



IEEE PerCom 2011 Program

Conference Registration

Foyer, 2nd Floor

Registration is located in the foyer on the second floor. Opening hours are:

Monday, March 21: from 7:30am to 4:30pm

Tuesday, March 22: from 7:30am to 4:00pm

Wednesday, March 23: from 8:00am to 4:00pm

Thursday, March 24: from 8:00am to 3:00pm

Friday, March 25: from 8:30am to 11:00am

Major sponsors:

Microsoft



IBM Research

Other sponsors: **QUALCOMM**

Monday, March 21st, Pre-conference Workshops

Morning coffee break: 10:00am-10:30am Foyer, 3rd Floor
Afternoon coffee break: 3:00pm-3:30pm Foyer, 3rd Floor
Lunch: 12:00pm-1:30pm South Room

PERWARE 2011: The Eighth IEEE International Workshop on Middleware and System Support for Pervasive Computing Program

Location: North Room

Session 1 - Middleware Again

- 9:00am - 10:00am Chair: **Gregor A. Schiele** (University of Mannheim, Germany)
- PW1. "The Changing Role of Pervasive Middleware: from Discovery and Orchestration to Recommendation and Planning." Gabriella Castelli; Marco Mamei; Franco Zambonelli (University of Modena and Reggio Emilia, Italy)
- PW2. "Context as a Service - Requirements, Design and Middleware Support," Michael Wagner; Roland Reichle; Kurt Geihs (University of Kassel, Germany)

Session 2 – The Network is the Problem, Not the Solution

- 10:30am - 12:00pm Chair: **Gregor A. Schiele** (University of Mannheim, Germany)
- PW3. "Programming Language Support for Routing in Pervasive Networks," Tomohiro Suzuki (The University of Tokyo, Japan); Kevin Pintz; Tom Van Cutsem; Wolfgang De Meuter (Vrije Univ. Brussel, Belgium); Akinori Yonezawa (The Univ. of Tokyo, Japan)
- PW4. "InterX: A Service Interoperability Gateway for Heterogeneous Smart Objects," Hyunho Park; Byoungoh Kim; Yangwoo Ko; Dongman Lee (KAIST, Korea)
- PW5. "Selection and Publication of Network Interface Cards in Multihomed Pervasive Computing Devices," Alberto Cortés-Martín; Carlos Garcia-Rubio; Celeste Campo; Estrella Garcia-Lozano; Alicia Rodriguez-Carrion (Univ. Carlos III of Madrid, Spain)

Session 3 – Borrowing from Other Fields

- 1:30pm - 3:00pm Chair: **Gregor A. Schiele** (University of Mannheim, Germany)
- PW6. "Embracing the Cloud for Better Cyber Security," Craig Aaron Shue (Oak Ridge National Laboratory, USA); Brent Lagesse (Oak Ridge National Laboratory, USA)
- PW7. "Distributed Context-Aware Visualization," Harald Sanftmann; Nazario Cipriani; Daniel Weiskopf (Universität Stuttgart, Germany)

Session 4 – Open Panel Discussion

- 3:30pm - 5:00pm "Open Panel Discussion"
Moderator: Justin Mazzola Paluska (MIT, USA)

SESOC 2011: The Third International Workshop on Security and Social Networking

Location: Seneca Room

Opening Remarks

9:00am - 9:15am Chairs: **Melek Önen** (EURECOM, France)
Thorsten Strufe (Technical Univ. of Darmstadt, Germany)

Keynote Speech

9:15am - 10:00am
SSK. "Anonymous Communications in the Social Networking Era,"
by **David Molnar** (Microsoft Research)

Session 1 – Trust and Privacy within Social Networking

- 10:30am - 12:00pm Chair: Manuel Egele (UCSB, USA)
- SS1. "Privacy Settings from Contextual Attributes: A Case Study Using Google Buzz," Daisuke Mashima (Georgia Institute of Technology, USA); Elaine Shi; Richard Chow (PARC, USA); Prateek Sarkar (PARC (Currently Google), USA); Chris Li (Vmware Inc., USA); Dawn Xiaodong Song (University of California at Berkeley, USA)
- SS2. "Incorporating Evidence into Trust Propagation Models Using Markov Random Fields," Hasari Tosun; John W. Sheppard (Montana State University, USA)
- SS3. "Analyzing the Incentives in Community-based Security Systems," Pern Hui Chia (Norwegian University of Science and Technology, Norway)

Session 2 – Securing Online Social Networking

- 1:30pm - 3:00pm Chair: **Jason Polakis** (FORTH, Greece)
- SS4. "Classification of Commercial and Personal Profiles on MySpace," Bill Gauvin; Cindy Chen; Xinwen Fu; Benyuan Liu (University of Massachusetts Lowell, USA)
- SS5. "Inference Attacks by Third-Party Extensions to Social Network Systems," Seyed Hossein Ahmadijad (University of Calgary, Canada); Mohd Anwar (University of Pittsburgh, USA); Philip Fong (University of Calgary, Canada)

Session 3 – Securing Online Social Networking (continued)

- 3:30pm - 4:30 pm Chair: **Leucio-Antonio Cutillo** (EURECOM, France)
- SS6. "PoX: Protecting Users from Malicious Facebook Applications," Manuel Egele; Christopher Kruegel (Univ. of California, Santa Barbara, USA); Andreas Moser (Vienna Univ. of Technology, Austria); Engin Kirda (Institute Eurecom, France)
- SS7. "Detecting Social Network Profile Cloning," Georgios Kontaxis; Iasonas Polakis; Sotiris Ioannidis; Evangelos Markatos (Found. for Research and Tech. - Hellas, Greece)

Closing Remarks

4:30pm - 5:00 pm Closing remarks by **Melek Önen** (EURECOM, France) and
Thorsten Strufe (Technical University of Darmstadt, Germany)

PerCoSC 2011: The First IEEE PerCom Workshop on Pervasive Communities and Service Clouds

Location: James Room

Session 1 – Mobile Cloud Computing

9:00am - 10:00am Chair: **Yiwei Cao** (RWTH Aachen University, Germany)

- PR1. “**Adaptation of Archetype Patterns for Mobile Cloud-based Business Apps.**” Sebastian Damm; Thomas Ritz; Jakob Strauch (FH Aachen, Germany)
- PR2. “**Mobile Search and the Cloud: The Benefits of Offloading.**” Eemil Lagerspetz; Sasu Tarkoma (University of Helsinki, Finland)

Session 2 – Overview of Service Clouds

10:30am - 12:00pm Chair: **Mads G. Christensen** (Aalborg University, Denmark)

