2014 IEEE International Conference on Pervasive Computing and Communication Workshops

(PERCOM WORKSHOPS 2014)

Budapest, Hungary
24-28 March 2014

ACOMORE'14: The First Symposium on Activity and Context Modeling and Recognition, 2014 - Program

Session 1: Introduction and Opening Session

Do You Hear What I Hear? Using Acoustic Probing to Detect Smartphone Locations
Irina Diaconita (Multimedia Communications Lab, Technical University of Darmstadt, Germany); Andreas Reinhardt (The University of New South Wales, Australia); Frank Englert (TU Darmstadt, Germany); Delphine Christin (University of Bonn & Fraunhofer FKIE, Germany); Ralf Steinmetz (Technische Universität Darmstadt, Germany)
pp. 1-9

Session 2: Smart Phone Based Sensing

Self-Calibration of Walking Speed Estimations Using Smartphone Sensors
Marco Altini (Holst Centre/imec-nl, The Netherlands); Marijn van Dort (Technical University Eindhoven, The Netherlands); Ruud Vullers (imec-Netherlands, The Netherlands); Chris Van Hoof (IMEC, Belgium); Oliver Amft (University of Passau, Germany)
pp. 10-18

Personalised phone placement recognition in daily life using RFID tagging
Florian Wahl (University of Passau, Germany); Oliver Amft (University of Passau, Germany)
pp. 19-26

RingLearn: Long-term Mitigation of Disruptive Smartphone Interruptions
Jeremiah Smith (Imperial College, United Kingdom); Naranker Dulay (Imperial College London, United Kingdom)
pp. 27-35

Session 3: Gesture and Activity Recognition

Dealing with human variability in motion based, wearable activity recognition
Matthias Kreil (DFKI Kaiserslautern, Germany); Bernhard Sick (University of Kassel, Germany); Paul Lukowicz (DFKI and University of Kaiserslautern, Germany)
pp. 36-40

Session 4: Sensors and Smart Environments

Itemset-based Mining of Constraints for Enacting Smart Environments
Viktoriya Degeler (University of Groningen, The Netherlands); Alexander Lazovik (University of Groningen, The Netherlands); Francesco Leotta (Sapienza University of Rome, Italy); Massimo Mecella (SAPIENZA -- Universita' di Roma, Italy)
pp. 41-46

Motion-adaptive duty-cycling to estimate orientation using inertial sensors
Adrian Derungs (Universität Passau, Germany); Han Lin (TU/e, The Netherlands); Holger Harms (Thales, Defence and Homeland Security, Switzerland); Oliver Amft (University of Passau, Germany)
pp. 47-54

Novel Stochastic Model For Presence Detection Using Ultrasound Ranging Sensors
Luis I Lopera Gonzalez (University of Passau, Germany); Ulf Grossekathoefer (TU/e, The Netherlands); Oliver Amft (University of Passau, Germany)
pp. 55-60

Session 5: Discussion and Closing Session

In this session the presented papers in the ACOMORE symposium are discussed and the symposium is summed up and closed.

CROWDSENSING'14: The First International Workshop on Crowdsensing Methods, Techniques, and Applications, 2014 - Program

Session 1: Keynote

Participatory Urban Sensing: Challenges and Opportunities
Sajal K. Das (Missouri University of Science and Technology, USA)
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Session 2: Collecting and Analyzing Crowdsensed Data

On Efficient Meta-Data Collection for Crowdsensing
Luke Dickens (Imperial College London, United Kingdom); Emil Lupu (Imperial College, United Kingdom)
pp. 62-67

The Effectiveness of Centralised Management for Reducing Wasted Effort in Participatory Sensing
Mattias Linnap (University of Cambridge, United Kingdom); Andrew Rice (University of Cambridge, United Kingdom)
pp. 68-73

Multitiered Inference Management Architecture for Participatory Sensing
Stephen Pipes (IBM UK Ltd, United Kingdom); Supriyo Chakraborty (University of California at Los Angeles, USA)
pp. 74-79

Session 3: Supporting Creation of and Contributions to Crowdsensing Applications

EasyHarvest: Supporting the Deployment and Management of Sensing Applications on Smartphones
Manos Katsomallos (University of Thessaly, Greece); Spyros Lalis (University of Thessaly, Greece)
pp. 80-85

