2015 IEEE International Conference on Pervasive Computing and Communication Workshops

(PerCom Workshops 2015)

St. Louis, Missouri, USA
23-27 March 2015

CoMoRea 2015: 11th International Workshop on Context and Activity Modeling and Recognition - Program

S1: Keynote Session: Context, Big Data, and Digital Prejudices

Context, Big Data, and Digital Prejudices
Daniela Nicklas (University of Bamberg & Faculty Information Systems and Applied Computer Science, Germany)
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S2: Context-Awareness

Graph Mining Indoor Tracking Data for Social Interaction Analysis
Mani Williams, Jane Burry and Asha Rao (RMIT University, Australia)
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Knowledge-assisted Location-adaptive Technique for Indoor-Outdoor Detection in E-Learning
Sviatoslav Edelev, Sunaina N. Prasad, Hemanth Karnal and Dieter Hogrefe (University of Goettingen, Germany)
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Towards a Smarter System for Human Sensor Web
Habtom Tsega (University of Twente & ITC, The Netherlands); Rob Lemmens (University of Twente Faculty of Geo-Information Science and Earth Observation (ITC), The Netherlands); Menno-Jan Kraak (University of Twente, The Netherlands); Juma Lungo (University of Dar-es-Salaam, Tanzania)
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S3: Situation-Recognition

Evaluation of User Feedback in Smart Home for Situational Context Identification
Alaa Alhamoud and Pei Xu (Darmstadt University of Technology, Germany); Frank Englert (Technische Universität Darmstadt, Germany); Philipp Scholl (TU Darmstadt, Germany); The An Binh Nguyen, Doreen Böhnstedt and Ralf Steinmetz (Technische Universität Darmstadt, Germany)
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SAMAF: Situation Aware Mobile Apps Framework
Feichen Shen (University of Missouri - Kansas City, USA); Yugyung Lee (University of Missouri-Kansas City, USA)
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Towards Situation-Aware Adaptive Workflows
Matthias Wieland, Holger Schwarz, Uwe Breitenbücher and Frank Leymann (Universität Stuttgart, Germany)
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S4: Activity-Recognition

Advancing Android Activity Recognition Service with Markov Smoother
Mingyang Zhong and Jiahui Wen (University of Queensland, Australia); Peizhao Hu (Rochester Institute of Technology, USA); Jadwiga Indulska (The University of Queensland, Australia)
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Using Temporal Correlation and Time Series to Detect Missing Activity-Driven Sensor Events
Juan Ye and Graeme Stevenson (University of St Andrews, United Kingdom); Simon Dobson (University of St. Andrews, United Kingdom)
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IQ2S'15: The Seventh International Workshop on Information Quality and Quality of Service for Pervasive Computing, 2015 - Program

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Middleware for Pervasive and Cyber-Physical Systems: Opportunities and Challenges
Gurdip Singh (Kanas State University, USA)
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Session 2: Inference and monitoring

Protocols for Efficient Inference Communication
Carl Andersen and Prithwish Basu (Raytheon BBN Technologies, USA); Basak Guler (The Pennsylvania State University, USA); Aylin Yener (Pennsylvania State University, USA); Ebrahim MolavianJazi (Penn State University, USA)
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Smart-Cuff: A Wearable Bio-Sensing Platform with Activity-Sensitive Information Quality Assessment for Monitoring Ankle Edema
Ramin Fallahzadeh, Mahdi Pedram and Ramyar Saeedi (Washington State University, USA); Bahman Sadeghi (University of California Los Angeles, USA); Michael Ong (UCLA, USA); Hassan Ghasemzadeh (Washington State University, USA)
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Travel Time Estimation in Real-Time using Buses as Speed Probes
Dimitrios Tomaras, Ioannis Boutsis and Vana Kalogeraki (Athens University of Economics and Business, Greece)
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Quality of Information-aware Real-time Traffic Flow Analysis and Reporting
Manisha Mukherjee (Penn State University, USA); James H Edwards (Pennsylvania State University, USA); Heesung Kwon (US Army Research Laboratory, USA); Tom La Porta (Penn State University, USA)
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On Quality of Event Localization from Social Network Feeds
Prasanna Giridhar (UIUC, USA); Tarek Abdelzaher (University of Illinois, Urbana Champaign, USA); Jemin George (Army Research Laboratory, USA); Lance Kaplan (US Army Research Laboratory, USA)
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Preserving QoI in Participatory Sensing by Tackling Location-Spoofing through Mobile WiFi Hotspots
Francesco Restuccia (Missouri University of Science and Technology, USA); Andrea Saracino (Istituto di Informatica e Telematica, Italy); Sajal K. Das (Missouri University of Science and Technology, USA); Fabio Martinelli (CNR-IIT, Italy)
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MUCS'15: The 12th IEEE International Workshop on Managing Ubiquitous Communications and Services, 2015 - Program