- PR3. “**Ubiquitous Cloud: Managing Service Resources for Adaptive Ubiquitous Computing.**” Koichi Egami; Matsumoto Shinsuke; Masahide Nakamura (Kobe University, Japan)
- PR4. “**Cloud Computing Oriented Network Operating System and Service Platform.**” Jianwei Yin (Zhejiang University, P.R. China); Yanming Ye (Zhejiang University, P.R. China); Bin Wu (Zhejiang University, P.R. China); Zuoning Chen (National Parallel Computing Engineering Research Center, P.R. China)
- PR5. “**Challenges in Securing the Interface Between the Cloud and Pervasive Systems.**” Brent Lagesse (Oak Ridge National Laboratory, USA)

Session 3 – Pervasive Community Services and Applications

1:30pm - 3:00 pm Chair: **Dejan Kovachev** (RWTH Aachen University, Germany)

- PR6. “**Home Automation and Security for Mobile Devices.**” Somak R Das (MIT, USA); Silvia Chita (Washington State University, USA); Nina Peterson (Lewis-Clark State College, USA); Behrooz Shirazi (Washington State University, USA); Medha Bhadkamkar (New Mexico Consortium, USA)
- PR7. “**Improving Pervasive Positioning through Three-tier Cyber Foraging.**” Mads D Kristensen; Mikkel Baun Kjergaard; Thomas Toftkjær (Aarhus University, Denmark); Sourav Bhattacharya; Petteri Nurmi (Helsinki Institute for Information Technology HIIT, Finland)
- PR7. “**Contemporary Ubiquitous Media Services: Content Recommendation and Adaptation.**” Wenyuan Yin; Xinglei Zhu; Chang Wen Chen (State University of New York at Buffalo, USA)

Wrap-up

3:30pm - 4:30 pm Closing remarks by: **Yiwei Cao** (RWTH Aachen Univ., Germany), **Dejan Kovachev** (RWTH Aachen University, Germany)

IQ2S 2011: The Third International Workshop on Information Quality and Quality of Service for Pervasive Computing

Location: West Room

Opening Remarks

8:45am - 9:00am by **Sajal K. Das** (NSF & The University of Texas at Arlington, USA)

Session 1 – Keynote Speech

9:00am - 10:00am “**Information Assurance in Sensor Networks.**” by **Prof. Zygmunt Haas** (NSF & Cornell University, USA)

Session 2 – QoI and Resource Adaptation

10:30am - 12:00pm Chair: **Chatschik Bisdikian** (IBM T. J. Watson Research, USA)

- IQ1. “**Quality-of-Information Aware Networking for Tactical Military Networks.**” Amotz Bar-Noy (CUNY, New York, USA); Greg Cirincione (US Army Research Lab., USA); Ramesh Govindan; Michael J. Neely (Univ. of Southern Calif., USA); Srikanth V. Krishnamurthy (Univ. of Calif., Riverside, USA); Tom La Porta; Aylin Yener (Penn State Univ., USA); Prasant Mohapatra (Univ. of Calif., Davis, USA)
- IQ2. “**QoI-Aware Energy Management for Wireless Sensor Networks.**” Chi Harold Liu (IBM Research, China); Pan Hui (Deutsche Telekom Labs, Germany); Joel W. Branch (IBM T. J. Watson Research, USA); Bo Yang (IBM Research, China)
- IQ3. “**Fidelity-based Continuous Query Interception and Adaptation.**” Christine Julien; Vasanth Rajamani (The Univ. of Texas at Austin, USA); Jamie Payton (Univ. of North Carolina at Charlotte, USA); Gruia-Catalin Roman (Washington Univ. in St. Louis, USA)

Session 3 – QoI Enhancing Techniques

1:30pm - 3:00pm Chair: **Archan Misra** (Singapore Management University)

- IQ4. “**Market Mechanisms for Value of Information Driven Resource Allocation in Sensor Networks.**” Boleslaw K Szymanski; Syed Yousaf Shah; Sahin Geyik; Sanmay Das; Meenal Chhabra (Rensselaer Polyt. Inst., USA); Petros Zerfos (IBM T.J. Watson Rsrch. Cntr., USA)
- IQ5. “**Video Entity Resolution: Applying ER Techniques for Smart Video Surveillance.**” Ronen Vaisenberg; Sharad Mehrotra (Univ. of Calif., Irvine, USA)
- IQ6. “**Exploiting Human State Information to Improve GPS Sampling.**” Athanasios Bamis; Andreas Savvides (Yale University, USA)

Session 4 – Information Privacy and Anonymity

3:30pm - 4:30pm Chair: **Zygmunt J. Haas** (NSF & Cornell University, USA)

- IQ7. “**Demystifying Privacy in Sensory Data: A QoI-based Approach.**” Mani B. Srivastava (University of California, Los Angeles, USA)
- IQ8. “**The Quality of Source Location Protection in Globally Attacked Sensor Networks.**” Silvija Kokalj-Filipovic (Alcatel-Lucent, Bell Labs, USA); Fabrice Le Fessant (INRIA Saclay, France); Predrag Spasojevic (Rutgers University, USA)

Closing Remarks

4:30pm - 5:00pm by **Chatschik Bisdikian** (IBM T. J. Watson Research, USA)

PerSeNS 2011: The Seventh IEEE International Workshop on Sensor Networks and Systems for Pervasive Computing Program

Location: East Room

Opening Remarks

8:45am - 9:00am by Alessio Vecchio (University of Pisa, Italy)

Session 1 – Keynote Address

9:00am - 10:00am “From Context Aware Smart Environments to Socially Interactive Computing,” by Paul Lukowicz (Univ. of Passau, Germany)

Session 2 – Robust Protocols and Fault Tolerance

10:30am - 12:00am Chair: Daniele Puccinelli (SUSPI, Switzerland)

- PS1. “Detecting Faulty Wireless Sensor Nodes through Stochastic Classification,” Alfonso Farruggia; Giuseppe Lo Re; Marco Ortolani (University of Palermo, Italy)
- PS2. “Detecting Anomalies to Improve Classification Performance in Opportunistic Sensor Networks,” Hesam Sagha; Ricardo Chavarriaga (EPFL, Switzerland); José del R. Millán (IDIAP Research Institute, Switzerland)
- PS3. “Principles of Genomic Robustness Inspire Fault-Tolerant WSN Topologies: a Network Science Based Case Study,” Preetam Ghosh; Vijender Chaitankar (University of Southern Mississippi, USA); Michael Mayo; Tanwir Habib; Edward Perkins (ERDC, US Army, USA); Sajal K. Das (Univ. of Texas, Arlington, USA)
- PS4. “A Gossip-based Energy Efficient Protocol for Robust In-network Aggregation in Wireless Sensor Networks,” Shantanu Fauji; Konstantinos Kalpakis (University of Maryland Baltimore County, USA)

