

SmartCity 2015

International Workshop on Smart Cities and Urban Informatics

in conjunction with IEEE INFOCOM 2015

April 26-30, Hong Kong, China



9:00 - 10:30 **Opening and Keynote Speech**

Keynote Speaker: Prof. Victor C.M. Leung, University of British Columbia, Canada
Topic: Green Internet of Things for Smart Cities

10:30 - 11:00 AM Break

11:00 - 12:30 **Session 1: Vehicular Networks (Chair: Falko Dressler)**

1570082935 Road Condition Gathering With Vehicular DTN
Kun Xie and Wang Luo (State University of New York at Stony Brook, USA); Xin Wang (Stony Brook University, USA); Lele Wang (State University of New York at Stony Brook, USA); Jigang Wen (Chinese Academy of Science & Institute of Computing Technology, P.R. China)

1570083809 Making Cars a Main ICT Resource in Smart Cities
Onur Altintas (Toyota InfoTechnology Center, Japan);
Falko Dressler and Florian Hagenauer (University of Paderborn, Germany);
Makiko Matsumoto (Toyota InfoTechnology Center, Japan); Miguel Sepulcre (Toyota InfoTechnology Center, Japan); Christoph Sommer (University of Paderborn, Germany)

1570077361 The Impact of Secondary User Mobility and Primary User Activity on Spectrum Sensing in Cognitive Vehicular Networks
Danda B. Rawat and Tanjil Amin (Georgia Southern University, USA); Min Song (Michigan Technological University, USA)

1570074489 START: Status and Region Aware Taxi Mobility Model for Urban Vehicular Networks
Haiquan Wang, Wenjing Yang, Jingtao Zhang and Jiejie Zhao (Beihang University, P.R. China); Yu Wang (University of North Carolina at Charlotte, USA)

12:30 - 13:30 **Lunch**

13:30 - 15:30 Session 2: **Infrastructure and Applications (Chair: Xiping Hu)**

1570083761 Analysis of Solar Generation and Weather Data in Smart Grid with Simultaneous Inference of Nonlinear Time Series

Yu Wang, Guanqun Cao and Shiwen Mao (Auburn University, USA); Mark Nelms (Co-Chair, USA)

1570084073 Achieving Efficiency and Flexibility with Differentiated Random Access in Smart Home and Building Area Networks

Kazi Ashrafuzzaman and Abraham O Fapojuwu (University of Calgary, Canada)

1570078569 Green Small Cell Planning in Smart Cities under Dynamic Traffic Demand

Li Zhou (National University of Defense Technology, P.R. China); Xiping Hu (University of British Columbia, Canada); Chunsheng Zhu (University of British Columbia, Canada); Edith C.-H. Ngai (Uppsala University, Sweden); Shan Wang (University of Montreal, Canada); Jibo Wei (National University of Defense Technology, P.R. China); Victor CM Leung (University of British Columbia, Canada)

1570078593 Managing Large Scale, Ultra-Dense Beacon Deployments in Smart Campuses

Michael Wang (Princeton University, USA); Jack Brassil (HP Laboratories, USA)

1570060863 Granger-Causality-based Air Quality Estimation with Spatio-temporal (S-T) Heterogeneous Big Data

Julie Yixuan Zhu (the University of Hong Kong, Hong Kong); Chenxi Sun (The University of Hong Kong, Hong Kong); Victor O. K. Li (University of Hong Kong, P.R. China)

15:30 - 16:00 PM Break

16:00 - 17:30 Session 3: **Crowdsourcing (Chair: Edith Ngai)**

1570077787 Toward Optimal Crowdsensing Video Quality for Wearable Cameras in Smart Cities

Shu-Ting Wang, Ching-Ling Fan, Yi-Ying Huang and Cheng-Hsin Hsu (National Tsing Hua University, Taiwan)

1570078571 PM2.5 Monitoring using Images from Smartphones in Participatory Sensing

Xiaoyang Liu (Beijing University of Posts and Telecommunications, P.R. China); Zheng Song (Virginia Tech, USA); Edith C.-H. Ngai (Uppsala University, Sweden); Jian Ma and Wendong Wang (Beijing University of Posts and Telecommunications, P.R. China)

1570077001 Utilizing Internet Photos for Indoor Mapping and Localization - Opportunities and Challenges

Jiang Dong (Aalto University, Finland); Yu Xiao (Aalto University & Carnegie Mellon University, Finland); Zhonghong Ou and Antti Yla-Jaaski (Aalto University, Finland)

1570082595 Human Crowd Detection for Physical Sensing Assisted Geo-Social Multimedia Mining

Kazuhisa Fujita, Takamasa Higuchi, Akihito Hiromori, Hirozumi Yamaguchi, Teruo Higashino
and Shimojo Shinji (Osaka University, Japan)