CrowdOut: a Mobile Crowdsourcing Service for Road Safety in Digital Cities
Elian Aubry (Universitée de Lorraine, France); Thomas Silverston (Université de Lorraine & LORIA, France); Abdelkader Lahmadi (LORIA, France); Olivier Festor (INRIA Nancy - Grand Est, France)
pp. 86-91

SPREAD, a Crowd Sensing Incentive Mechanism to Acquire Better Representative Samples
Luis G Jaimes (University of South Florida, USA); Idalides Vergara-Laurens (University of South Florida, USA); Alireza Chakeri (University of South Florida, USA)
pp. 92-97

Gamification-Based Incentive Mechanism for Participatory Sensing
Yoshitaka Ueyama (Nara Institute of Science and Technology, Japan); Morihiko Tamai (Nara Institute of Science and Technology, Japan); Yutaka Arakawa (Nara Institute of Science and Technology & NAIST, Japan); Keiichi Yasumoto (Nara Institute of Science and Technology, Japan)
pp. 98-103

Session 4: Panel: Crowdsensing: A Silver Bullet or a Naked Gun?

PerCity'14: The First International Workshop on Pervasive Systems for Smart Cities, 2014 - Program

Session 1: Keynote

Energy, Technologies and Cities
Manuel Serrano (ETRA I+D, Spain)
pg. 104

Session 2: Smart City Applications

Smart Building Management through Augmented Reality
Larissa Suzuki (Department of Computer Science, University College London & Digital City Exchange, Imperial College Business School, United Kingdom); Kevin Brown (IBM UK Ltd, United Kingdom); Stephen Pipes (IBM UK Ltd, United Kingdom); John B Ibbotson (IBM United Kingdom Ltd, United Kingdom)
pp. 105-110

Enabling Reliable and Secure IoT-based Smart City Applications
Elias Z. Tragos (Institute of Computer Science, FORTH, Greece); Vangelis Angelakis (Linköping University, Sweden); Alexandros Fragkiadakis (Institute of Computer Science, FORTH, Greece); David Gundlegård (Linköping University, Sweden); Septimiu Nechifor (Siemens SRL, Romania); George Oikonomou (University of Bristol, United Kingdom); Henrich Pöhls (University of Passau, Germany); Anastasius Gavras (Eurescom GmbH, Germany)
pp. 111-116

Session 3: Smart City Systems

The GAMBAS Middleware and SDK
Wolfgang Apolinarski (University of Duisburg-Essen, Germany); Umer Iqbal (Universität Duisburg-Essen Germany, Germany); Josiane Parreira (DERI, Ireland)
pp. 117-122

A lightweight Linked Data implementation for modeling the Web of Things
Stefano Turchi (CNIT & University of Florence, Italy); Federica Paganelli (National Inter-University Consortium for Telecommunications & Research Unit of Firenze, c/o Dept. of Electromics and Telecommunications, Italy); Lorenzo Bianchi (University of Florence, Italy); Dino Giuli (CNIT - University of Firenxe, Italy)
pp. 123-128

Towards WSN-aided Navigation for Vehicles in Smart Cities: An Application Case Study
Roudy Dagher (Inria Lille - Nord Europe & Etineo Company, France); Nathalie Mitton (Inria Lille - Nord Europe, France); Ibrahim Amadou (INRIA Lille - Nord Europe, France)
pp. 129-134

Session 4: General Discussion Round

Pervasive Computing for Smart Cities - Past, Present and Future

PerCom Demos'14: 2014 IEEE International Conference on Pervasive Computing and Communications Demonstrations - Program

Demos

GaitAssist: A Wearable Assistant for Gait Training and Rehabilitation in Parkinson's Disease
Sinziana Mazilu (Swiss Federal Institute of Technology, Switzerland); Michael Hardegger (ETH Zurich, Switzerland); Ulf Blanke (ETH Zürich, Switzerland); Gerhard Tröster (Wearable Computing Lab ETH Zürich, Switzerland); Eran Gazit (Tel Aviv University & Tel Aviv Sourasky Medical Center, Israel); Moran Dorfman (Tel Aviv Sourasky Medical Center, Israel); Jeffrey Hausdorff (Harward Medical School, USA)
pp. 135-137