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RTOB: a TDMA-based MAC Protocol to Achieve High Reliability of One-hop Broadcast in VANET
Fei Han, Daisuke Miyamoto and Yasushi Wakahara (University of Tokyo, Japan)
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Modified TDMA-Based MAC Protocol for Vehicular Ad Hoc Networks
Tomotaka Kawakami and Koji Kamakura (Chiba Institute of Technology, Japan)
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Improving Wireless LAN Throughput by Using Concurrent Transmissions From Multiple Access Points Based on Location of Mobile Hosts
Tatsuya Ito, Kodai Murakami and Susumu Ishihara (Shizuoka University, Japan)
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Dynamic Resource Provisioning Through Fog Micro Datacenter
Mohammad Aazam and Eui-Nam Huh (Kyung Hee University, Korea)
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A Vehicle Clustering Algorithm for Information Propagation by Inter-Vehicle Communications
Naohiro Washio (Nara Institute of Science and Technology, Japan); Satoshi Matsuura (Tokyo Institute of Technology, Japan); Masatoshi Kakiuchi, Atsuo Inomata and Kazutoshi Fujikawa (Nara Institute of Science and Technology, Japan)
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Deepak Tosh and Shamik Sengupta (University of Nevada, Reno, USA)
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S3: Managing Applications: Toolkits and Reasoning

The Mobile Hub Concept: Enabling Applications for the Internet of Mobile Things
Luis Eduardo Talavera Ríos, Markus Endler, Igor Vasconcelos, Rafael Oliveira Vasconcelos and Marcio Cunha (Pontifícia Universidade Católica do Rio de Janeiro, Brazil); Francisco Silva (Universidade Federal do Maranhão, Brazil)
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Temporal Reasoning on Twitter Streams Using Semantic Web Technologies
Meng Cui (Trinity College Dublin, Ireland); Wei Tai (SAP, Ireland); Declan O'Sullivan (Trinity College Dublin, Ireland)
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Tool Chain for Application Development with Name-Centric Services
Torsten Teubler (Lübeck University of Applied Sciences, Germany); Horst Hellbrück (University of Applied Sciences Lübeck & CoSA Center of Excellence, Germany)
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PerCol'15: The Sixth IEEE Workshop on Pervasive Collaboration and Social Networking, 2015 - Program

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[Pervasive Health Care]

Wireless Clinical Monitoring at Scale
Chenyang Lu (Washington University in St. Louis, USA)
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A Spatio-temporal Network Model to Represent and Analyze LBSNs
Bruno Moreno and Valeria C. Times (Universidade Federal de Pernambuco, Brazil); Stan Matwin (University of Ottawa, Canada)
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A Collaborative TV-Internet Application Model to Enrich TV Viewing Experience in a Pervasive Way
Carlos Ferraz (Federal University of Pernambuco & Informatics Center, Brazil); Douglas Véras (UFPE, Brazil); Jancleidsson Soares da Silva (CESAR, Brazil)
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Coordinating Movement within Swarms of UAVs through Mobile Networks
Bruno Souza (Pontifícia Universidade Católica do Rio De Janeiro & Laboratory of Advanced Collaboration, Brazil); Markus Endler (Pontifícia Universidade Católica do Rio de Janeiro, Brazil)
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S3: Participatory Sensing

