

Green Wireless Communications and Networks Workshop 2 (GreeNet) Final Programme

Conference Chairman: John Thompson

Date: Sunday 15th May 2011
Time: 0900-17:30

0800-0900 Registration 0900-1010 Opening Session

- (i) Chairman's Opening Remarks
- (ii) David Lister (Vodafone), "An Operator's Perspective on Data Growth and Energy Consumption" – **Plenary Talk.**
- (iii) Shugong Xu (Huawei), "Progress in Green Radio Research and Fundamental framework" – **Plenary Talk.**

1010-1030 Coffee Break

1030-1210 Session 2: Energy Efficient Networks

- (i) Gunther Auer (NTT Docomo), Vito Giannini, Istvan Godor, Per Skillermark, Magnus Olsson, Muhammad Ali Imran, Manuel J. Gonzalez, Claude Desset, Oliver Blume, "Cellular Energy Efficiency Evaluation Framework" – **Invited Paper.**
- (ii) Mythri Hunukumbure, Rajni Agarwal, Sunil Vadgama, (Fujitsu Laboratories of Europe Ltd), "Handover mechanisms for planned cell outage in twin state green wireless networks".
- (iii) Marten Ericson (Ericsson Research), "Total Network Base Station Energy Cost vs. Deployment".
- (iv) Xiangnan Weng, Dongxu Cao, Zhisheng Niu (Tsinghua University), "Energy-Efficient Cellular Network Planning under Insufficient Cell Zooming".
- (v) Clara Serrano, Maria Diaz, Vodafone; Alberto Gomez, Miguel Arranz, Santiago Tenorio (Vodafone), "Vodafone Single RANTM Active Antennas - Efficient Mobile Broadband Networks".

1210-1330 Lunch

1330-1510 Session 2: Energy Efficient Techniques

- (i) Marco Di Renzo (CNRS); Luis Alonso, Frank H.P. Fitzek, Andreas Foglar, Fabrizio Granelli, Fabio Graziosi, Christophe Gruet, Harald Haas, George Kormentzas, Ana I. Perez-Neira, Jonathan Rodriguez, John Thompson, Christos Verikoukis, "GREENET - An Early Stage Training Network in Enabling Technologies for Green Radio" – **Invited Paper.**
- (ii) Mozghan Hedayati, Mehdi Amirijoo, Pal Frenger, Johan Moe, (Ericsson AB), "Reducing Energy Consumption Through Adaptation of Number of Active Radio Units".
- (iii) Anna Pantelidou (Renesas Mobile Corporation), Kalle Lahetkangas, Matti Latva-aho, "An energy-efficiency comparison of RLNC and ARQ in the presence of FEC".

(iv) Hassan Hamdoun, Pavel Loskot, Timothy O'Farrell, Jianhua He, (University of Swansea), "Practical Network Coding for Two Way Relay Channels in LTE Networks".

(v) Dr. Yan Chen, Shunqing Zhang, Shugong Xu, (Huawei), "Impact of Non-ideal Efficiency on Bits per Joule Performance of Base Station Transmissions".

1510-1610 Coffee Break and Poster Session 3

(i) Cengiz Gezer, Chiara Buratti (University of Bologna), "A ZigBee Smart Energy Implementation for Energy Efficient Buildings".

(ii) Pablo Gonzalez-Brevis (University of Edinburgh), Jacek Gondzio, Yijia Fan, H. Vincent Poor John Thompson, Ioannis Krikidis, Pei-Jung Chung, "Base Station Location Optimization for Minimal Energy Consumption in Wireless Networks".

(iii) Christian Isheden, Gerhard Fettweis, (Technische Universitat Dresden), "Energy-Efficient Link Adaptation with Shadow Fading".

(iv) Bin Wang, Li Chen, Xiaohang Chen, Xin Zhang, Dacheng Yang (Beijing University of Posts and Telecommunications), "Resource Allocation Optimization for Device-to-Device Communication Underlying Cellular Networks".

(v) Jan Christoffersson (Ericsson Research), "Energy Efficiency by Cell Reconfiguration; MIMO to non-MIMO and 3-Cell Sites to Omni".

(vi) Xiuxian Lao (Queen Mary University of London), Laurie Cuthbert, Tiankui Zhang, Lin Xiao, "Energy Efficiency and Optimal Resource Allocation in Cooperative Wireless Relay Networks".

(vii) Bernd Bochow, Marc Emmelmann (Fraunhofer FOKUS), "Purpose-driven, Self-growing Networks: a framework for enabling cognition in systems of systems".

(viii) Ronald Mao, Vibhor Julka (Huawei), "Wireless Broadband Architecture Supporting Advanced Metering Infrastructure".

1610-1730 Session 4

(i) Jens Zander (KTH Stockholm), "Energy and Cost Efficient Ultra-High Capacity Wireless Access" – **Plenary Talk.**

(ii) Greenet Workshop Panel Session

(iii) Chairman's Closing Remarks