The Mobile Manufacturing Dashboard
Christoph Gröger (University of Stuttgart, Germany); Christoph Stach (University of Stuttgart, Germany)
pp. 138-140

Participatory Sensing Based Real-time Public Transport Information Service
Karoly Farkas (Budapest University of Technology and Economics, Hungary); Adam Nagy (Budapest University of Technology and Economics, Hungary); Timon Tomás (Budapest University of Technology and Economics, Hungary); Robert Szabo (Budapest University of Technology and Economics, Hungary)
pp. 141-144

RAReFall - Real-time Activity Recognition and Fall Detection System
Hristijan Gjoreski (Jozef Stefan Institute, Slovenia); Simon Kozina (Jozef Stefan Institute, Slovenia); Matjaž Gams (Jozef Stefan Institute, Slovenia); Mitja Lustrek (Jozef Stefan Institute, Slovenia)
pp. 145-147

Code Offloading on Opportunistic Computing
Alan Ferrari (SUPSI, Switzerland); Daniele Puccinelli (University of Applied Sciences of Southern Switzerland, Switzerland); Silvia Giordano (University of Applied Sciences and Arts of Southern Switzerland (SUPSI), Switzerland)
pp. 148-150

Proximity-based reminders using Bluetooth
Håkan Jonsson (University of Lund & Sony Mobile Communications AB, Sweden); Pierre Nugues (Lund University, Sweden); Alex Tavella (Venturus, Brazil); Izabela Amaral (Venturus, Brazil); Marina Tachibana (Venturus, Sweden); Vinicius Santos (Venturus, Brazil)
pp. 151-153

Demo Abstract: A Testbed Infrastructure to Study the Impact of Temperature on WSN
Carlo Alberto Boano (Graz University of Technology, Austria); Kay Römer (Graz University of Technology, Austria); James Brown (Lancaster University, United Kingdom); Utz Roedig (Lancaster University, United Kingdom); Marco Zuniga (Delft University of Technology, The Netherlands)
pp. 154-156

Demo: MadApp: Dynamic Content Support for Delay-Tolerant Web Applications
Venkat Srinivasan (The University of Texas at Austin, USA); Christine Julien (The University of Texas at Austin, USA)
pp. 157-159

Resilient Tree-based Live Streaming for Mobile Scenarios
Giang Nguyen (TU Darmstadt, Germany); Benjamin Schiller (TU Darmstadt, Germany); Thorsten Strufe (TU Dresden, Germany)
pp. 160-162

User-friendly Configuration of Smart Environments
Simon Mayer (ETH Zürich, Switzerland); Nadine Inhelder (ETH Zurich, Switzerland); Ruben Verborgh (Ghent University – iMinds, Belgium); Rik Van de Walle (Ghent University - IBBT, Belgium)

PerCom PhD Forum'14: Seventh Annual PhD Forum on Pervasive Computing and Communications, 2014 - Program

Welcome and Committees

PhDposter: Poster presentation of PhD forum

A Lightweight and Low-Power Activity Recognition System for Mini-Wearable Devices
Lisha Hu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)
pp. 166-167

Bayesian Nonparametric Extraction of Hidden Contexts from Pervasive Honest Signals
Thuong C. Nguyen (Deakin University, Australia)
pp. 168-170

Fast-Converging Indoor Mapping for Wireless Indoor Localization
Zulfazli Hussin (University of Hyogo, Japan)
pp. 171-173

Participatory Sensing Based Optimization of Environmental Parameters Using the Example of Energy Saving in Residential Environments
Frank Englert (TU Darmstadt, Germany)
pp. 174-175

Design Method for Developing a Mobile Engineering-Application Middleware (MEAM)
Eva Hoos (University of Stuttgart, Germany)
pp. 176-177

Social Pervasive Systems: The Harmonization Between Social Networking and Pervasive Systems
Soumaia A. Al Ayyat (The American University in Cairo, Egypt)
pp. 178-180

Physically Informed Assertions for Cyber Physical Systems Development and Debugging
Xi Zheng (University of Texas at Austin & Cockrell, USA)
pp. 181-183