Session 3 – Communication, Security and Context

1:30pm - 3:00pm Chair: Preetam Ghosh (University of Southern Mississippi, USA)

- PS5. “Lightweight Remote Procedure Calls for Wireless Sensor and Actuator Networks,” Andreas Reinhardt; Parag S. Mogre; Ralf Steinmetz (Techn. Univ. Darmstadt, Germany)
- PS6. “Privacy Preservation Schemes for Querying Wireless Sensor Networks,” Tassos Dimitriou (Athens Info. Tech., Greece); Ahmad Sabouri (Carnegie Mellon University, USA)
- PS6B. “Secure cooperative MIMO communications under active compromised nodes,” Liang Hong; McKenzie McNeal; Wei Chen (Tennessee State Univ., USA)
- PS7. “A Multi-modular Approach for Design and Evaluation of Context Information Interactive Systems,” Jian Liang; Kevin O’ Mahony; Maryna Lishchynska; Kieran Delaney (Cork Institute of Technology, Ireland)

Session 4 – Applications and Experimental Studies

3:30pm - 5:00 pm Chair: Alessio Vecchio (University of Pisa, Italy)

- PS8. “Radio-Based Trail Usage Monitoring with Low-End Motes,” Daniele Puccinelli; Anna Förster; Alessandro Puiatti; Silvia Giordano (SUPSI, Switzerland)
- PS9. “Sensor Node Lifetime: An Experimental Study,” Hoang Anh Nguyen; Anna Förster; Daniele Puccinelli; Silvia Giordano (SUPSI, Switzerland)
- PS10. “On Recovery of Lost Targets in a Cluster-based Wireless Sensor Network,” Anshu Khare; Krishna M. Sivalingam (Indian Institute of Techn. Madras, India)

MUCS 2011: The Eighth IEEE International Workshop on Managing Ubiquitous Communications and Services

Location: Marion Room

Opening Remarks

8:15am - 8:30am Chair: Sven van der Meer (Waterford Inst. of Technology, Ireland)

Session 1 – Managing Contexts

8:30am - 10:00am Chair: Burkhard Stiller (Univ. of Zürich & ETH Zürich, Switzerland)

- MU1. “The SimCon Generator: An Interactive Context Simulator for Rapid Evaluation of Smart Building Applications Using Virtual Reality,” Kris K McGlinn; Rob Brennan; Declan O’Sullivan; Dave Lewis (Trinity College Dublin, Ireland)
- MU2. “Intelligent Information Dissemination in Collaborative, Context-Aware Environments,” Korbinian Frank (German Aerospace Cntr., Germany); Matthias Röckl (In2Soft, Germany); Tom Pfeifer (Waterford Inst. of Tech., TSSG, Ireland)
- MU3. “Hunting or Waiting? Discovering Passenger-Finding Strategies From a Large-scale Real-world Taxi Dataset,” Bin Li; Daqing Zhang; Lin Sun (Institut Télécom SudParis, France); Chao Chen (Northwestern Polytechnical. Univ., China); Shijian Li; Guande Qi (Zhejiang Univ., China); Qiang Yang (Hong Kong Univ. of Sci. and Tech.)
- MU4. “ProMWS: Proactive Mobile Web Service Provision Using Context-Awareness,” Chi Chang; Sea Ling; Shonali Krishnaswamy (Monash University, Australia)

Keynote Speech

10:30am - 12:00pm “What To Do With 100 Million GPS Points,”
by John Krumm (Microsoft Research)

Session 2 – Managing Behavior and Special Services

1:30pm - 3:00pm Chair: Kris K. McGlinn (Trinity College Dublin, Ireland)

- MU5. “Always Best Served: On the Behaviour of QoS- and QoE-based Algorithms for Web Service Adaptation,” Apostolos Papageorgiou; Andre Miede; Dieter Schuller; Stefan Schulte; Ralf Steinmetz (Technische Univ. Darmstadt, Germany)
- MU6. “Declarative XML-based Layout State Encoding for Managing Screen Real Estate of Interactive Public Displays,” Tommi Heikkinen; Tomas Lindén; Marko Jurmu; Hannu Kukka; Timo Ojala (University of Oulu, Finland)
- MU7. “Ranges of Human Mobility in Los Angeles and New York,” Sibren Isaacman (Princeton Univ., USA); Richard Becker; Ramón Cáceres (AT&T Labs, USA); Stephen Kobourov (Univ. of Arizona, USA); Margaret Martonosi (Princeton Univ., USA); James Rowland; Alexander Varshavsky (AT&T Labs, USA)
- MU8. “User-Centric Service Selection, Integration and Management Through Daily Events,” Zhenzhen Zhao (Institut Télécom, Télécom SudParis, France); Nassim Laga (University of Paris, France); Noel Crespi (Institut Télécom, Télécom SudParis, France)

Workshop Interaction – The Interrupted Session

3:30pm - 5:00pm Chair: Sven van der Meer (Waterford Institute of Technology, Ireland)

Tuesday, March 22nd, PerCom Day-1

Opening Remarks

Madison Ballroom

8:30am - 8:45am by IEEE PerCom 2011 Officers

Keynote Lecture

Madison Ballroom

8:45am - 10:00am "A Nervous System for Humanity: Making Health, Financial, Logistics, and Transportation Networks Work"
by Alex "Sandy" Pentland (MIT, USA)
moderated by: Silvia Giordano (SUPSI, Switzerland)

Coffee/Tea Break

2nd Floor Foyer

10:00am - 10:30am Coffee/Tea break

Session 1 – Context Modeling

Madison Ballroom

10:30am - 11:50am Chair: Daniela Nicklas (Carl von Ossietzky Univ. Oldenburg, Grmny.)
1A1. "Recognizing Interleaved and Concurrent Activities: A Statistical-Relational Approach." Rim Helaoui; Mathias Niepert; Heiner Stuckenschmidt (University of Mannheim, Germany)
1A2. "Hybrid Context Inconsistency Resolution for Context-Aware Services." Chenhua Chen (Saarland University, Germany); Chunyang Ye (Institute of Software, Chinese Academy of Sciences, China); Hans-Arno Jacobsen (University of Toronto, Canada)
1A3. "Interpretation of Inconsistencies via Context Consistency Diagrams." (concise contribution) Viktoriya Degler; Alexander Lazovik (University of Groningen, The Netherlands)

Lunch

Courtyard Ballroom

12:00pm - 1:30pm Lunch at the conference venue

Session 2 – Pervasive Healthcare Applications

Madison Ballr.

