

Workshop Papers

CoMoRea 2007 (Friday 3/23/2007)

(Fourth IEEE Workshop on Context Modeling and Reasoning)

- CoMoRea-01** : Alessandra Agostini, Claudio Bettini, and Daniele Riboni, “A Performance Evaluation of Ontology-based Context Reasoning (Experience report)” (agostini@dico.unimi.it)
- CoMoRea-02** : Ricardo Rocha, Marco Casanova and Markus Endler, “Promoting Efficiency and Separation of Concerns Through a Hybrid Model Based on Ontologies for Context-Aware Computing” (rcarocha@inf.puc-rio.br)
- CoMoRea-03** : Dejene Ejigu, Marian Scuturici, and Lionel Brunie, “An Ontology-Based Approach to Context Modeling and Reasoning in Pervasive Computing” (dejene.ejigu@insa-lyon.fr)
- CoMoRea-04** : Ricky Robinson, Karen Henricksen, and Jadwiga Indulska, “XCML: A runtime representation for the Context Modelling Language” (karen.henricksen@nicta.com.au)
- CoMoRea-05** : Walteneagus Dargie, “The Role of Probabilistic Schemes in Multisensor Context-Awareness” (dargie@rn.inf.tu-dresden.de)
- CoMoRea-06** : Kuderna-Iulian Benta, Marcel Cremene, and Anca Rarau, “Ontology Based Context Model Extension for Affective Computing” (Iulian.Benta@com.utcluj.ro)
- CoMoRea-07** : Myilone Anandarajah, Ricky Robinson, and Jadwiga Indulska, “Hoarding Context Information with Context Clusters” (myilone@itee.uq.edu.au)
- CoMoRea-08** : Munmun De Choudhury, Hari Sundaram, Ajita John, and Dorée Duncan Seligmann, “Context-Aware Routing of Enterprise User Communications” (munmun.dechoudhury@asu.edu)
- CoMoRea-09** : Michael Blackstock, Rodger Lea, and Charles Krasic, “Managing an Integrated Ubicomp Environment using Ontologies and Reasoning” (michael@cs.ubc.ca)

ICMAN 2007 (Monday 3/19/2007 afternoon)

(International Workshop on Intermittently Connected Mobile Ad Hoc Networks)

- ICMAN-01** : Philippe Jacquet, and Bernard Mans, “Routing in Intermittently Connected Networks: Age Rumors in Connected Components” (philippe.jacquet@inria.fr)

- ICMAN-02 :** Apoorva Jindal, and Konstantinos Psounis, "Fundamental Mobility Properties for Realistic Performance Analysis of Intermittently Connected Mobile Networks"
(apoorvaj@gmail.com)
- ICMAN-03 :** Pan Hui, and Jon Crowcroft, "How Small Labels Create Big Improvements" (ph315@cam.ac.uk)
- ICMAN-04 :** Feiselina Tan, Sebastien Ardon, and Max Ott, "UbiStore: Ubiquitous and Opportunistic Backup Architecture"
(sebastien.ardon@nicta.com.au)
- ICMAN-05 :** Thrasyvoulos Spyropoulos, and Konstantinos Psounis, "Spray and Focus: Efficient Mobility-Assisted Routing for Heterogeneous and Correlated Mobility"
(Thrasyvoulos.Spyropoulos@sophia.inria.fr)
- ICMAN-06 :** Andy Yuen, and Henning Schulzrinne, "Localization for Intermittently Connected Ad Hoc Networks"
(andyuen@cs.columbia.edu)

MP2P 2007 (Friday 3/23/2007)

(Fourth IEEE International Workshop on Mobile Peer-to-Peer Computing)

- MP2P-01 :** Mads D. Kristensen, Niels Olof Bouvin, "Energy Efficient Routing in Nomadic Networks" (n.o.bouvin@daimi.au.dk)
- MP2P-02 :** Alan Brown, John Buford, Mario Kolberg, "Tork: A Variable-Hop Overlay for Heterogeneous Networks" (abr@cs.stir.ac.uk)
- MP2P-03 :** Christian Hoff, Ulf Wehling, Christian Hiedels, Steffen Rothkugel, "UbiSettlers-A Dynamically Adapting Mobile P2P Multiplayer Game for Hybrid Networks" (christian.hoff@uni.lu)
- MP2P-04 :** Manuel Scholz, Frank Bregulla, Annika Hinze, "Using Physical Clocks or Replication in MANETs" (mscholz@inf.fu-berlin.de)
- MP2P-05 :** Hovhannes Harutyunyan, Junlei He, "A New Peer-to-peer Network" (haruty@cs.concordia.ca)
- MP2P-06 :** Dewan Ahmed, Shervin Shirmohammadi, "Multi-level Hashing for Peer-to-Peer System in Wireless Ad Hoc Environment"
(dahmed@discover.uottawa.ca)
- MP2P-07 :** Bent Christensen, "LightPeers: A Lightweight Mobile P2P platform" (bentor@daimi.au.dk)
- MP2P-08 :** Matthias Ganzinger, William Hymas, Thomas Schütt, "Securing Broadcast Based Ad Hoc Routing Protocols"
(mganzinger@de.ibm.com)