Mobile Collaborative Cloudless Computing
Nuno Cruz (Instituto Politecnico de Lisboa & Universidade de Lisboa, Portugal)
pp. 184-186

PerCom WiP'14: 2014 IEEE International Conference on Pervasive Computing and Communications Work in Progress - Program

PerMoby'14: The Third IEEE International Workshop on the Impact of Human Mobility in Pervasive Systems and Applications, 2014 - Program

Session 1: Keynote

Long-Term Monitoring of Human Mobility on Smartphones
Petteri Nurmi (Helsinki Institute for Information Technology HIIT, Finland)
pg. 236

Session 2: Usage patterns and social networking

Re-identification of Anonymized CDR datasets Using Social Network Data
Alket Cecaj (Università di Modena e Reggio Emilia, Italy); Marco Mamei (Università di Modena e Reggio Emilia, Italy); Nicola Bicocchi (University of Modena and Reggio Emilia, Italy)
pp. 237-242

Community Detection in Opportunistic Networks using Memory-based Cognitive Heuristics
Matteo Mordacchini (IIT, CNR, Pisa, Italy); Andrea Passarella (IIT-CNR, Italy); Marco Conti (IIT-CNR, Italy)
pp. 243-248

The evolution of user mobility on the eduroam network
Nuno Cruz (Instituto Politecnico de Lisboa & Universidade de Lisboa, Portugal); Hugo Miranda (Universidade de Lisboa, Portugal); Pedro Ribeiro (ISEL-IPL, Portugal)
pp. 249-253

Session 3: Understanding Human Mobility

Impact of Location History Collection Schemes on Observed Human Mobility Features
Alicia Rodriguez-Carrion (University Carlos III of Madrid & Missouri University of Science & Technology, USA); Sajal K. Das (Missouri University of Science and Technology, USA); Celeste Campo (University Carlos III of Madrid, Spain); Carlos Garcia-Rubio (University Carlos III of Madrid, Spain)
pp. 254-259

On the key features in human mobility: relevance, time and distance
Matteo Zignani (University of Milano, Italy); Michela Papandrea (University of Applied Sciences of Southern Switzerland Switzerland (SUPSI), Switzerland); Sabrina Gaito (Università degli Studi di Milano, Italy); Silvia Giordano (University of Applied Sciences and Arts of Southern Switzerland (SUPSI), Switzerland); Gian Paolo Rossi (University of Milan, Italy)
pp. 260-265

Navigating MazeMap: indoor human mobility, spatio-logical ties and future potential
Gergely Biczók (Norwegian University of Science and Technology, Norway); Santiago Diez Martinez (NTNU, Norway); Thomas Jelle (Norwegian University of Science and Technology, Norway); John Krogstie (Norwegian University of Science and Technology, Norway)
pp. 266-271

Session 4: Data in Pervasive Mobility

Analyzing the quality of crowd sensed WiFi data
Carlos M Pérez-Penichet (University of Minho, Portugal); Adriano Moreira (University of Minho & Centro Algoritmi, Portugal)
pp. 272-277

PerNEM'14: The Fourth International Workshop on Pervasive Networks for Emergency Management, 2014 - Program

Session 1: Keynote

ChaosFIRE: An experiment with Chaoster, the context-aware collaboration platform for crisis/chaos management
Laszlo Kovacs (MTA SZTAKI, Institute for Computer Science and Control of the Hungarian Academy of Sciences, Hungary); Balazs Pataki (MTA SZTAKI, Institute for Computer Science and Control of the Hungarian Academy of Sciences, Hungary)
pg. 284

Session 2: Emergency Communication Systems

Publish-Subscribe Smartphone Sensing Platform for the Acute Phase of a Disaster: A Framework for Emergency Management Support
Jaziar Radianti (Center for Integrated Emergency Management (CIEM) University of Agder, Norway); Jose J Gonzalez (Center for Integrated Emergency Management (CIEM) University of Agder, Norway); Ole-Christoffer Granmo (University of Agder, Norway)
pp. 285-290

Routing Diverse Evacuees with Cognitive Packets
Huibo Bi (Imperial College London, United Kingdom); Erol Gelenbe (Imperial College London, United Kingdom)
pp. 291-296