1:30pm - 3:00pm Chair: Gregor A. Schiele (University of Mannheim, Germany)
2A1. "Feasibility Study of a Wearable Carbon Monoxide Warning System for Construction Workers." Jason Forsyth; Thomas L. Martin; Deborah Young-Corbett; Ed Dorsa (Virginia Tech, USA)
2A2. "On-body Device Localization for Health and Medical Monitoring Applications." Alireza Vahdatpour; Navid Amini; Majid Sarrafzadeh (UCLA, USA)
2A3. "Phase Recognition during Surgical Procedures using Embedded and Body-worn Sensors." Jakob E. Bardram; Afsaneh Doryab; Rune M. Jensen; Poul M. Lange; Kristian L. G. Nielsen; Soeron T. Petersen (IT University of Copenhagen, Denmark)

Coffee/Tea Break

2nd Floor Foyer

3:00pm - 3:30pm Coffee/Tea break

Demo and Work-in-Progress "Teaser Madness"

Madison Ballr.

3:30pm - 4:00pm Demo/WiP teasers Moderators:
Daniela Nicklas (Carl von Ossietzky Univ. Oldenburg, Germany)
WenZhan Song (Georgia State University, USA)
Ankur Teredesai (University of Washington, USA)
Bodhi Priyantha (Microsoft Research, USA)

Demo Session (parallel)

Courtyard Ballroom

4:00pm - 6:00pm Chairs: Ankur Teredesai (University of Washington, USA)
Bodhi Priyantha (Microsoft Research, USA)
D1. "CASASviz: Web-based Visualization of Behavior Patterns in Smart Environments." Chao Chen (Washington State University, USA); Prafulla Dawadi (Washington State University, USA)
D2. "A Demonstration of PyViz, a Flexible Smart Home Visualization Tool." Brian Thomas (Washington State University, USA)
D3. "A Pervasive Dietary Data Recording System." Eric Johnson (University of Washington Tacoma, USA); Ankur Teredesai (University of Washington, USA)
D4. "Using context-profiling to aid access control decisions in mobile devices." Aditi Gupta (Purdue University, USA); Markus J Miettinen (Nokia, Switzerland); N. Asokan (Nokia Research Center, Finland)
D5. "Towards the future smart products systems design." Ilkka Niskanen (VTT, Finland)
D6. "Using Spatial Augmented Reality for Appliance Design." G Stewart Von Itzstein (University of South Australia, Australia); Bruce Thomas (University of South Australia - Wearable Computer Lab, Australia); Ross Smith (University of South Australia - Wearable Computer Lab, Australia); Sandy Walker (University of South Australia - School of Art, Architecture and Design, Australia)
D7. "A ubiquitous activity-monitor to prevent sedentariness." Josue Iglesias (Universidad Politecnica de Madrid, Spain)
D8. "PocketSocial: Your Distributed Social Context Now in Your Pocket." Bo Xing (Ericsson, USA); Kristoffer Gronowski (Ericsson, USA); Nimish Radia (Ericsson, Finland); Martin Svensson (Ericsson, Finland); Andrew Ton (Ericsson, USA)
D9. "An Augmented Reality Based Group Communication System for Bikers Using Smart Phones." Lien-Wu Chen (National Chiao Tung University, Taiwan); Yu-Hao Peng (National Chiao-Tung University, Taiwan); Yu-Chee Tseng (National Chiao-Tung University, Taiwan)

Work-in-Progress Poster Session (parallel) *Courtyard Ballr.*

- 4:00pm - 6:00pm Chairs: **Daniela Nicklas** (Carl von Ossietzky Univ. Oldenburg, Germany)
WenZhan Song (Georgia State University, USA)
- W1. "Towards Preserving Privacy in Participatory Sensing," Leyla Kazemi; Cyrus Shahabi (University of Southern California, USA)
- W2. "Implementing Powerful Web Services for Highly Resource-Constrained Devices," Christian Lerche; Nico Laum; Guido Moritz; Elmar Zeeb; Frank Golasowski; Dirk Timmermann (University of Rostock, Germany)
- W3. "Towards Opportunistic Sensed Data Dissemination in Vehicular Environments," Ramon Schwartz; Hylke van Dijk; Hans Scholten (University of Twente, The Netherlands)
- W4. "Cortina: Collaborative Context-aware Indoor Positioning Employing RSS and RTof Techniques," Zheng Sun (Carnegie Mellon University, USA); Richard Farley; Telis Kaleas; Judy Ellis; Kiran Chikkappa (Qualcomm, Inc., USA)
- W5. "P-Sense: A Participatory Sensing System for Air Pollution Monitoring and Control," Diego Mendez; Alfredo J Perez; Miguel A. Labrador (University of South Florida, USA); Juan José Marrón (Universidad de Oviedo, Spain)
- W6. "Exploiting Context For Automatic Check-in Suggestion And Validation," Massimo Valla; Cristina Frà (Telecom Italia, Italy)
- W7. "Saving time, money and the environment - vHike a dynamic ride-sharing service for mobile devices," Christoph Stach (University of Stuttgart, Germany)
- W8. "A Self-Powered Adaptive Wireless Sensor Network for Wastewater Treatment Plants," Yu Chen; Christopher Twigg; Omowunmi Sadik (SUNY - Binghamton, USA); Shiqiong Tong (Pennoni Associates Inc, USA)
- W9. "Imirok: Real-Time Imitative Robotic Arm Control for Home Robot Applications," Heng-Tze Cheng; Zheng Sun; Pei Zhang (Carnegie Mellon University, USA)
- W10. "Using Prediction to Conserve Energy in Recognition on Mobile Devices," Dawud Gordon (Karlsruhe Institute of Technology, Germany); Stephan Sigg (TU Braunschweig, Germany); Yong Ding; Michael Beigl (Karlsruhe Institute of Technology, Germany)
- W11. "Bio-Inspired Monitoring of Pervasive Environments," Apostolos Malatras; Fei Peng; Béat Hirsbrunner (University of Fribourg, Switzerland)
- W12. "A Wireless Sensor System for Motion Analysis of Parkinson's Disease Patients," Geoffrey Lo (University of British Columbia, Canada); Ashwinram Suresh (IIT Madras, India); Leo Stocco; Sergio Gonzalez-Valenzuela; Victor CM Leung (The University of British Columbia, Canada)
- W13. "Hard to Access the Information in the Healthcare System? I See! - An Innovative Touch-screen Information Board for Pediatric Hospitals," Rung-Yu Tseng; Kevin Chuang; Kristin Hermann; Jon Koehler; Ellen Yi-Luen Do (Georgia Institute of Technology, USA)
- W14. "Distributed Object Tracking with Robot and Disjoint Camera Networks," Junbin Liu (Queensland University of Technology, Australia); Tim Wark (CSIRO, Australia); Steven Martin; Peter I. Corke (Queensland University of Technology, Australia); Matthew J.A. D'Souza (CSIRO ICT Centre, Australia)
- W15. "Measuring Social Functions of City Regions from Large-scale Taxi Behaviors," Guande Qi (Zhejiang University, P.R. China); Xiaolong Li; Shijian Li; Gang Pan; Zonghui Wang (Zhejiang University, P.R. China); Daqing Zhang (Institut Télécom, Télécom SudParis, France)

