2012 1st IEEE International Conference on Communications in China Workshops

(ICCC 2012)

Beijing, China
15 – 17 August 2012
Program

Welcome/ Opening address

WS02S01: Keynote Speech

Session 1

Optical Wireless Communications - An Emerging Technology (Invited)
Zabih Ghassemlooy (Northumbria University, United Kingdom)

Subcarrier Intensity Modulated Optical Communications in Strong Atmospheric Turbulence
Xuegui Song (University of British Columbia, Canada); Julian Cheng (University of British Columbia, Canada)
pp. 26-30

Keynote: Line Up For the GREEN Land

Dr. Chih-Lin I

Networking Break

TS1: Green Cellular Network

Overview of Green Radio Research Outcomes
John Thompson (University of Edinburgh, United Kingdom); Chadi Khirallah (The University of Edinburgh, United Kingdom)
pp. 69-73

Fundamental Tradeoffs and Evaluation Methodology for Future Green Wireless Networks
Gaoning He (Huawei Technologies, P.R. China); Shunqing Zhang (Huawei Technologies, Co. Ltd., P.R. China); Yan Chen (Huawei, P.R. China); Shugong Xu (Huawei, P.R. China)
pp. 74-78

Integrated Cross-Layer Energy Savings in a Smart and Flexible Cellular Network
Weisi Guo (University of Sheffield & University of Cambridge, United Kingdom); Siyi Wang (The University of Sheffield, United Kingdom); Charles Turyagyenda (University of Glamorgan, United Kingdom); Timothy O'Farrell (University of Sheffield, United Kingdom)
pp. 79-84

Network Energy Efficiency for Deployment Architectures with Base Station Site Model
Chih-Hsuan Tang (Chunghwa Telecom, Taiwan); Chi-En Wu (Chunghwa Telecom, Taiwan); Chin-Wei Lin (Chunghwa Telecom, Taiwan); Chen-Yin Liao (Chunghwa Telecom Co., Ltd., Taiwan)
On the Energy-Bandwidth Trade-off in Green Wireless Networks: System Level Results
Muhammad Majid Butt (University of Luxembourg, Luxemburg); Benjamin Schubert (Fraunhofer Heinrich Hertz Institute, Germany); Martin Kurras (Fraunhofer Heinrich Hertz Institute, Germany); Kai Börner (Fraunhofer Heinrich Hertz Institute, Germany); Thomas Haustein (Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut, Germany); Lars Thiele (Fraunhofer Heinrich Hertz Institute, Germany)

Session 2

Experimental Demonstration of Polarisation Shift Keying in the Free Space Optical Turbulence Channel
Xuan Tang (Northumbria University, United Kingdom); Zabih Ghassemlooy (Northumbria University, United Kingdom); Sujan Rajbhandari (Northumbria University, United Kingdom); Wasiu O. Popoola (The University of Edinburgh, United Kingdom); Murat Uysal (Ozyegin University, Turkey); Dehao Wu (Northumbria University & OCRG Research Group, United Kingdom)

The color shift key modulation with non-uniform signaling for visible light communication
Bo Bai (Northwestern Polytechnical University, P.R. China); Qunfeng He (University of California, Riverside, USA); Zhengyuan Xu (Tsinghua University, P.R. China); Yangyu Fan (Northwestern Polytechnical University, P.R. China)

Optimisation of Lambertian Order for Indoor Non-directed Optical Wireless Communication
Dehao Wu (Northumbria University & OCRG Research Group, United Kingdom); Zabih Ghassemlooy (Northumbria University, United Kingdom); Hoa Le Minh (Northumbria University, United Kingdom); Sujan Rajbhandari (Northumbria University, United Kingdom); Mohammad-Ali Khalighi (Ecole Centrale Marseille, France); Xuan Tang (Northumbria University, United Kingdom)

WS02S02: Presentation

Appification of Web Applications: Architectural Aspects
Balwinder Sodhi (IIT Kanpur, India); Ashish Agrawal (IIT Kanpur, India); T. V. Prabhakar (IIT Kanpur, India)