Quake Detection System Using Smartphone-Based Wireless Sensor Network For Early Warning
Ana Zambrano (Universitat Politècnica de València, Spain); Israel Pérez (Universidad Politécnica de Valencia, Spain); Carlos E Palau (Universidad Politecnica Valencia, Spain); Manuel Esteve (Universidad Politecnica Valencia, Spain)
pp. 297-302

Session 3: Algorithms and Models for Emergency Networks

Qualifying Explore and Exploit for Efficient Data Dissemination in Emergency Adhoc Networks
Panayiotis Kolios (University of Cyprus, Cyprus); Andreas Pitsillides (University of Cyprus, Cyprus); Osnat (Ossi) Mokryn (Tel Aviv Yaffo Academic College, Israel); Katerina Papadaki (London School of Economics, United Kingdom)
pp. 303-307

Resource Delivery Path Dependent Deployment Scheduling for Contingency Cellular Network
Yao-Nan Lien (National Chengchi University, Taiwan); Tsai-I Kao (National Chengchi University, Taiwan); Jyh-Shyan Huang (National Chengchi University, Taiwan)
pp. 308-313

Near-Optimal Emergency Evacuation
Erol Gelenbe (Imperial College London, United Kingdom); Qing Han (Imperial College, United Kingdom)
pp. 314-319

Session 4: Emergency Management Systems

On-body multi-input indoor localization for dynamic emergency scenarios: fusion of magnetic tracking and optical character recognition with mixed-reality display
Jason Orlosky (Osaka University, USA); Takumi Toyama (German Research Center for Artificial Intelligence, Germany); András Sárkány (Eötvös Loránd University, Hungary); Andras Lorincz (Eötvös Loránd University, Hungary); Daniel Sonntag (DFKI Germany, Germany)

SIPC'14: The Third IEEE International Workshop on Social Implications of Pervasive Computing, 2014 - Program

Workshop Welcome

Session 1: Keynote

Pervasive Computing for Sustaining Cultural Heritage
Zsófia Ruttkay (Creative Technology Lab, Hungary)
pg. 344

Session 2: World Cafe

Session 3: Healthy Living

Pervasive Stress Recognition for Sustainable Living
Andrey Bogomolov (University of Trento & Telecom Italia Semantic and Knowledge Innovation Lab, Italy); Bruno Lepri (FBK-Irst, Italy); Michela Ferron (FBK, Italy); Fabio Pianesi (FBK, Italy); Alex Pentland (MIT, USA)
pp. 345-350

Ethics of E-Coaching: Implications of Employing Pervasive Computing to Promote Healthy and Sustainable Lifestyles
Joel Anderson (Utrecht University, The Netherlands); Bart Kamphorst (Utrecht University, The Netherlands)
pp. 351-356

Session 4: Adaptive Spaces

Pervasive Connectivity: The Thriving Hotel of the Future
Howard A Hecht (IndustryLabs, Canada); Mahemuti Mayier (Johnson & Wales University, USA); Christine Perakslis (Johnson & Wales University, USA)
pp. 357-363

Using Adaptive Architecture to Support Yoga Practices: Social Considerations for Design
Nils Jäger (University of Nottingham & University Of Nottingham, United Kingdom); Stuart Moran (University of Nottingham, United Kingdom); Holger Martin Schnädelbach (University of Nottingham, United Kingdom)
pp. 364-369

Session 5: Collecting and Sharing Data

Social Networks and Ubiquitous Monitoring: An Application of the PSA-BI Model
Stuart Moran (University of Nottingham, United Kingdom)
pp. 370-375

Field Testing a Rare Species Bioacoustic Smartphone Application: Challenges and Future Considerations
Nadia Pantidi (University of Nottingham, United Kingdom); Stuart Moran (University of Nottingham, United Kingdom); Khaled Bachour (University of Nottingham, United Kingdom); Tom Rodden (University of Nottingham, United Kingdom); Davide Zilli (University of Southampton, United Kingdom); Geoff V Merrett (University of Southampton, United Kingdom); Alex Rogers (University of Southampton, United Kingdom)
pp. 376-381