Reception (parallel to Demo/WIP) (parallel) *Courtyard Ballr.*

4:00pm - 6:00pm Reception with drinks and hors d'oeuvre

Birds of a Feather: NSF Initiatives Related to Pervasive Computing***Madison Ballroom***

6:00pm - 7:00pm Chair: **Sajal K. Das** (National Science Foundation, USA)
Speakers: **Diane Cook** (Washington State University, USA)
Anita La Salle (National Science Foundation, USA)
Richard Voyles (National Science Foundation, USA)



Wednesday, March 23rd, PerCom Day-2

Keynote Lecture

Madison Ballroom

8:45am - 10:00am **"Keeping it Personal,"**
by **Derek McAuley** (University of Nottingham)
moderated by: Jie Liu (Microsoft Research, USA)

Coffee/Tea Break

2nd Floor Foyer

10:00am - 10:30am Coffee/Tea break

Session 3: Best papers

Madison Ballroom

- 10:30am - 12:00pm Chair: **Jadwiga Indulska** (University of Queensland, Australia)
- 3A1. **"Jyotish: A Novel Framework for Constructing Predictive Model of People Movement from Joint Wifi/Bluetooth Trace."** Long Vu; Quang Do; Klara Nahrstedt (University of Illinois at Urbana-Champaign, USA)
- 3A2. **"An Energy-Efficient Quality Adaptive Framework for Multi-Modal Sensor Context Recognition."** Nirmalya Roy (Institute for Infocomm Research, Singapore); Archan Misra (Singapore Management University, Singapore); Christine Julien (The University of Texas at Austin, USA); Sajal K. Das (The University of Texas at Arlington, USA); Jit Biswas (Institute for Infocomm Research, Singapore)
- 3A3. **"uDirect: A Novel Approach for Pervasive Observation of User Direction with Mobile Phones."** Seyed Amir Hoseinitabatabaei; Alexander Gluhak; Rahim Tafazolli (The University of Surrey, UK)

Lunch

Courtyard Ballroom

12:00pm - 1:30pm Lunch

Session 4 – Privacy and Security

Madison Ballroom

- 1:30pm - 3:00pm Chair: **Claudio Bettini** (University of Milan, Italy)
- 4A1. **"Reclaiming Privacy for Smartphone Applications,"** Emiliano De Cristofaro (University of California, Irvine, USA); Anthony Durussel; Imad Aad (Nokia Research Center, Switzerland)
- 4A2. **"P3-Coupon: a Probabilistic System for Prompt and Privacy-preserving Electronic Coupon Distribution,"** Boying Zhang; Jin Teng (The Ohio State University, USA); Xiaole Bai (University of Massachusetts Dartmouth, USA); Zhimin Yang; Dong Xuan (The Ohio State University, USA)
- 4A3. **"AnonPri: An Efficient Anonymous Private Authentication Protocol,"** Md. Endadul Hoque (Purdue University, USA); Farzana Rahman; Sheikh Ahamed (Marquette University, USA)

Coffee/Tea Break

2nd Floor Foyer

3:00pm - 3:30pm Coffee/Tea break

Ph.D. Forum "Teaser Madness"

Madison Ballroom

3:30pm - 3:45pm Moderator: **Christine Julien** (The University of Texas at Austin, USA)

Ph.D. Forum Posters

Courtyard Ballroom

- 3:45pm - 5:45pm Chair: **Christine Julien** (The University of Texas at Austin, USA)
- P1. **"Risk Assessment for Better Identity Management in Pervasive Environments,"** Patricia Arias (Universidad Carlos III de Madrid, Spain)
- P2. **"Reduce Latency: The Key to Successful Interactive Remote Rendering Systems,"** Shu Shi (University of Illinois at Urbana-Champaign, USA)
- P3. **"So Smart - Modeling Social Contexts to Improve Smart Objects Awareness in Pervasive Computing Environments,"** Giulia Biamino (Univ. of Torino, Italy)
- P4. **"Optimizing Resource Use in Multi-Purpose WSNs,"** Pedro Javier del Cid (Katholieke Universiteit Leuven, Belgium)
- P5. **"Efficient Collaboration in Opportunistic Networks,"** Umair Sadiq (The University of Texas at Arlington, USA)
- P6. **"A Loss Minimization in Adapter Chaining for Mobile Ubiquitous Computing Environments,"** Byoungoh Kim (KAIST, Korea)
- P7. **"COAL: Context Aware Localization for High Energy Efficiency in Wireless Networks,"** Yanliang Liu (The University of Texas at Arlington, USA)
- P8. **"Channel Assignment and Routing in Multiradio Wireless Mesh Networks using Smart Ants,"** Fawaz Bokhari (The University of Texas Arlington, USA)
- P9. **"Task-Involved Versus Ego-Involved: Motivating Children to Exercise In a Pervasive Exergame,"** Andrew Peter Macvean (Heriot-Watt University, United Kingdom)
- P10. **"TRIAGE: Applying Context to Improve Timely Delivery of Critical Data in Mobile Ad Hoc Networks for Disaster Response,"** Faisal Luqman (Carnegie Mellon Silicon Valley, USA)

Conference Banquet

Seattle Space Needle

6:30pm - 9:15pm Conference Banquet and presentation of conference awards
The banquet will take place at the "Seattle Space Needle", a major landmark of the Pacific Northwest and a symbol for Seattle. More information and tickets for the monorail will be provided at the conference.