PerEL 2007 (Friday 3/23/2007)

(Third IEEE International Workshop on Pervasive Learning)

- PerEL-01:** Nipan Maniar, Emily Bennett, Diane Gal, “The Effect that Screen Size has on Video-Based M-Learning” (nipan.maniar@port.ac.uk)
- PerEL-02 :** Cornelius Bradter, Klaus Hobohm, “Providing large documentary multimedia files with educational and scientific content over the web” (cornelius@bradter.de)
- PerEL-03 :** Carlos Turro, Luis Morcillo, Jaime Busquets, “On webcasting to mobile devices: reusing web & video content for pervasive e-learning” (turro@cc.upv.es)
- PerEL-04 :** Sabina Jeschke, Thomas Richter, Harald Scheel, Christian Thomsen, “On Remote and Virtual Experiments in eLearning in Statistical Mechanics and Thermodynamics” (sabina.jeschke@math.tu-berlin.de)
- PerEL-05 :** Nicola M. Döring, “The Mainstreaming of Mobile Learning at a German University” (nicola.doering@tu-ilmeneau.de)
- PerEL-06 :** Mark Weal, Don Cruickshank, Danius Michaelides, David Millard, David De Roure, Katherine Howland, Geraldine Fitzpatrick, “A Card Based Metaphor for Organising Pervasive Educational Experiences” (mjw@ecs.soton.ac.uk)
- PerEL-07 :** Alexander Höhfeld, “A ubiquitous m-learning framework for Network Centric Operations” (hoehfeld@syssoft.uni-trier.de)
- PerEL-08 :** M. Felisa Verdejo, Carlos Celorrio, “A Multi-Agent Based System for Activity Configuration and Personalization in a Pervasive Learning Framework” (ccelorrio@bec.uned.es)
- PerEL-09 :** Cássia Nino, Jader Marques, Débora Barbosa, Jorge Barbosa, Cláudio Geyer, Iara Augustin, “Context-Aware Model in a Ubiquitous Learning Environment” (nice@unilasalle.edu.br)
- PerEL-10 :** Tash Lee, Dan Sutch, “Fizees: Wearable digital devices to motivate movement and encourage physical activity in children and young people” (tash.lee@futurelab.org.uk)
- PerEL-11 :** Louise Mifsud, Anders Morch, “‘That’s my PDA!’ The Role of Personalization for Handhelds in the Classroom” (anders.morch@intermedia.uio.no)
- PerEL-12 :** Michael Eisenberg, “Pervasive Fabrication: Making Construction Ubiquitous in Education” (duck@cs.colorado.edu)
- PerEL-13 :** Bernd Eßmann, Thorsten Hampel, and Reinhard Keil, “Challenges towards a Distributed Persistence for Next Generation CSCW Applications” (reinhard.keil@uni-paderborn.de)

PerEL-14 : Evi Syukur, and Seng Loke, “Pervasive Learning Services for Campus Environments” (Evi.Syukur@mail.csse.monash.edu.au)

PerSec 2007 (Monday 3/19/2007 afternoon)

(Fourth IEEE International Workshop on Pervasive Computing and Communication Security)

- PerSec-01 :** Benessa Defend, Kevin Fu, Ari Juels, “Cryptanalysis of Two Lightweight RFID Authentication Schemes”
(defend@cs.umass.edu)
- PerSec-02 :** Jorge Guajardo, Lejla Batina, Tim Kerins, Nele Mentens, Pim Tuyls, Ingrid Verbauwhede, “Public-Key Cryptography for RFID-Tags” (Jorge.Guajardo@philips.com)
- PerSec-03 :** Yang Cui, Kazukuni Kobara, Kanta Matsuura, Hideki Imai, “Lightweight Asymmetric Privacy-Preserving Authentication Protocols Secure against Active Attack” (cuiyang@imailab.iis.u-tokyo.ac.jp)
- PerSec-04 :** Mauro Conti, Roberto Di Pietro, Luigi Vincenzo Mancini, Angelo Spognardi, “RIPP-FS: an RFID Identification, Privacy Preserving protocol with Forward Secrecy”
(conti@di.uniroma1.it)
- PerSec-05 :** Miroslaw Kutylowski, Marek Klonowski, Jacek Cichon, “Privacy Protection in Dynamic Systems Based on RFID Tags”
(mirekk@im.pwr.wroc.pl)
- PerSec-06 :** Urs Hengartner, Ge Zhong, “Distributed, Uncertainty-Aware Access Control for Pervasive Computing”
(uhengart@cs.uwaterloo.ca)
- PerSec-07 :** Rene Mayrhofer, “Towards an Open Source Toolkit for Ubiquitous Device Authentication” (rene@comp.lancs.ac.uk)