DisCoPar: Distributed Components for Participatory Campaigning
Jesse Zaman and Wolfgang De Meuter (Vrije Universiteit Brussel, Belgium)
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Sarah Thiel (Telecommunications Research Centre Vienna, Austria); Ulrich Lehner, Theresa Stürmer and Janina Gospodarek (Telecommunications Research Center Vienna, Austria)
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A Design of Contract-oriented Sensor Application Platform
Takuma Oide, Toru Abe and Takuo Suganuma (Tohoku University, Japan)
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S4: Elderly Care

Social Hue: A Subtle Awareness System for Connecting the Elderly and their Caregivers
Kadian Davis, Jun Hu and Loe Feijs (Eindhoven University of Technology, The Netherlands); Evans Boateng Owusu (Independent Researcher, The Netherlands)
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PerCom Demos'15: 2015 IEEE International Conference on Pervasive Computing and Communications Demonstrations - Program

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A Proximity-Based Aerial Survivor Locator based on Connectionless Broadcast
Arata Miyamoto (Toshiba Corporation, Japan); Daniel J. Dubois (Imperial College London, United Kingdom); Yosuke Bando and Konosuke Watanabe (Toshiba Corporation, Japan); V. Michael Bove, Jr. (MIT, USA)
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A Video-Based Metropolitan Positioning System with Centimeter-Grade Localization for VANETs
Lien-Wu Chen and Yu-Fan Ho (Feng Chia University, Taiwan); Chia-Chen Chang (National Chiao Tung University, Taiwan); Yu-Chee Tseng (National Chiao-Tung University, Taiwan)
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Use the Force, Luke - Implementation of RF-based gesture interaction on an Android phone
Christoph Rauterberg (Georg-August-University of Goettingen, Germany); Stephan Sigg (National Institute of Informatics, Germany); Xiaoming Fu (University of Goettingen, Germany)
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Activity Recognition and Human Energy Expenditure Estimation with a Smartphone
Bozidara Cvetkovic, Vito Janko and Mitja Lustrek (Jozef Stefan Institute, Slovenia)
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Venkat Srinivasan (The University of Texas at Austin, USA); Tomasz Kalbarczyk and Christine Julien (University of Texas at Austin, USA)
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Demonstration of the FABER System for Fine-grained Recognition of Abnormal Behaviors
Gabriele Civitarese, Zaffar Haider Janjua, Daniele Riboni and Claudio Bettini (University of Milan, Italy)
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MoodChat: Using Context-Awareness to Connect Likeminded Co-Located Individuals
Tomas Diaz (Universidad de Chile, Chile); Christine Julien (University of Texas at Austin, USA)
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Teaching Pervasing Computing with an integrated environment
Philippe Lalanda (Grenoble University, France); Julie McCann (Imperial College London, United Kingdom); Catherine Hamon (Orange, France)
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A Microphone Sensor Based System for Green Building Applications
Md Abdullah Al Hafiz Khan and Sheung Lu (University of Maryland, Baltimore County, USA); Nirmalya Roy and Nilavra Pathak (University of Maryland Baltimore County, USA)
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Reproducible Deployment of Pervasive Applications
Ozan Gunalp (Grenoble University, France); Clément Escoffier (Grenoble University & Dynamis-Technologies, France); Philippe Lalanda (Grenoble University, France)
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Monitoring Co-Movement of Smart Objects using Accelerometer Data
Luis Eduardo Talavera Ríos and Markus Endler (Pontifícia Universidade Católica do Rio de Janeiro, Brazil); Francisco Silva (Universidade Federal do Maranhão, Brazil)
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WearableHUB: An Open Pervasive Wearable Data Fusion Platform for Personal Health Management
Yiqiang Chen (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Wen Gao (ICT, P.R. China); Shuangquan Wang and Shuai Jiao (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)

PerCom PhD Forum'15: Seventh Annual PhD Forum on Pervasive Computing and Communications, 2015 - Program