Session 6: Communities and Choice

Can we reduce waste and waist together through EUPHORIA?
Veranika Lim (Eindhoven University of Technology, The Netherlands); Fulya Yalvaç (Eindhoven University of Technology, The Netherlands); Mathias Funk (Eindhoven University of Technology, The Netherlands); Jun Hu (Eindhoven University of Technology, The Netherlands); Matthias Rauterberg (Eindhoven University of Technology, The Netherlands)
pp. 382-387

The Value of Consent: discussions with designers of ubiquitous computing systems
Ewa Luger (University of Nottingham, United Kingdom); Tom Rodden (University of Nottingham, United Kingdom)
pp. 388-393

IQ2S'14: The Sixth International Workshop on Information Quality and Quality of Service for Pervasive Computing, 2014 - Program

Session 1: Keynote

Community Sense-and-Response Systems: Your Phone as Seismometer
Andreas Krause (ETH Zurich, Switzerland)
pg. 394

Session 2: Exploiting and Analyzing Social Networks

ClariSense: Clarifying Sensor Anomalies using Social Network Feeds
Prasanna Giridhar (UIUC, USA); Md Tanvir A Amin (University of Illinois at Urbana-Champaign, USA); Tarek Abdelzaher (University of Illinois, Urbana Champaign, USA); Lance Kaplan (US Army Research Laboratory, USA); Jemin George (Army Research Laboratory, USA); Raghu Ganti (IBM T J Watson Research Center, USA)
pp. 395-400

Impact of Socially Based Demand on the Efficiency of Caching Strategy
Buster Holzbauer (Rensselaer Polytechnic Institute, USA); Boleslaw K Szymanski (Rensselaer Polytechnic Institute, USA); Eyuphan Bulut (Cisco Systems, USA)
pp. 401-406

A BSP Approach to Composite Network Analysis
Mudhakar Srivatsa (IBM T.J. Watson Research Center, USA); Raghu Ganti (IBM T J Watson Research Center, USA); Steven A. Borbash (US Government, USA); Dakshi Agrawal (IBM Research, USA)
pp. 407-412

Session 3: On QoS and QoE

Developing a QoS-based Tasklet Trading System
Janick Edinger (University of Mannheim, Germany); Sebastian VanSyckel (University of Mannheim, Germany); Christian Krupitzer (University of Mannheim, Germany); Justin Mazzola Paluska (MIT, USA); Christian Becker (Universität Mannheim, Germany)
pp. 413-418

On the Limited Potential of Buffers to Improve Quality of Experience
Markus Fiedler (Blekinge Institute of Technology, Sweden)
pp. 419-424

Mobile Quality of Experience: Recent Advances and Challenges
Vasilios A. Siris (Athens University of Economics and Business / ICS-FORTH, Greece); Konstantinos Balampekos (Nokia Solutions and Networks, Greece); Mahesh K Marina (The University of Edinburgh, United Kingdom)
pp. 425-430

Session 4: Semantics and Quality

Semantic Index Assignment
Basak Guler (The Pennsylvania State University, USA); Aylin Yener (Pennsylvania State University, USA)
pp. 431-436

Enriching sensor data processing with quality semantics
Christian Michael Kuka (Carl von Ossietzky Universitaet Oldenburg, Germany); Daniela Nicklas (University of Bamberg & Faculty Information Systems and Applied Computer Science, Germany)

MUCS'14: The Eleventh EEE International Workshop on Managing Ubiquitous Communications and Services, 2014 - Program

Session 1: Keynote

Software Defined Systems for Management of Ubiquitous Communications and Services - How and What to Virtualize and Programme

The ossification of Telecom Networks and Computing Clouds is creating several difficulties for Service Providers and Network and/or Cloud Operators to develop and deploy, flexibly, any innovative network, services and management functionalities, which are essential to benefit from the increasing dynamicity of the ICT markets. Operating the networks & clouds and launching new services are still time-consuming and requires expensive efforts: this is preventing any rapid roll-out of new businesses models and opportunities.

Virtualisation and programmability of systems are becoming cost effective and if properly designed, deployed and integrated, could help in fulfilling the above mentioned ossification requirements including the enablement of greater flexibility in services/applications management/provisioning, the realization of a deeper integration of networks and cloud domains, and the agility in related system operations.