PerSeNS 2007 (Monday 3/19/2007)

(Third IEEE International Workshop on Sensor Networks and Systems for Pervasive Computing)

- PerSeNS-01 :** Animesh Pathak, Luca Mottola, Amol Bakshi, Viktor Prasanna, and Gian Pietro Picco, “Expressing Sensor Network Interaction Patterns using Data-Driven Macroprogramming”
(animesh@usc.edu)
- PerSeNS-02 :** Urs Bischoff and Gerd Kortuem, “A State-based Programming Model and System for Wireless Sensor Networks”
(u.bischoff@comp.lancs.ac.uk)

- PerSeNS-03 :** Cormac Duffy, Utz Roedig, John Herbert, and Cormac Sreenan, “An Experimental Comparison of Event Driven and Multi-Threaded Sensor Node Operating Systems” (c.duffy@cs.ucc.ie)
- PerSeNS-04 :** David Yates, Erich Nahum, Jim Kurose, and Prashant Shenoy, “Data Quality and Query Cost in Wireless Sensor Networks” (dyates@bentley.edu)
- PerSeNS-05 :** Chatschik Bisdikian, “On Sensor Sampling and Quality of Information: A starting point” (bisdik@us.ibm.com)
- PerSeNS-06 :** Anna Egorova-Förster, and Amy Murphy, “Exploring Non Uniform Quality of Service for Extending WSN Lifetime” (anna.egorova.foerster@lu.unisi.ch)
- PerSeNS-07 :** Leonardo Oliveira, Ricardo Dahab, Júlio López, and Felipe Daguano, “Identity-Based Encryption for Sensor Networks” (leob@ic.unicamp.br)
- PerSeNS-08 :** Abdallah Makhoul, Jacques Bahi, and Ahmed Mostefaoui, “Localization and Coverage for High Density Sensor Networks” (makhoul@iut-bm.univ-fcomte.fr)
- PerSeNS-09 :** Marcel Busse, Thomas Haenselmann, and Wolfgang Effelsberg, “Energy-Efficient Data Dissemination for Wireless Sensor Networks” (busse@informatik.uni-mannheim.de)
- PerSeNS-10 :** Mohammad Rezaeian, “Sensor Scheduling for Optimal Observability Using Estimation Entropy” (rezaeian@unimelb.edu.au)
- PerSeNS-11 :** Edwin Soedarmadji, “Worst-Case Performance Evaluation of Sensor Networks” (edwin@systems.caltech.edu)
- PerSeNS-12 :** Matthew Miller, and Indranil Gupta, “Practical Exploitation of the Energy-Latency Tradeoff for Sensor Network Broadcast” (mjmille2@uiuc.edu)
- PerSeNS-13 :** Rui Huang, and Gergely V. Záruba, “Static Path Planning for Mobile Beacons to Localize Sensor Networks” (zaruba@uta.edu)

PerTec 2007 (Monday 3/19/2007)

(Pervasive RFID/NFC Technology and Applications Workshop)

- PerTec-01 :** Tomas Sanchez Lopez, Daeyoung Kim, “A Context Middleware Based on Sensor and RFID information” (kimd@icu.ac.kr)
- PerTec-02 :** Alexander Ilic, Florian Michahelles, Elgar Fleisch, “Dual Ownership: Access Management for Shared Item Information in RFID-enabled Supply Chains” (ailic@ethz.ch)