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Sougata Sen (Singapore Management University, Singapore)
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Bringing Context Awareness to IoT-Based Wireless Sensor Networks
Shashank Gaur (CISTER Research Institute & ISEP, Polytechnic Institute of Porto, Portugal)
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Enabling Resilience in the Internet of Things
Kyle E Benson (University of California, Irvine, USA)
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Extending the Lifetime of Wireless Sensor Networks from the Perspective of Sensor Scheduling and Wireless Communication
Qian Zhao (University of Hyogo, Japan)
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Protecting Users' Privacy in Healthcare Cloud Computing with APB-TTP
Raed Salih (Western Michigan University, USA)
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Proposal for Managing Sensor Selection Through The Integration of Trust for Indoor Tracking Systems
Ryan Rybarczyk (IUPUI, USA)
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A Context-Aware Ontology for Personalized Learning: Pervasive Computing for Educational Technology
Tyler Morrow (Missouri University of Science and Technology, USA)
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A Secure Isolation of Software Activities in Tiny Scale Systems
Oliver Stecklina (IHP GmbH, Germany)
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A Pervasive Framework for Real-Time Activity Patterns of Mobile Users
Feichen Shen (University of Missouri - Kansas City, USA)
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Iterative Data Analysis for Sensing Applications
Ella Peltonen (University of Helsinki, Finland)
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Towards Large-Scale Pervasive Smart Camera Networks
Jennifer Simonjan (Alpen-Adria-Universität Klagenfurt, Austria)
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CrumblR: Enabling Proxemic Services through Opportunistic Location Sharing
Geert Vanderhulst (Alcatel-Lucent Bell Labs, Belgium); Marzieh Dashti (Bell Labs, Alcatel-Lucent, Ireland); Afra Mashhadi (Bell Laboratories, Ireland); Fahim Kawsar (Bell Labs, Belgium)
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Processing Pre-Existing Connect-the-Dots Puzzles for Educational Repurposing Applications
Shelby Kilgore (North Carolina Agricultural and Technical State University, USA); Corey Graves (North Carolina A&T State University, USA)
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Extending Semantic Sensor Networks with QueryML
Keyi Zhang and Alan Marchiori (Bucknell University, USA)
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E-Mission: Automated Transportation Emission Calculation Using Smartphones
Kalyanaraman Shankari and Mogeng Yin (University of California, Berkeley, USA); David Culler and Randy H. Katz (University of California at Berkeley, USA)
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Geographical Proximity Based Target-Group Formation Algorithm for D2D Advertisement Dissemination
Junseon Kim (University of Hankyong National, Korea); Howon Lee (Hankyong National University, Korea)
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Stoppage Pattern Analysis of Public Bus GPS Traces in Developing Regions
Ratna Mandal (National Institute of Technology, Durgapur, India); Nitin Agarwal (NIT Durgapur, India); Subrata Nandi, Projan Das, Aniket Anvit and Sunandini Sanyal (National Institute of Technology, Durgapur, India); Sujoy Saha (National Institute of Technology, India)
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Challenges in Designing Testbed for Evaluating Delay-Tolerant Hybrid Networks
Partha Sarathi Paul (National Institute of Technology, Durgapur, India); Sujoy Saha (National Institute of Technology, India); Subrata Nandi (National Institute of Technology, Durgapur, India); Kingshuk De, Prithviraj Pramanik and Saikat Kumar Dey (National Institute of Technology Durgapur, India)
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Towards a Practical Indoor Location Matching System using 4G LTE PHY Layer Information
Nithyananthan Poosamani and Injong Rhee (North Carolina State University, USA)
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Managing Your Privacy in Mobile Applications with Mockingbird
Alan Ferrari, Daniele Puccinelli and Silvia Giordano (University of Applied Sciences and Arts of Southern Switzerland (SUPSI), Switzerland)
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Green Building Energy Analytics: Challenges and Opportunities
Nirmalya Roy (University of Maryland Baltimore County, USA)
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Autonomous Load Disaggregation Approach Based on Active Power Measurements
Dominik Egarter and Wilfried Elmenreich (University of Klagenfurt, Austria)
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L1-norm Minimization Based Algorithm for Non-Intrusive Load Monitoring
Xuan-Chien Le (IRISA, INRIA, University of Rennes 1, France); Baptiste Vrigneau (University of Rennes 1 & INRIA/IRISA CAIRN, France); Olivier Sentieys (University of Rennes 1, IRIA/IRISA, France)
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Contextual Insights into Home Energy Relationships
Germaine Irwin (University of Maryland Baltimore County, USA); Nilanjan Banerjee (University of Maryland, Baltimore County, USA); Amy Hurst (UMBC, USA); Sami Rollins (University of San Francisco, USA)
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Enabling Consumer Behavior Modification through Real Time Energy Pricing
Xing Yan, Dustin Wright, Sunil Kumar, Gordon Lee and Yusuf Ozturk (San Diego State University, USA)
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An Intervention Study on Automated Lighting Control to Save Energy in Open Space Offices
Luis I Lopera Gonzalez (University of Passau, Germany); Ulf Großekathöfer (Holst Centre & Imec, The Netherlands); Oliver Amft (University of Passau, Germany)
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User Interaction Event Detection in the Context of Appliance Monitoring
Antonio Ridi (University of Applied Sciences Western Switzerland Fribourg, Switzerland); Christophe Gisler (University of Applied Sciences of Western Switzerland & University of Fribourg, Switzerland); Jean Hennebert (University of Fribourg, Switzerland)
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SmartE'15: The 2nd International Workshop on Smart Environments: Closing the Loop, 2015 - Program