Thursday, March 24th, PerCom Day-3

Session 5 – Opportunistic Networking and Sensing *Madison Blr.*

- 8:30am - 10:00am Chair: **Cecilia Mascolo** (University of Cambridge, UK)
- 5A1. “**Mobile Node Rostering in Intermittently Connected Passive RFID Networks.**” Zhipeng Yang; Hongyi Wu (Univ. of Louisiana at Lafayette, USA)
- 5A2. “**RegRES: Adaptively Maintaining a Target Density of Regional Services in Opportunistic Vehicular Networks.**” (concise contribution) Emmanouil Koukoumidis; Li-Shiuan Peh; Margaret Martonosi (Princeton University, USA)
- 5A3. “**Participatory Sensing Algorithms for Mobile Object Discovery in Urban Areas.**” (concise contribution) Harald Weinschrott; Julian Weisser; Frank Dürri; Kurt Rothermel (University of Stuttgart, Germany)
- 5A4. “**Floating Content: Information Sharing in Urban Areas.**” Joerg Ott; Esa Hyttä (Aalto Univ., Finland.); Pasi Lassila (Helsinki Univ. of Tech., Finland.); Tobias Vaegs (RWTH Aachen Univ., Germany.); Jussi Kangasharju (Univ. of Helsinki, Finland.)

Coffee/Tea Break

10:00am - 10:30am Coffee/Tea break

2nd Floor Foyer

Panel Session

- 10:30am - 12:00pm Panel: “**Pervasive and Social Computing: Where Are We Heading?**”
- Moderator: **Sajal K. Das** (National Science Foundation, USA)
- Panelists: **Sujata Banerjee** (HP Labs, USA)
Mads Haahr (Trinity College of Dublin, Ireland)
Eric Horvitz (Microsoft Research, USA)
David McDonald (Univ. of Washington, USA),
George Roussos (Birkbeck College, Univ. of London, UK)

Madison Ballroom

Lunch

12:00pm - 1:30pm Lunch at the conference venue

Courtyard Ballroom

Session 6A – Software Design and Performance (parallel) *Salon A*

- 1:30pm - 3:00pm Chair: **Christian Becker** (Universität Mannheim, Germany)
- 6A1. “**Motion Fault Detection and Isolation in Body Sensor Networks.**” Duk-Jin Kim; Balakrishnan Prabhakaran (The University of Texas at Dallas, USA)
- 6A2. “**Using AI Planning and Late Binding for Managing Service Workflows in Intelligent Environments.**” (concise contribution) Julien Bidot (Univ. of Ulm, Germany); Christos Goumopoulos; Ioannis Calemis (Cmp. Tech. Institute, Greece)
- 6A3. “**Adaptive Client Side Object Replication for Response Time Improvement in Pervasive Environments.**” (concise contribution) Norizam Katmon; Caspar Ryan (RMIT University, Australia)
- 6A4. “**Model-Driven Engineering of Planning and Optimisation Algorithms for Pervasive Computing Environments.**” Anthony Harrington; Vinny Cahill (Trinity College Dublin, Ireland)

Session 6B – Positioning and Privacy (parallel)

Salon B-C

- 1:30pm - 3:00pm Chair: **Brent Lagesse** (Oak Ridge National Laboratory, USA)
- 6B1. “**Vibrate-to-Unlock: Mobile Phone Assisted User Authentication to Multiple Personal RFID Tags.**” (concise contribution) Nitesh Saxena; Md. Borhan Uddin; Jonathan Voris (Polytechnic Institute of New York University, USA); N. Asokan (Nokia Research Center, Finland)
- 6B2. “**Position Sharing for Location Privacy in Non-trusted Systems.**” (concise contribution) Frank Dürri; Pavel Skvortsov; Kurt Rothermel (University of Stuttgart, Germany)
- 6B3. “**RASS: A Real-time, Accurate and Scalable System for Tracking Transceiver-free Objects.**” (concise contribution) Dian Zhang (Hong Kong University of Science and Technology, Hong Kong); Yunhua Liu (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, P.R. China); Lionel Ni (HKUST, Hong Kong)
- 6B4. “**An Efficient Localization Algorithm Focusing on Stop-and-Go Behavior of Mobile Nodes.**” (concise contribution) Takama Higuchi; Sae Fujii; Hirozumi Yamaguchi; Teruo Higashino (Osaka University, Japan)

Coffee/Tea Break

3:00pm - 3:30pm Coffee/Tea break

2nd Floor Foyer

Session 7 – Positioning and Tracking Technologies *Madison Blr.*

- 3:30pm - 5:00pm Chair: **Klara Nahrstedt** (Univ. of Illinois at Urbana-Champaign, USA)
- 7A1. “**Tracking Vehicular Speed Variations by Warping Mobile Phone Signal Strengths.**” Gayathri Chandrasekaran; Tam Vu (Rutgers University, USA); Alexander Varshavsky (AT&T Labs, USA); Marco Gruteser; Richard Martin (Rutgers University, USA); Jie Yang; Yingying Chen (Stevens Institute of Technology, USA)
- 7A2. “**A Robust Dead-Reckoning Pedestrian Tracking System with Low Cost Sensors.**” Yunye Jin; Hong-Song Toh; Wee-Seng Soh; Wai-Chong Wong (National University of Singapore)
- 7A3. “**Bidirectional Pose Estimation.**” Jarmo Kauko (Nokia Research Center, Finland)

PerCom 2011 Town Hall Meeting

- 5:00pm - 6:00pm Chair: **Marco Conti** (PerCom Steering Committee Chair)
- All attendees are welcome! The IEEE PerCom Steering Committee Chair will lead a discussion on current and future directions of the conference. Attendees are asked to provide suggestions and feedback.

Madison Ballroom

Friday, March 25th, Post-conference Workshops

Morning coffee break: 10:00am-10:30am Foyer, 3rd Floor
Afternoon coffee break: 3:00pm-3:30pm Foyer, 3rd Floor
Lunch: 12:00pm-1:30pm South Room

SmartE 2011: The First Workshop on Smart Environments to Enhance Health Care

Location: North Room

Session 1 – Smart Environments for Health Care – 1

- 8:30am - 10:00am Chair: **George Demiris** (University of Washington, USA)
- SE1. “**Web-based Real-time Monitoring for Pervasive Healthcare,**” Bingchuan Yuan; John Herbert (University College Cork, Ireland)
 - SE2. “**Pervasive Safety Application with Model Checking in Smart Houses: the INOVUS Intelligent Oven,**” Thibault de Champs; Mohammed Ouenzar; Bessam Abdulrazak; Marc Frappier; H  l  ne Pigot; Beno  t Fraikin (Universit   de Sherbrooke, Canada)
 - SE3. “**Personal Gateway in Mobile Health Monitoring,**” Sungwon Yang; Mario Gerla (University of California at Los Angeles, USA)