- PerTec-03 :** Elcio Abrahao, Jorge Nakahara Jr, “Improving RFID Tags Protocol to Assure Secure Ownership Transfer”
(elcio_abrahao@yahoo.com.br)
- PerTec-04 :** Ari Juels, Stephen Weis, “Defining Strong Privacy for RFID”
(ajuels@rsasecurity.com)
- PerTec-05 :** Mikko Lehtonen, “Towards Optimal Level of Security in RFID-based Anti-Counterfeiting” (mikkol@ethz.ch)
- PerTec-04 :** Paul Moskowitz, Stephen Morris, Andris Lauris, “A Privacy-Enhancing Radio Frequency Identification Tag: Implementation of the Clipped Tag” (alauris@marnlen.com)
- PerTec-07 :** Christian Metzger, Christian Flörkemeier, “Making Radio Frequency Identification Visible - A Watchdog Tag”
(floerkem@inf.ethz.ch)
- PerTec-08 :** Yaw Anokwa, Gaetano Borriello, Trevor Perring, Roy Want, “A User Interaction Model for NFC Enabled Applications”
(roy.want@intel.com)
- PerTec-09 :** Manfred Aigner, Sandra Dominikus, Martin Feldhofer, “A System of Secure Virtual Coupons Using NFC Technology”
(Martin.Feldhofer@iaik.tugraz.at)
- PerTec-10 :** Vassilis Kostakos, Eamonn Oneil, “NFC on Mobile Phones: Issues, Lessons and Future Research” (eamonn@cs.bath.ac.uk)
- PerTec-11 :** Yasunobu Nohara, Sozo Inoue, Hiroto Yasuura, “Unlinkability and Real World Constraints in RFID Systems”
(yasuura@c.csce.kyushu-u.ac.jp)
- PerTec-12 :** Steve Hinske, “Determining the Position and Orientation of Multi-Tagged Objects Using RFID Technology”
(steve.hinske@inf.ethz.ch)
- PerTec-13 :** Akhilesh Saxena, Samrat Ganguly, Sudeept Bhatnagar, and Rauf Izmailov, “RFInD: An RFID-based System to Manage Virtual Spaces” (saxena@nec-labs.com)
- PerTec-14 :** Evan Welbourne, Magda Balazinska, Gaetano Boriello, Waylon Brunette, “Challenges for Pervasive RFID-based Infrastructures”
(wrb@cs.washington.edu)

PerTrans 2007 ([Friday 3/23/2007](#))

(The First International Workshop on Pervasive Transportation Systems)

- PerTrans-01 :** David Evans, Alastair Beresford, Trevor Burbridge, Andrea Soppera, “Context-derived Pseudonyms for Protection of Privacy in Transport Middleware and Applications”
(David.Evans@cl.cam.ac.uk)

- PerTrans-02** : Marcus Tönnis, Jan-Gregor Fischer, Gudrun Klinker, “Ontology-based Pervasive Spatial Knowledge for Car Driver Assistance” (toennis@in.tum.de)
- PerTrans-03** : Dalia Tiesyte, Christian S. Jensen, “Challenges in the Tracking and Prediction of Scheduled-Vehicle Journeys” (dalia@cs.aau.dk)
- PerTrans-04** : Milton Halem, Anand Patwardhan, Sandor Dornbush, Michael Seablom, Yelena Yesha, “Sensor Web Design Studies for Realtime Dynamic Congestion Pricing” (anand.patwardhan@gmail.com)
- PerTrans-05** : Deirdre Lee, Rene Meier, “Primary-Context Model and Ontology: A Combined Approach for Pervasive Transportation Services” (delee@cs.tcd.ie)
- PerTrans-06** : Peter Shin, Hector Jasso, “Automatic Vehicle Type Classification using Strain Gauge Sensors” (pshin@sdsc.edu)
- PerTrans-07** : Yukimune Kuroki, Takaki Okino, Tomohiro Haraikawa, Yutaka Sakane, Yoichi Takebayashi, “Multimodal Cruising Assist to Enhance the Drivers’ Abilities to Perceive Surrounding Contexts Using Panoramic Presentation with Dynamic Multiple Windows” (gibson@takebay.net)
- PerTrans-08** : Jonathan Munson, Young Ju Tak, “The XVC Framework for In-Vehicle User Interfaces” (jpmunson@us.ibm.com)

PerWare 2007 ([Monday 3/19/2007](#))

(Fourth IEEE International Workshop on Middleware Support for Pervasive Computing)