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Clinical Translation: Smart Technologies for Health Assessment and Intervention
Maureen Schmitter-Edgecombe (Washington State University, USA)
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Smart Homes

A Holistic Smart Home Demonstrator for Anomaly Detection and Response
Jens Lundström, Wagner Ourique de Morais and Martin Cooney (Halmstad University, Sweden)
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Smart Home Simulation using Avatar Control and Probabilistic Sampling
Jens Lundström (Halmstad University, Sweden); Jonathan Synnott (Ulster University, United Kingdom); Eric Järpe (Halmstad University, Sweden); Chris Nugent (University of Ulster, United Kingdom)
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From Lab to Life: Fine-grained Behavior Monitoring in the Elderly's Home
Daniele Riboni, Claudio Bettini, Gabriele Civitarese and Zaffar Haider Janjua (University of Milan, Italy); Viola Bulgari (Saint John of God Clinical Research Center, Brescia, Italy)
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Sensors

Non-Invasive Detection of Medication Adherence using a Digital Smart Necklace
Haik Kalantarian (University of California, Los Angeles, USA); Nabil Alshurafa (UCLA, USA); Tuan Le (University of California, Los Angeles, USA); Majid Sarrafzadeh (UCLA, USA)
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A Method for Recognizing Living Activities in Homes using Positioning Sensor and Power Meters
Kenki Ueda, Morihiko Tamai and Keiichi Yasumoto (Nara Institute of Science and Technology, Japan)
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A Concept for a C2X-based Crossroad Assistant
Daniel Burgstahler and Matthias Pelzer (Technische Universität Darmstadt, Germany); Andreas Lotz (Continental Automotive GmbH, Germany); Fabian Knapp (Technische Universität Darmstadt, Germany); Hongjun Pu (Continental Automotive GmbH, Germany); Tobias Rueckelt and Ralf Steinmetz (Technische Universität Darmstadt, Germany)
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Smart Health Vital Signs from the Smart Home
Marjorie Skubic (University of Missouri, USA)
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CASPer'15: The 2nd International Workshop on Crowd Assisted Sensing Pervasive Systems and Communications, 2015 - Program

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Refining Smartphone Usage Analysis by Combining Crowdsensing and Survey
Vassili Rivron (Inria & UCBN, France); Mohamad Irfan Khan (INRIA, France); Simon Charneau (Inria, France); Isabelle Chrisment (LORIA-TELECOM Nancy, Université de Lorraine, France)
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SmartEvacTrak: A People Counting and Coarse-Level Localization Solution for Efficient Evacuation of Large Buildings
Nasimuddin Ahmed (Tata Consultancy Service, India); Avik Ghose (Tata Consultancy Services, India); Amit Agrawal (Tata Consultancy Services Ltd., India); Chirabrata Bhaumik (Tata Consultancy Services & TCS Innovation Labs, India); Vivek Chandel and Abhinav Kumar (Tata Consultancy Services, India)
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RuPS: Rural Participatory Sensing with Rewarding Mechanisms for Crop Monitoring
Jayantrao Mohite, Yogita Karale, Prateek Gupta, Sonali Kulkarni and Bhushan Gurmukhdas Jagyasi (TCS Innovation Labs Mumbai, India); Amol Zape (Shri Shivaji College of Horticulture Amravati, India)
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Session 3: Crowdsensing Middleware

