

IEEE International Workshop on M2M Communications for Next Generation IoT 2014

Tuesday, June 10

09:00 - 10:30

M2M-01: Keynote and Paper Session 1

Session Chair: Rath Vannithamby

Room: Lvl 2/Rm2

Keynote Speech:

Internet of Things Architecture, Protocols & Standards: Opportunities and Challenges
Paul L. Russell (Senior Principal Engineer, InterDigital)

Device Power Saving Mechanisms for Low Cost MTC Over LTE Networks

Satish Chandra Jha (Intel Corporation, USA); Ali T Koc (Intel Corporation, USA); Rath Vannithamby (Intel, USA)

11:00 - 12:30

M2M-02: Paper Session 2

Session Chair: K. C. Chen

Room: Lvl 2/Rm2

RF Blocking effect evaluation under FDM-based radio resource allocation in the D2D communications

Chun-Yi Wei (National Taipei University, Taiwan); Yan-Xiu Zheng (Researcher, Taiwan)

Underlay of Low-Rate Machine-Type D2D Links on Downlink Cellular Links

Nuno K Pratas (Aalborg University, Denmark); Petar Popovski (Aalborg University, Denmark)

On Cellular Network Planning and Operation with M2M Signalling and Security Considerations

Mona Jaber (American University of Beirut, Lebanon); Nour Kouzayha (American University of Beirut, Lebanon); Zaher Dawy (American University of Beirut, Lebanon); Ayman Kayssi (American University of Beirut, Lebanon)

Analysis of a Prioritized Medium Access Control for 2-Hop Machine-to-Machine (M2M) Communication Networks

Kuan-Ho Huang (National Taiwan University, Taiwan); Shao-An Lin (National Taiwan University, Taiwan); Shin-Yann Ho (National Taiwan University, Taiwan); Yi-Chen Lin (National Taiwan University, Taiwan); I-Wu Lu (National Taiwan University, Taiwan); Jie-Cheng Huang (National Taiwan University, Taiwan); Chun-Ting Chou (National Taiwan University, Taiwan)

Modeling Contention-Based M2M Transmissions over 3GPP LTE Cellular Networks

Amir M. Ahmadian (Tampere University of Technology, Finland); Olga Galinina (Tampere University of Technology, Finland); Sergey Andreev (Tampere University of Technology, Finland); Yevgeni Koucheryavy (Tampere University of Technology, Finland)

14:00 - 15:30

M2M-03: Paper Session 3

Session Chair: Hung-Yu Wei

Room: Lvl 2/Rm2

A Semantic Obfuscation Technique for the Internet of Things

Mahmoud Elkhodr (School of Computing, Engineering and Mathematics, University of Western Sydney, Australia); Seyed Shahrestani (University of Western Sydney, Australia); Hon Cheung (University of Western Sydney, Australia)

Distributed Address Assignment with Address Borrowing for ZigBee Networks

Shu-Chiung Hu (National Chiao-Tung University, Taiwan); Cheng-Kuan Lin (Academia Sinica, Taiwan); Yu-Chee Tseng (National Chiao-Tung University, Taiwan); Wen-Tsuen Chen (National Tsing Hua University, Taiwan)

Performance Evaluation of IEEE 802.11ah and its Restricted Access Window Mechanism

Orod Raeesi (Tampere University of Technology, Finland); Juho Pirskanen (Broadcom & Broadcom, Finland); Ali Hazmi (Tampere University of Technology, Finland); Toni A Levanen (Tampere University of Technology, Finland); Mikko Valkama (Tampere University of Technology, Finland)

BE-DCF: Barring-Enhanced Distributed Coordination Function for Machine Type Communications in IEEE 802.11 Networks

Lei Zhong (National Institute of Information and Communications Technology, Japan); Yozo Shoji (National Institute of Information and Communications Technology, Japan); Kiyohide Nakauchi (National Institute of Information and Communications Technology, Japan); Suyong Eum (NICT, Japan)

Optimal Day-ahead Pricing with Renewable Energy for Smart Grid

Te-Chuan Chiu (National Taiwan University, Taiwan); Che-Wei Pai (National Taiwan University, Taiwan); Yuan-Yao Shih (National Taiwan University, Taiwan); Ai-Chun Pang (National Taiwan University, Taiwan)

16:00 - 16:30

M2M-04: Paper Session 4 and Panel Discussion

Session Chair: Rath Vannithamby

Room: Lvl 2/Rm2

Design and Analysis for Effective Proximal Discovery in Machine-to-Machine Wireless Networks

Hung-Yun Hsieh (National Taiwan University, Taiwan); Chin-Wei Hsu (National Taiwan University, Taiwan)

Resource Allocation in D2D Communication - A Game Theoretic Approach

Bo-Yuan Huang (National Taiwan University, Taiwan); Shih-Tang Su (Department of Electrical Engineering, National Taiwan University, Taiwan); Chih-Yu Wang (National Taiwan University, Taiwan); Che-Wei Yeh (The Graduate Institute of Electrical Engineering, National Taiwan University, Taiwan); Hung-Yu Wei (National Taiwan University, Taiwan)

16:30 - 17:30

Panel Discussion on Future for M2M and IoT

Moderator: Rath Vannithamby (Intel Corporation)

Panelists:

Paul L. Russell (InterDigital)

Neeli Prasad (CTIF-USA)

Chih-Lin I (China Mobile Research Institute)

Hung-Yu Wei (National Taiwan University)

Room: Lvl 2/Rm2