Session 2 – Smart Environments for Health Care – 2

- 10:30am - 12:00pm Chair: **Marjorie Skubic** (University of Missouri, USA)
- SE4. “**Using Passive Sensing to Estimate Relative Energy Expenditure for Eldercare Monitoring,**” Shuang Wang; Marjorie Skubic; Yingnan Zhu; Colleen Galambos (University of Missouri - Columbia, USA)
 - SE5. “**Towards Long-Term Mobility Tracking in NTU Hospital's Elder Care Center,**” Chun-Chieh Hsiao (Lunghwa University of Science and Technology, Taiwan); Yi-Jing Sung; Seng Yong Lau; Chia-Hui Chen; Fei-Hsiu Hsiao; Hao-hua Chu; Polly Huang (National Taiwan University, Taiwan)
 - SE6. “**Silhouette Classification Using Pixel and Voxel Features for Improved Elder Monitoring in Dynamic Environments,**” Erik Stone; Marjorie Skubic (University of Missouri, USA)

Session 3 – Smart Environments for Health Care – 3

- 1:30pm - 3:00pm Chair: **George Demiris** (University of Washington, USA)
- SE7. “**Gait Characterization via Pulse-Doppler Radar,**” Tarik Yardibi; Paul Cuddihy; Sahika Genc (GE Global Research, USA); Corey Bufi (GE Energy, USA); Marjorie Skubic; Marilyn Rantz; Lisa Liang; Calvin Phillips (University of Missouri, USA)
 - SE8. “**Deviation Detection in Automated Home Care using CommonSens,**” Jarle S  berg; Vera H. Goebel; Thomas Plagemann (University of Oslo, Norway)

PerCol 2011: The Second IEEE Workshop on Pervasive Collaboration and Social Networking

Location: West Room

Session 1 – Social Networking

- 8:30am - 10:00am Chair: **Thomas Springer** (Technische Universit  t Dresden, Germany)
- PC1. “**Analysis of Fusing Online and Co-presence Social Networks,**” Juan Susan Pan; Daniel J Boston; Cristian Borcea (New Jersey Institute of Technology, USA)
 - PC2. “**MobilisGroups: Location-based Group Formation in Mobile Social Networks,**” Robert L  bke; Daniel Schuster; Alexander Schill (Technische Universit  t Dresden, Germany)

Session 2 – Social Interaction and Collaboration

- 10:30am - 12:00pm Chair: **Thomas Springer** (Technische Universit  t Dresden, Germany)
- PC3. “**Sapporo World Window: Urban Interaction through Public and Private Screens,**” Jaz Hee-jeong Choi; Jan Seeburger (Queensland University of Technology, Australia)
 - PC4. “**Crowdsourcing Location-based Queries,**” Muhammed Fatih Bulut; Yavuz Selim Yilmaz; Murat Demirbas (University at Buffalo, SUNY, USA)

Session 3 – Social Context and Social Sensing

- 1:30pm - 3:00pm Chair: **Daniel Schuster** (Technische Universit  t Dresden, Germany)
- PC5. “**Defining Situated Social Context for Pervasive Social Computing,**” Markus Endler; Alexandre Skyrme (PUC-RIO, Brazil); Daniel Schuster; Thomas Springer (Technische Universit  t Dresden, Germany)
 - PC6. “**Social Sensors and Pervasive Services: Approaches and Perspectives,**” Alberto Rosi; Marco Mamei; Franco Zambonelli (University of Modena and Reggio Emilia, Italy); Simon Dobson; Graeme Stevenson; Juan Ye (University of St Andrews, United Kingdom)

Session 4 – Developing Pervasive Social Applications

- 3:30pm - 5:00pm Chair: **Daniel Schuster** (Technische Universit  t Dresden, Germany)
- PC7. “**fAR-PLAY: a framework to develop Augmented/Alternate Reality Games,**” Lucio Gutierrez; Ioanis Nikolaidis; Eleni Stroulia; Sean Gouglas; Geoffrey Rockwell; Patricia Boechler; Mike Carbonaro; Sharla King (University of Alberta, Canada)
 - PC8. “**Network-Aware References for Pervasive Social Applications,**” Kevin Pinte; Dries Hamie; Elisa Gonzalez Boix; Wolfgang De Meuter (Vrije Universiteit Brussel, Belgium)

PerEL 2011: The Seventh IEEE International Workshop on Pervasive Learning, Life, and Leisure

Location: Marion Room

Session 1 – PerEL Invited Paper

9:00am - 10:00am Chair: **Djamshid Tavangarian** (University of Rostock)

- PE1. “**Enriching STEM Education Through Personalization and Teaching Collaboration.**” Ali Hurson; Sahra Sedigh (Missouri University of Science and Technology, USA); Les Miller (Iowa State University, USA); Behrooz Shirazi (Washington State University, USA)

Session 2 – PerEL Regular Papers – 1

10:30pm - 12:00pm Chair: **Ali Hurson** (Missouri University of Science and Technology, USA)

- PE2. “**Pervasive Urban Crowdsourcing: Visions and Challenges.**” Franco Zambonelli (University of Modena and Reggio Emilia, Italy)
- PE3. “**Architecture and Collaborations among Agents in Mobile Educational Game.**” Chris Lu; Maiga Chang; Dr Kinshuk (Athabasca Univ., Canada); Echo Huang; Ching-Wen Chen (National Kaohsiung First University of Science and Technology, Taiwan)
- PE4. “**Handling Multiple Channel Video Data for Personalized Multimedia Services: a Case Study on Soccer Games Viewing.**” Charalampos Patrikakis; Nikolaos Papaoulakis; Chrysanthi Stefanoudaki; Athanasios Voulodimos; Emmanuel S. Sardis (National Technical University of Athens - NTUA, Greece)

Session 3 – PerEL Regular Papers – 2

1:30pm - 3:00pm Chair: **Ulrike Lucke** (University of Potsdam)

- PE5. “**A User Supporting Personal Video Recorder by Implementing a Generic Bayesian Classifier Based Recommendation System.**” Benedikt Engelbert; Malte Blanken; Ralf Kruthoff-Brüwer; Karsten Morisse (Univ. of Applied Sciences Osnabrück, Germany)
- PE6. “**Maximizing Users Comfort Levels through User Preference Estimation in Public Smartspaces.**” Shinya Yamamoto (Tokyo Univ. of Science Yamaguchi, Japan); Naoya Kouyama; Keiichi Yasumoto; Minoru Ito (Nara Institute of Science and Tech., Japan)
- PE7. “**Location Based Learning Content Authoring and Content Access in the Docendo platform.**” Christoph Rensing (Technical University of Darmstadt, Germany); Stephan Tittel (Hessian Telemedia Technology Competence Center, Germany); Mojisola Anjorin (Technische Universität Darmstadt, Germany)

Session 4 – PerDesign Papers

3:30pm - 5:00pm Chair: **Thomas L. Martin** (Virginia Tech, USA)

