PerCom WiP 2018: PerCom Work in Progress on Pervasive Computing and Communications, 2018 - Program

Welcome and Committees

Tuesday, March 20
4:40 - 6:40 pm WiP: Work-in-Progress Session

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WiP: Work-in-Progress Session

Chairs: Klaus David (University of Kassel, Germany), Jamie Payton (Temple University, USA)

Extracting Semantics of Indoor Places based on Context Recognition
Georgios Pipelidis (TU München, Germany); Frederik Fraaz and Christian Prehofer (Technische Universität München, Germany)

Trustworthy Sensing in an Untrusted IoT Environment
Mamadou H Diallo (53560 Hull St & SPAWAR Systems Center Pacific, USA); Nisha Panwar, Sharad Mehrotra and Ardalan Amiri Sani (University of California, Irvine, USA)

Pick Me Up and I Will Tell You Who You Are: Analyzing Pick-Up Motions to Authenticate Users
Maximilian Häring (University of Bonn, Germany); Delphine Reinhardt (University of Göttingen, Germany); Yvonne Omlor (Fraunhofer FKIE, Germany)

Accuracy of Multimodal Pedestrian Localisation in Different Terminal Contexts
Janne Riihijärvi, Xiping Deng and Petri Mähönen (RWTH Aachen University, Germany)

Preliminary Investigation of Position Independent Gesture Recognition Using Wi-Fi CSI
Kazuya Ohara and Takuya Maekawa (Osaka University, Japan); Stephan Sigg (Aalto University, Finland); Moustafa Youssef (Egypt-Japan University of Science and Technology (EJUST), Egypt)

Preliminary Investigation of Fine-grained Gesture Recognition with Signal Super-resolution
Naoya Yoshimura and Takuya Maekawa (Osaka University, Japan); Daichi Amagata (Osaka University & Department of Multimedia Engineering Graduate School of Information Science and Technology, Japan); Takahiro Hara (Osaka University, Japan)

Improving Motion-based Activity Recognition with Ego-centric Vision
Alexander Diete, Timo Szytyler, Lydia Weiland and Heiner Stuckenschmidt (University of Mannheim, Germany)
Discovery of Causal Relations in the Challenging Behaviour of People with Dementia
Kristina Yordanova, Sebastian Bader, Sarah Weschke, Frank Krüger and Judith Henf (University of Rostock, Germany); Stefan Teipel (DZNE, Germany); Thomas Kirste (University of Rostock, Germany)

Towards Comprehensible Explanations of Phenomena in Home Automation Systems
Matthäus Wander and Viktor Matkovic (University of Duisburg-Essen, Germany); Torben Weis (Universität Duisburg-Essen, Germany); Michael Bischof and Lorenz Schwittmann (University of Duisburg-Essen, Germany)

Preliminary Investigation of Detecting Events of Indoor Objects with Smartphone Active Sound Sensing
Thilina Dissanayake and Takuya Maekawa (Osaka University, Japan); Daichi Amagata (Osaka University & Department of Multimedia Engineering Graduate School of Information Science and Technology, Japan); Takahiro Hara (Osaka University, Japan)

Scripting Over-The-Air: Towards Containers on Low-end Devices in the Internet of Things
Emmanuel Baccelli (INRIA, France); Jörg Dörr (Fraunhofer-Institut für Experimentelles, Germany); Shinji Kikuchi (Fujitsu Laboratories Ltd., Japan); Francisco Acosta and Kaspar Schleiser (INRIA, France); Ian Thomas (Fujitsu, United Kingdom (Great Britain))

Representation Learning for Sensor-based Device Pairing
Le Nguyen Ngu Nguyen and Stephan Sigg (Aalto University, Finland); Ulf Kulau (Technische Universität Braunschweig, Germany)