Preben Mogensen (Nokia Siemens Networks, Aalborg, Denmark)

11:00 - 12:30

S2: Broadband Femtocell Technologies II

Room: 324

Chair: David López-Pérez (King's College London, United Kingdom)

Distributed Opportunistic Medium Access Control in Two-Tier Femtocell Networks

Ben Niu (Tsinghua University, P.R. China); Chia-Lin Wu (SUPELEC, Taiwan); Marios Kountouris (Supélec, France); Yunzhou Li (Tsinghua University, P.R. China)

Dynamic Graph-based Multi-cell Scheduling for Femtocell Networks

Kingdom); Atta Ul Quddus (University of Surrey, United Kingdom); Rahim Tafazolli (University of Surrey, United Kingdom)

Use of Learning, Game Theory and Optimization as Biomimetic Approaches for Self-Organization in Macro-Femtocell Coexistence

Communications, University of Oulu, Finland); Lorenza Giupponi (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain)

Virtual-Soft-Handoff-Enabled Dominant Interference Cancellation for Enhanced Uplink Performance in Heterogeneous Cellular Networks

Krishna Balachandran (Bell Labs, Alcatel-Lucent, USA); Joseph H. Kang (Bell Labs, Alcatel-Lucent, USA); Mehmet Kemal Karakayali (Bell Labs, Alcatel-Lucent, USA); Kiran M Rege (Bell Laboratories, Alcatel-Lucent, USA)

14:00 - 15:30

S3: Broadband Femtocell Technologies III

Room: 324

Chair: Thierry Lestable (Sagemcom SAS, France)

Keynote Speech#1: Qualcomm, Director of Standardization, 3GPP RAN3 Chairman

Dino Flore (Qualcomm Inc., USA)

Keynote Speech#2: Alcatel-Lucent Bell Labs
Holger Claussen (Bell Labs, Alcatel-Lucent, United Kingdom)

Primary Component Carrier Selection for a Heterogeneous Network: a Comparison of Selfish, Altruistic and Symmetric Strategies
Parth Amin (Aalto University, Finland); Olav Tirkkonen (Aalto University, Finland); Tero Henttonen (Renesas Mobile Europe, Finland); Esa Pernila (Renesas Mobile Europe, Finland)

16:00 - 17:30

S4: Broadband Femtocell Technologies IV: Closing Session
Room: 324
Chair: Frank A. Zdarsky (NEC Europe Ltd., Germany)

Femtocell Networks: Breaking the Complexity of Centralized Processing with Novel Dual-Stage Receivers
Rizwan Ghaffar (University of Waterloo, Canada); Pin-Han Ho (University of Waterloo, Canada); Umer Salim (Intel Mobile Communications, France); Bin Wu (University of Electronic Science and Technology of China, P.R. China)

Criterion
Tarik Akbudak (University of Duisburg-Essen, Germany); Andreas Czylwik (Universität Duisburg-Essen, Germany)

Bit-Wise Combining for Decode-and-Forward Relays
Namshik Kim (Georgia Institute of Technology, USA); John Barry (Georgia Institute of Technology, USA)

Wireless Over Cable In Femtocell Systems: A Case Study From Indoor Channel Measurements
Jonathan Gambini (Politecnico di Milano, Italy); Stefano Savazzi (Politecnico di Milano, Italy); Paolo Castiglione (FTW, Austria); Umberto Spagnolini (Politecnico di Milano, Italy); Gerald Matz (Vienna University of Technology, Austria)