- PE8. “**An Extension of Computer Engineering Methods for Interdisciplinary Design.**” Jordi Solsona Belenguer; Mark Smith (KTH-Royal Institute of Technology, Sweden)
- PE9. “**Spatial Augmented Reality Support for Design of Complex Physical Environments.**” Bruce Thomas; G Stewart Von Itzstein; Rudi Vernik; Shane Porter; Michael Mamer; Ross Smith; Markus Broecker; Benjamin Close; Sandy Walker; Sean Pickersgill; Steve Kelly; Peter Schumacher (Univ. of Sth. Australia)

CoMoRea 2011: The Eighth IEEE Workshop on Context Modeling and Reasoning

Location: East Room

Session 1 – Context Modeling

8:30am - 10:00am Chair: **Daniele Riboni** (University of Milan, Italy)

- CR1. “**A Preference Modelling Approach to Support Intelligibility in Pervasive Applications.**” Johnson Fong; Jadwiga Indulska (University of Queensland, Australia); Ricky Robinson (NICTA, Australia)
- CR2. “**Modelling Social Contexts for Pervasive Computing Environments.**” Giulia Biamino (University of Torino, Italy)
- CR3. “**High Level Context Query Processing: An Experience Report.**” Cristina Frà; Massimo Valla (Telecom Italia, Italy); Nearchos Paspallis (University of Cyprus, Cyprus)

Session 2 – Context Reasoning

10:30am - 12:00pm Chair: **Daniela Nicklas** (Carl von Ossietzky Univ. Oldenburg, Germany)

- CR4. “**Is Ontology-based Activity Recognition Really Effective?**” Daniele Riboni; Linda Pareschi; Laura Radaelli; Claudio Bettini (University of Milan, Italy)
- CR5. “**Discovering Daily Routines from Google Latitude with Topic Models.**” Laura Ferrari; Marco Mamei (Università di Modena e Reggio Emilia, Italy)
- CR6. “**An Approach to Collaborative Context Prediction.**” Christian Voigtmann (University of Kassel, Germany)

Session 3 – Context Quality and Management

1:30pm - 3:00pm Chair: **Daniela Nicklas** (Carl von Ossietzky Univ. Oldenburg, Germany)

- CR7. “**A Fine-grain Approach for Evaluating the Quality of Context.**” Zied Abid; Sophie Chabridon (Institut Télécom - Télécom SudParis, France)
- CR8. “**Decoupling Context-aware Services.**” Soren Debois; Arne John Glenstrup; Francesco Zanitti (IT University of Copenhagen, Denmark)
- CR9. “**A Context-aware Cost of Interruption Model for Mobile Devices.**” Sina Zulkernain; Praveen Madiraju; Sheikh Ahamed (Marquette University, USA)

Session 4 – Open Discussion

3:30pm - 5:00pm “**Trends and Challenges for Future Context-aware Systems**”

Moderators: Daniela Nicklas and Daniele Riboni

MP2P 2011: The Seventh International Workshop on Mobile Peer-to-Peer Computing

Location: Seneca Room

Session 1 – Mobile P2P Data and Network Services

8:45am - 10:00am Chair: **Kate Ching-Ju Lin** (Academia Sinica, Taiwan)

- MP1. “Device Discovery and Connection Establishment Approach Using Ad-Hoc Wi-Fi for Opportunistic Networks,” Shanshan Lu; Yanliang Liu; Yonghe Liu (The University of Texas at Arlington, USA)
- MP2. “Peer Selection in Mobile P2P Systems over 3G Cellular Networks,” Yan Zhang; Xu Zhou; Hui Tang; Fan Bai (Institute of Acoustics, Chinese Academy of Sciences, P.R. China)
- MP3. “On Mobile Clients as Free Riders in Peer-to-Peer Live Streaming,” Wei-Chih Ting; Pin-Chuan Liu; Shu-Hsin Chang; Jui-Wen Chen (Industrial Technology Research Institute, Taiwan)

Session 2 – Mobile P2P Data and Network Services

10:30am - 11:45am Chair: **Wei-Chih Ting** (Industrial Technology Research Institute, Taiwan)

- MP4. “Location-Assisted Energy-Efficient Content Search for Mobile Peer-to-Peer Networks,” Yu-Chih Tung (National Taiwan University, Taiwan); Kate Ching-Ju Lin (Academia Sinica, Taiwan)
- MP5. “P2P Network for Storage and Query of a Spatio-Temporal Flow of Events,” Ayis Ziotopoulos (University of Texas at Austin, USA); Gustavo de Veciana (The University of Texas at Austin, USA)
- MP5. “On Preserving Location Privacy in Mobile Environments,” Chien-Ping Wu (National Chiao Tung University, Taiwan); Chen-Che Huang (National Chiao Tung University, Taiwan); Jiun-Long Huang (National Chiao Tung University, Taiwan); Chih-Lin Hu (National Central University, Taiwan)

PWN 2011: The Seventh IEEE PerCom Workshop on Pervasive Wireless Networking

Location: James Room

Session 1 – Mobility and Load Balancing

8:30am - 10:00am Chair: **Ben Lee** (Oregon State University)

- PN1. “Evaluating Vehicular Ad hoc Networks for Group Applications,” Jayanthi Rao; Thomas Giuli (Ford Motor Company, USA)
- PN2. “Load Balancing Through Terminal Based Dynamic AP Reselection for QoS in IEEE 802.11 Networks,” Nikolaos Papaoulakis; Charalampos Patrikakis; Chrysanthi Stefanoudaki; Platon Sipsas; Athanasios Voulodimos (National Technical University of Athens, Greece)
- PN3. “Context Management System For Pervasive WMN,” Shivanajay Marwaha (UQ, Australia); Jadwiga Indulska (University of Queensland, Australia)

Session 2 – Routing and Localization

10:30am - 12:00pm Chair: **Ben Lee** (Oregon State University)

- PN4. “Semi-Markov Process based Model for Performance Analysis of Wireless LANs,” Murali Krishna Kadiyala; Dipti Shikha; Ravi Pendse; Neeraj Jaggi (Wichita State University, USA)
- PN5. “An energy-efficient strategy for combined RSS-PDR indoor localization,” Paula Tarró (Universidad Politécnica de Madrid, Spain); Matteo Cesana; Marco Tagliasacchi; Alessandro E. C. Redondi; Luca P. Borsani (Politecnico di Milano, Italy); Jose R Casar (Universidad Politecnica de Madrid, Spain)
- PN6. “GPS Assisted Routing Over an Ad-hoc Network of Smartphones,” Alireza Mahdian; Hansu Gu; Sravan Thokala; Shivakant Mishra (University of Colorado, USA)

Renaissance Seattle Hotel Meeting Rooms