This talk will first review the state of the art in virtualisation and programmability including Application Programming Interfaces, Programmable Networks, Software Defined Networks (SDN), Network Functions Virtualization (NFV), Software Defined Data Centres, Mobile Cloud Computing (MCC) environments, Dynamic Service Chaining.

Then a review and a description of a list of the most important technical and architectural challenges for the development and deployment of future networks and services will be given where such system would need to move from being merely defined by software to be programmable by software.

Software Defined Systems for Management of Ubiquitous Communications and Services - How and What to Virtualise and Programme
Alex Galis (University College London, United Kingdom)

Session 2: Applications

Semantics-Empowered Middleware Implementation for Home Ecosystem Gateway
Jasvinder Singh (Nimbus Centre for Embedded System Research & Cork Institute of Technology, Ireland); Navid Hassanzadeh (Cork Institute of Technology, Ireland); Susan Rea (Cork Institute of Technology, Ireland); Dirk Pesch (Cork Institute of Technology, Ireland)
pp. 449-454

Sensor Knowledge Representation with SpatioTemporal Annotation: An Energy Sensor Ontology Use Case
Sounak Dey (TCS, India); Ranjan Dasgupta (Tata Consultancy Services Ltd, India)
pp. 455-459

A Semantic Workflow Engine Powered by Grid Reasoning
Sam Coppens (Ghent University - iMinds, Belgium); Ruben Verborgh (Ghent University – iMinds, Belgium); Erik Mannens (Ghent University, Belgium); Rik Van de Walle (Ghent University - IBBT, Belgium)
pp. 460-465

Session 3: Context-based Systems

Multi-User Context Inference Based on Neural Networks
Ioannis Papaioannou (National Technical University of Athens, Greece); Nick Kalatzis (National Technical University of Athens, Greece); Ioanna Roussaki (National Technical University of Athens, Greece); Nicolas Liampotis (National Technical University of Athens, Greece); Pavlos Kosmides (National Technical University of Athens, Greece)
pp. 466-471

Context-aware Heterogeneous Network Performance Analysis: Test-bed Development
Zhenhui Yuan (Dublin City University, Ireland); John Keeney (LM Ericsson, Ireland); Sven van der Meer (Ericsson LM, Ireland); Gabriel Hogan (Dublin City University, Ireland); Gabriel-Miro Muntean (Dublin City University, Ireland)
pp. 472-477

Session 4: Social Networks

Trustworthy Service Discovery for Mobile Social Network in Proximity
Chii Chang (University of Tartu, Estonia); Satish N Srirama (University of Tartu, Estonia); Sea Ling (Monash University, Australia)
pp. 478-483

Personalizing System Behaviour in a Pervasive Social Networking System
Elizabeth Papadopoulou (Heriot-Watt University, United Kingdom); Sarah Gallacher (University College London, United Kingdom); Nick K Taylor (Heriot-Watt University, United Kingdom); Howard Williams (Heriot-Watt University, United Kingdom)
pp. 484-488

Session 5: Panel

PD-Apps'14: The First Workshop on Developing Applications for Pervasive Display Networks, 2014 - Program

Welcome from the organizers

Session 1: Paper presentations

Social Object Labels
Marcus Winter (University of Brighton, United Kingdom)
pp. 489-494

Integrating Interactive Applications with Digital Signage: Towards a Scheduling Framework for Pervasive Displays
Ivan Elhart (University of Lugano (USI), Switzerland); Marc Langheinrich (University of Lugano (USI), Switzerland); Nemanja Memarovic (University of Lugano (USI), Switzerland)
pp. 495-499

Understanding the Use of Web Technologies for Applications in Open Display Networks
Constantin Taivan (University of Minho & Centro Algoritmi, Portugal); Rui Jose (University of Minho, Portugal); Bruno Silva (Universidade do Minho, Portugal)
pp. 500-505

Session 2: Paper presentations (continued)

MoCHA: Augmenting Pervasive Displays through Mobile Devices and Web-based Technologies
Elena Oat (Aalto University, Finland); Mario Di Francesco (Aalto University & University of Texas at Arlington, Finland); Tuomas Aura (Aalto University, Finland)
pp. 506-511