Crowd Assisted Approach for Pervasive Opportunistic Sensing
Paulo Mendes and Waldir Moreira (COPELABS, University Lusofona, Portugal)
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Session 4: Crowdsensing for Mapping and Navigation

Sound Collection and Visualization System Enabled Participatory and Opportunistic Sensing Approaches
Sunao Hara and Masanobu Abe (Okayama University, Japan); Noboru Sonehara (National Institute of Infomatics, Japan)
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A Sensing Coverage Analysis of a Route Control Method for Vehicular Crowd Sensing
Osamu Masutani (Denso IT Laboratory, Inc., Japan)
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Trustworthiness in Crowd- Sensed and Sourced Georeferenced Data
Catia Prandi, Stefano Ferretti, Silvia Mirri and Paola Salomoni (University of Bologna, Italy)
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Session 5: Panel - What are essential ingredients for a killer crowdsensing application?

PerMoby'15: The Fourth IEEE International Workshop on the Impact of Human Mobility in Pervasive Systems and Applications, 2015 - Program

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Tracking Your Every Move - Today and Tomorrow
Jakob Eriksson (University of Illinois at Chicago, USA)
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Session 2: Systems

PEMAR: A Pervasive Middleware for Activity Recognition with Smart Phones
Prakash Vaka and Feichen Shen (University of Missouri - Kansas City, USA); Mayanka Chandrashekar and Yugyung Lee (University of Missouri-Kansas City, USA)
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A Case Study on Minimum Energy Operation for Dynamic Time Warping Signal Processing in Wearable Computers
Javad Birjandtalab, Qingxue Zhang and Roozbeh Jafari (University of Texas at Dallas, USA)
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Detecting Energy Leaks in Android App with POEM
Alan Ferrari, Dario Gallucci, Daniele Puccinelli and Silvia Giordano (University of Applied Sciences and Arts of Southern Switzerland (SUPSI), Switzerland)
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Session 3: Activity Monitoring

A Novel Estimation Method of Road Condition for Pedestrian Navigation
Takumi Satoh, Akihito Hiromori, Hirozumi Yamaguchi and Teruo Higashino (Osaka University, Japan)
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Investigation of Gait Characteristics in Glaucoma Patients with a Shoe-Integrated Sensing System
Yuchao Ma (Washington State University, USA); Sharon Henry and Alex Kierlanczyk (University of California, Los Angeles, USA); Majid Sarrafzadeh (UCLA, USA); Joseph Caprioli and Kouros Nouri-Mahdavi (University of California, Los Angeles, USA); Hassan Ghasemzadeh (Washington State University, USA); Navid Amini (University of California, Los Angeles, USA)
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AgriAcT: Agricultural Activity Training using Multimedia and Wearable Sensing
Somya Sharma (Innovation Labs, Tata Consultancy Services, Mumbai, India); Bhushan Gurmukhdas Jagyasi (TCS Innovation Labs Mumbai & Indian Institute of Technology Bombay, India); Jabal Raval (TCS Innovation Labs, Tata Consultancy Services Ltd., India); Prashant Patil (VESIT & Tata Consultancy Services, India)
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Session 4: Patterns, Dynamics, and Data

Tracking Vehicle Trajectories by Local Dynamic Time Warping of Mobile Phone Signal Strengths and its Potential in Travel-time Estimation
Charith Chitraranjan (North Dakota State University & University of Moratuwa, USA); Amal Perera (University of Moratuwa, Sri Lanka); Anne M Denton (North Dakota State University, USA)
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PerNEM'15: The Fifth International Workshop on Pervasive Networks for Emergency Management, 2015 - Program

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Cloud Enabled Emergency Navigation Using Faster-than-real-time Simulation
Huibo Bi and Erol Gelenbe (Imperial College London, United Kingdom)
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Communication Coverage Awareness for Self-aligning Wireless Communication in Disaster Operations
Thomas Pfeiffenberger, Peter Dorfinger and Ferdinad von Tüllenburg (Salzburg Research Forschungsgesellschaft m. b. H., Austria)
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S2: Algorithms for Emergency Systems and Networks, II