MOMCC: Market-Oriented Architecture for Mobile Cloud Computing Based on Service Oriented Architecture
Saeid Abolfazli (University of Malaya, Malaysia); Zohreh Sanaei (University of Malaya, Malaysia); Muhammad Shiraz (University of Malaya, Kuala Lumpur)
Keynote: Towards a Green Internet

Prof. Rod Tucker

Lunch Break

Keynote: A Novel Hyper-Cellular Architecture for Globally Resource-optimized and Energy-Efficient Networks (GREEN)

Prof. Zhisheng Niu

Session 3

Optical Wireless Communications Using the Visible Spectrum (Invited)
Thomas DC Little (Boston University & NSF Smart Lighting ERC, USA)

Simplified calculation method of indoor optical impulse response based on recursive algorithm
Fang Li (Shanghai JiaoTong University, P.R. China); Xinwan Li (Shanghai Jiao Tong University, P.R. China); Weiwen Zou (State Key Laboratory of Advanced Optical Communication Systems and Networks, P.R. China); Jianping Chen (Shanghai Jiao Tong University, P.R. China)

Networking Break

TS2: Energy Efficiency in Wireless Systems

Performance Analysis of Multiuser Uplink Amplify-and-Forward Relay Networks with Fixed-gain Relaying
Guangping Li (Guangdong University of Technology, P.R. China); Steven D Blostein (Queen's University, Canada); Guangchi Zhang (Guangdong University of...
A Resource Configuration Scheme in OFDMA-based Cellular Relay Networks
Hua Chen (Beijing University of Posts and Telecommunications, P.R. China); Mugen Peng (Beijing University of Posts & Telecommunications, P.R. China); Jiamo Jiang (Beijing University of Posts and Telecommunications, P.R. China)
pp. 102-107

Optimizing Dual-Hop Systems under Orthogonal Transmission and Relay Selection Schemes
Guftaar Ahmad Sardar Sidhu (Jacobs University Bremen, Germany); Jianfeng Wang (Huaxin Consulting Co., Ltd, P.R. China); Feifei Gao (Tsinghua University, P.R. China); Lisheng Fan (Shantou University, P.R. China)
pp. 108-112

Radio Resource Allocation for OSC Downlink Channels
Michael A. Ruder (University of Erlangen-Nürnberg, Germany); Raimund Meyer (Com-Research GmbH, Germany); Hans Kalveram (Com-Research GmbH, Germany); Wolfgang Gerstacker (University of Erlangen-Nuernberg, Germany)
pp. 113-118

Spatial-Temporal Compressed Sensing Based Traffic Prediction in Cellular Networks
Qian Wen (Zhejiang University, P.R. China); Zhifeng Zhao (Zhejiang University, P.R. China); Rongpeng Li (Zhejiang University, P.R. China); Honggang Zhang (Zhejiang University, P.R. China)
pp. 119-124

Session 4

Configuring Indoor Visible Light Communication Networks
Jinguo Quan (Harbin Institute of Technology, P.R. China); Yiyang Li (University of California, Riverside, USA); Yan Zhang (Harbin Institute of Technology, P.R. China)
pp. 54-58

Fundamental Analysis for Indoor Visible Light Positioning System
Penghua Lou (Tsinghua University, P.R. China); Hongming Zhang (EE Department, Tsinghua University, P.R. China); Xie Zhang (Tsinghua University, P.R. China); Minyu Yao (EE Department, Tsinghua University, P.R. China); Zhengyuan Xu (Tsinghua University, P.R. China)
pp. 59-63

New Time Diversity Structure Used in Free Space Optics Links with a Tracking system
Peng Liu (North China Electric Power University, P.R. China); Song Liu (North China Electric Power University & Waseda University, P.R. China); XueYing Wu (WASEDA University, Japan)
pp. 64-68

Panel: 5G, think it green, and make it real