UbiBroker: Event-based Communication Architecture for Pervasive Display Networks
Tommi Heikkinen (University of Oulu, Finland); Petri Luojus (University of Oulu, Finland); Timo Ojala (University of Oulu, Finland)
pp. 512-518

UniDisplay - A Research Prototype to Investigate Expectations Towards Public Display Applications
Florian Alt (University of Munich, Germany); Nemanja Memarovic (University of Lugano (USI), Switzerland); Miriam Greis (University of Stuttgart, Germany); Niels Henze (University of Stuttgart, Germany)
pp. 519-524

Light-Keypad, Interaction through Coated Double Glazing
Lei Ye (University of Nottingham, United Kingdom); Holger Martin Schnädelbach (University of Nottingham, United Kingdom); Steve North (University of Nottingham, United Kingdom)
pp. 525-530

Session 3: Identification of potential applications to be designed/developed

Participants will jointly decide which application(s) will be designed at the workshop.

Session 4: Application design in group

Session 5: Application design in group (continued)

Session 6: Plenary session: Discussion, consolidation, action plan

PerCol'14: The Fifth IEEE Workshop on Pervasive Collaboration and Social Networking, 2014 - Program

Session 1: Keynote

Virtual co-location: As if being there?
Stephan G. Lukosch (Delft University of Technology, The Netherlands)
pg. 531

Session 2: Social Networks and Crowdsensing

WiFi Authentication through Social Networks - a Decentralized and Context-aware Approach
Yunus Durmus (Delft University of Technology, The Netherlands); Koen Langendoen (Delft University of Technology, The Netherlands)
pp. 532-538

Distributed protocols for Ego Betweenness Centrality computation in DOSNs
Barbara Guidi (University of Pisa, Italy); Marco Conti (IIT-CNR, Italy); Andrea Passarella (IIT-CNR, Italy); Laura Ricci (University of Pisa, Italy)
pp. 539-544

FlySensing: A Case for Crowdsensing in the Air
Osarieme Omokaro (The University of North Carolina at Charlotte, USA); Jamie Payton (University of North Carolina at Charlotte, USA)
pp. 545-550

Session 3: Pervasive Social Networks

Towards Efficient Group Management and Communication for Large-Scale Mobile Applications
Rafael Oliveira Vasconcelos (PUC-Rio, Brazil); Lincoln David (PUC-Rio, Brazil); Markus Endler (PUC-Rio, Brazil)
pp. 551-556

Direct Migrator: eliminating borders between Personal Mobile Devices and Pervasive Displays
Huiliang Jin (Ecole Centrale de Lyon, France); Tao Xu (Ecole Centrale de Lyon, France); Bertrand David (Ecole Centrale de Lyon & LIRIS Lab, France); René Chalon (Ecole Centrale de Lyon, France)
pp. 557-562

SCI'14: The Second IEEE International Workshop on Social and Community Intelligence, 2014 - Program

Session 1: Welcome from the organizers

Session 2: Social and Community Intelligence

Supervised-Learning Link Recommendation in the DBLP co-authoring network
Jose Rodrigues, Jr (University of Sao Paulo & ICMC-USP, Brazil); Gabriel Gimenes (University of Sao Paulo, Brazil); Hugo Gualdron (University of Sao Paulo, Brazil); Thiago R Raddo (University of Sao Paulo, Brazil)
pp. 563-568

The Quest for User Similarity in Mobile Societies
Mai ElSherief (University of California, Santa Barbara & Faculty of Engineering, Cairo University, USA); Tamer ElBatt (Faculty of Engineering, Cairo University & WINC, Nile University, Egypt); Ahmed H. Zahran (Nile University, Egypt); Ahmed Helmy (University of Florida, USA)
pp. 569-574

Visualization of Wireless Sensor Networks using Zigbee's Received Signal Strength Indicator (RSSI) for Indoor Localization and Tracking
Flora D Salim (RMIT University, Australia); Mani Williams (RMIT University, Australia); Nishant Sony (RMIT University, Australia); Mars Pena (RMIT University, Australia); Yury Petrov (RMIT University, Australia); Abdelsalam Saad (RMIT University, Australia); Bo Wu (RMIT University, Australia)
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