Routing Diverse Crowds in Emergency with Dynamic Grouping
Olumide Akinwande and Huibo Bi (Imperial College London, United Kingdom)
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Towards Emergency Networks Security with Per-Flow Queue Rate Management
Maurizio Casoni, Carlo Augusto Grazia, Martin Klapez and Natale Patriciello (University of Modena and Reggio Emilia, Italy)
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Emergency Support System with Directional Extensions
Andras Kokuti (Budapest University of Technology and Economics, Hungary)
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S3: Emergency Support Systems

No Way Out: Emergency Evacuation With No Internet Access
Gokce Gorbil (Imperial College London, United Kingdom)
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RecureShare - Internet-less Application Distribution Mechanism for Internet-less Emergency Communication Systems
Seigi Matsumoto (Nara Institute of Science and Technology, Japan); Yutaka Arakawa (Nara Institute of Science and Technology & NAIST, Japan); Edgar Marko Trono and Keiichi Yasumoto (Nara Institute of Science and Technology, Japan)
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E-HAMC: Leveraging Fog Computing for Emergency Alert Service
Mohammad Aazam and Eui-Nam Huh (Kyung Hee University, Korea)
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S4: Emergency Communications and Networks

Hybrid Communication Architecture for Emergency Response - An Implementation in Firefighter's Use Case
The An Binh Nguyen, Frank Englert, Simon Farr, Christian Gottron, Doreen Böhnstedt and Ralf Steinmetz (Technische Universität Darmstadt, Germany)
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A Multimedia Delivery System for Delay-/Disruption-Tolerant Networks
Christian Raffelsberger and Hermann Hellwagner (Klagenfurt University, Austria)
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WristSense'15: Workshop on Sensing Systems and Applications Using Wrist Worn Smart Devices, 2015 - Program

KN: Keynote Talk

The "E Pluribus Unum" Agenda for Wearables
Archan Misra (Singapore Management University, Singapore)
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Recognizing Social Gestures with a Wrist-Worn SmartBand
Jonathan S Knighten, Stephen McMillan, Tori Chambers and Jamie Payton (University of North Carolina at Charlotte, USA)
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MotionAuth: Motion-based Authentication for Wrist Worn Smart Devices
Junshuang Yang, Yanyan Li and Mengjun Xie (University of Arkansas at Little Rock, USA)
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Gesture Control By Wrist Surface Electromyography
Abhishek Nagar and Xu Zhu (Samsung, USA)
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S2: UX and Systems

Design Recommendations to Improve the User Interaction with Wrist Worn Devices
Byron Lowens, Vivian Motti and Kelly Caine (Clemson University, USA)
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Power Optimization for Wearable Devices
Haik Kalantarian (University of California, Los Angeles, USA); Nabil Alshurafa, Mohammad Pourhomayoun and Majid Sarrafzadeh (UCLA, USA)
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A Remote Conversation Support System for Deaf-mute Persons based on Bimanual Gestures Recognition using Finger-worn Devices
Kengo Kuroki (University of AIZU, USA); Yiming Zhou, Zixue Cheng and Zixian Lu (University of Aizu, Japan); Yinghui Zhou (University of AIZU, USA); Lei Jing (University of Aizu, Japan)
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S3: Health and Well-being Applications

Gait, Wrist and Sensors: Detecting Freezing of Gait in Parkinson's Disease from Wrist Movement
Sinziana Mazilu (Swiss Federal Institute of Technology, Switzerland); Ulf Blanke (ETH Zürich, Switzerland); Gerhard Tröster (Wearable Computing Lab ETH Zürich, Switzerland)
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The Case for Smartwatch-based Diet Monitoring
Sougata Sen, Vigneshwaran Subbaraju, Archan Misra, Rajesh K Balan and Youngki Lee (Singapore Management University, Singapore)
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Towards Detection of Bad Habits by Fusing Smartphone and Smartwatch Sensors
Muhammad Shoaib and Stephan Bosch (University of Twente, The Netherlands); Ozlem Durmaz Incel (Galatasaray University, Turkey); Hans Scholten and Paul Havinga (University of Twente, The Netherlands)