First International Workshop on Mobile and Pervasive Internet of Things (PerIoT 2017)
(In conjunction with IEEE PerCom 2017)
March 13 (Monday), Kona, Big Island, Hawaii, USA

8:45 – 9:00   Introduction and Opening Remarks

9:00 – 10:00   Keynote Talk
Session Chair: Farzana Rahman
Keynote Talk: Pushing Down User Information to Enhance Smart Device System Design by Dr. Gang Zhou, College of William and Mary

10:00 – 10:30 Coffee Break

10:30 – 12:00 Session 1: IoT Applications
Session Chair:

1. ***Daily Living Activity Recognition with ECHONET Lite Appliances and Motion Sensors***
Kazuki Moriya (Nara Institute of Science and Technology, Japan); Eri Nakagawa (Nara Institute of Science and Technology, Japan); Manato Fujimoto (Nara Institute of Science and Technology, Japan); Hirohiko Suwa (Nara Institute of Science and Technology, Japan); Yutaka Arakawa (Nara Institute of Science and Technology & NAIST, Japan); Aki Kimura (Mitsubishi Electric Corporation, Japan); Satoko Miki (Mitsubishi Electric Corporation, Japan); Keiichi Yasumoto (Nara Institute of Science and Technology, Japan)

2. ***Characterizing Road Segments Using Compass Sensors to Predict Approaching Bus Stops***
Danila Chenchik (University of North Carolina at Chapel Hill, USA); Jia Chen (University of North Carolina at Chapel Hill, USA); Stephen Yan (University of North Carolina at Chapel Hill, USA); Shahriar Nirjon (University of North Carolina at Chapel Hill, USA)

3. ***A Wireless IoT System Towards Gait Detection in Stroke Patients***

AKM Jahangir Alam Majumder (Miami University, USA); Yosuf ElSaadany (Miami University, USA); Mohammed ElSaadany (Miami University, Oxford, Ohio, USA); Donald Ucci (Miami University, USA); Farzana Rahman (James Madison University, USA)

4. ***Context-Aware and User-Centric Residential Energy Management***
Baris Aksanli (San Diego State University, USA); Jagannathan Venkatesh (UCSD, USA); Christine Chan (University of California, San Diego, USA); Alper Sinan Akyurek (University of California - San Diego, USA); Tajana Simunic Rosing (University of California, San Diego, USA)

12:00 – 13:15 Lunch Break

13:15 – 14:45 **Session 2: Protocols and Services for IoT**
Session Chair:

1. ***Delay Tolerant Routing Protocol for Heterogeneous Marine Vehicular Mobile Ad-hoc Network***
Subhasri Duttagupta (Tata Consultancy Services, India); Maneesha Vinodini Ramesh (Amrita Vishwa Vidyapeetham, Amrita University, India); Dhanesh Raj (Amrita VishwaVidyapeetham, India)

2. ***Maximizing Coverage in Low-Power Wide-Area IoT Networks***
Alan Marchiori (Bucknell University, USA)

3. ***The Hint Protocol: Using a broadcast method to enable ID-free data transmission for dense IoT devices***
Yi Ren (National Chiao Tung University, Taiwan); Ren-Jie Wu (National Chiao Tung University, Taiwan); Yu-Chee Tseng (National Chiao-Tung University, Taiwan)

4. ***Large-scale Offloading in the Internet of Things***
Huber Flores (University of Oulu, Finland); Xiang Su (University of Oulu, Finland); Vassilis Kostakos (University of Oulu, Finland); Aaron Yi Ding (Technical University of Munich, Germany); Petteri Nurmi (Helsinki Institute for Information Technology HIIT, Finland); Sasu Tarkoma (University of Helsinki, Finland); Pan Hui (Hong Kong University of Science and Technology & Telekom Innovation Laboratories, Hong Kong); Yong Li (Tsinghua University, P.R. China)

14:45 – 15:15 **Coffee Break**

15:15 – 16:20 **Session 3: Design and Analysis of IoT Components**
Session Chair:

1. ***RoCoSys: A Framework for Coordination of Mobile IoT Devices***
Christian Krupitzer (University of Mannheim, Germany); Martin Breitbach (University of Mannheim, Germany); Johannes Saal (University of Mannheim, Germany); Christian Becker (Universität Mannheim, Germany); Michele Segata (University of Trento, Italy); Renato Lo Cigno (University of Trento, Italy)

2. ***Design and Verification of IEEE 802.11ah for IoT and M2M Applications***
Rami Akeela (Santa Clara University, USA); Yacoub Elziq (JimzuTech, USA)

3. ***Data Analysis of Transit Systems Using low-cost IoT Technology***
Samy S. El-Tawab (James Madison University, USA); Raymond Oram (James Madison University, USA); Michael Garcia (James Madison University, USA); Chris Johns (James Madison University, USA); B. Brian Park (University of Virginia, USA)

16:20 – 16:30 **Closing Remarks**