PerFoT'18: PerFoT'18 - International Workshop on Pervasive Flow of Things - Program

Welcome and Committees

Friday, March 23

9:00 - 9:10 am   Opening
9:10 - 10:00 am   Keynote Talk
10:00 - 10:30 am
10:30 - 11:45 am PerFoT-S1: Edge Computing Based Systems
11:45 am - 1:20 pm
1:20 - 3:00 pm    PerFoT-S2: Machine Learning and Stream Processing
3:00 - 3:30 pm
3:30 - 5:10 pm    PerFoT-S3: Pervasive Systems Integration

Friday, March 23

Friday, March 23 9:00 - 9:10

Opening

Friday, March 23 9:10 - 10:00

Keynote Talk

Vana Kalogeraki
Chair: Hirozumi Yamaguchi (Osaka University, Japan)

Real-Time Reliable Internet of Things

Vana Kalogeraki (Athens University of Economics and Business, Greece)

Friday, March 23 10:30 - 11:45

PerFoT-S1: Edge Computing Based Systems

Chair: Philippe Lalanda (Grenoble University, France)

Edge-centric Video Surveillance System Based on Event-driven Rate Adaptation for 24-hour Monitoring

Airi Sakaushi, Kenji Kanai and Jiro Katto (Waseda University, Japan); Toshitaka Tsuda (Waseda University & Formerly Fujitsu, Japan)

A Edge-Focused Model for Distributed Streaming Data Applications

Cody Bumgardner, Victor Marek and Caylin Hickey (University of Kentucky, USA)
Self-adaptive Resource Allocation for Continuous Task Offloading in Pervasive Computing
Sunyanan Choochothkaew, Hirozumi Yamaguchi and Teruo Higashino (Osaka University, Japan);
Dominik Schäfer and Janick Edinger (University of Mannheim, Germany); Christian Becker
(Universität Mannheim, Germany)

Friday, March 23 1:20 - 3:00

PerFoT-S2: Machine Learning and Stream Processing

Chair: Keiichi Yasumoto (Nara Institute of Science and Technology, Japan)
Development of Energy-efficient Sensor Networks by Minimizing Sensors Numbers with a
Machine Learning Model
Zhishu Shen, Kenji Yokota and Atsushi Tagami (KDDI Research, Inc., Japan); Teruo Higashino
(Osaka University, Japan)

Random Forest Based Bus Operation States Classification Using Vehicle Sensor Data
Takuya Yonezawa and Ismail Arai (Nara Institute of Science and Technology, Japan); Toyokazu
Akiyama (Kyoto Sangyo University, Japan); Kazutoshi Fujikawa (Nara Institute of Science and
Technology, Japan)

Smartphone Application Usage Prediction Using Cellular Network Traffic
Naoto Mizumura and Kizito Nkurikiyeyezu (Aoyama Gakuin University, Japan); Hiroki Ishizuka
(KDDI Research Inc, Japan); Guillaume Lopez and Yoshito Tobe (Aoyama Gakuin University,
Japan)

Implementing Personalized Web News Delivery Service Using Tales of Familiar Framework
Kentaro Noda, Yoshihiro Wada, Sachio Saiki and Masahide Nakamura (Kobe University, Japan);
Kiyoshi Yasuda (Chiba Rosai Hospital, Japan)

Friday, March 23 3:30 - 5:10

PerFoT-S3: Pervasive Systems Integration

Chair: Ismail Arai (Nara Institute of Science and Technology, Japan)

An Interoperable Notification Service for Pervasive Computing
Felix M Roth and Martin Pfannemueller (University of Mannheim, Germany); Christian Becker
(Universität Mannheim, Germany); Philippe Lalanda (Grenoble University, France)

Understanding Service Integration of Online Social Networks: A Data-Driven Study
Fei Li, Yang Chen and Rong Xie (Fudan University, P.R. China); Fehmi Ben Abdesslem and
Anders Lindgren (Swedish Institute of Computer Science, Sweden)

Activity-Tracking Service for Building Operating Systems
Jakob Hviid and Mikkel Kjaergaard (University of Southern Denmark, Denmark)

BluMoon: Bluetooth Low Energy Emulation System with Software-Implemented Controller
Tsubasa Yumura, Kunio Akashi and Tomoya Inoue (National Institute of Information and
Communications Technology, Japan)