- PerWare-01** : Tom Broens, Aart van Halteren, Dick Quartel, “Dynamic Context Bindings in Pervasive Middleware” (broens@ewi.utwente.nl)
- PerWare-02** : Licia Capra, “MaLM: Machine Learning Middleware to Tackle Ontology Heterogeneity” (l.capra@cs.ucl.ac.uk)
- PerWare-03** : Yong Song, Sangkwon Moon, Gyudonn Shim, Daeyeon Park, “Mu-ware : Middleware Framework for Wearable Computer and Ubiquitous Computing Environment” (ysong@sslabs.kaist.ac.kr)
- PerWare-04** : Kamran Sheikh, Maarten Wegdam, “Middleware Support for Quality of Context in Pervasive Context-Aware Systems” (k.sheikh@ewi.utwente.nl)
- PerWare-05** : Martin Saternus, Torben Weis, Mirko Knoll, Frank Dürr, “A Middleware for Context-Aware Applications and Services Based on Messenger Protocols” (Martin.Saternus@ipvs.uni-stuttgart.de)

- PerWare-06 :** Marcus Handte, Klaus Herrmann, Christian Becker, Gregor Schiele, “Supporting Pluggable Configuration Algorithms in PCOM” (marcus.handte@ipvs.uni-stuttgart.de)
- PerWare-07 :** Zahid Anwar, “Secure Reincarnation of Compromised Servers with Time-Forking Virtual Machines” (anwar@uiuc.edu)
- PerWare-08 :** Fahad Aijaz, Guido Gehlen, Muhammad Sajjad, “A Mobile Context Dissemination Middleware” (fah@comnets.rwth-aachen.de)
- PerWare-09 :** Caroline Funk, “Support of Stateful Services in Pervasive Environments” (funkc@nm.ifi.lmu.de)
- PerWare-10 :** Andres Marin, Wolfgang Mueller, Robbie Schaefer, Florina Almenares, Daniel Diaz-Sanchez, Max Ziegler, “Middleware for Secure Home Access and Control” (amarin@it.uc3m.es)
- PerWare-11 :** Christian Flörkemeier, Matthias Lampe, Christof Roduner, “Facilitating RFID Development with the Accada Prototyping Platform” (floerkem@inf.ethz.ch)
- PerWare-12 :** Charles Consel, Wilfried Jouve, Julien Lancia, Nicolas Palix, “Ontology-Directed Generation of Frameworks For Pervasive Service Development” (wilfried.jouve@labri.fr)

PWN 2007 (Friday 3/23/2007)

(Third IEEE PerCom Workshop on Pervasive Wireless Networking)

- PWN-01 :** Stefan Penz, “A DSR Extension for Connection Stability Assessment in Mobile Ad hoc Networks” (penz@i4.informatik.rwth-aachen.de)
- PWN-02 :** Cyril Grepet, and Stephane Maag, “A Testing Methodology for a MANET Routing Protocol using a Node Self-Similarity Approach” (Stephane.Maag@int-evry.fr)
- PWN-03 :** Myeong-a Yang, Yangwoo Ko, and Dongman Lee, “A Social Group-aware and Tunneled Scatternet Formation Scheme” (may@icu.ac.kr)
- PWN-04 :** Chun-Ting Chou, and Jun Yan, “Distributed Medium Access Control with Automatic Partner Selection in Wireless Cooperative Networks” (chun-ting.chou@philips.com)
- PWN-05 :** Thanasis Korakis, Zhifeng Tao, Yevgeniy Slutskiy, and Shivendra Panwar, “A Cooperative MAC protocol for Ad-Hoc Wireless Networks” (panwar@catt.poly.edu)
- PWN-06 :** Roberto Pagliari, and Anna Scaglione, “Non-cooperative Versus Cooperative Approaches for Distributed Network Synchronization” (anna@ece.cornell.edu)

- PWN-07 :** Michael Gregoire, and Israel Koren, “An Adaptive Algorithm for Fault Tolerant Re-Routing in Wireless Sensor Networks” (michael.gregoire@gmail.com)
- PWN-08 :** Leonardo B. Oliveira, A. A. F. Loureiro, and Ricardo Dahab, “SOS: Secure Overlay Sensornets” (leob@ic.unicamp.br)
- PWN-09 :** Thanh Hai Trinh, and Hee Yong Youn, “On Mobile Sink Node for Energy Efficient Target Tracking in Wireless Sensor Networks” (youn@ece.skku.ac.kr)
- PWN-10 :** Brian Luu, Barry O'Brien, David Baran, and Rommie Hardy, “A Soldier-Robot Ad Hoc Network” (bluu@arl.army.mil)
- PWN-11 :** Heiko Kopp, Martin Krohn, Robil Daher, and Djamshid Tavangarian, “Wireless Self-Organizing Backbone Mesh Network (WiSoNet)” (heiko.kopp@uni-rostock.de)
- PWN-12 :** Sung-Ho Kim, and Young-bae Ko, “Wireless Bonding for Maximizing Throughput In Multi-Radio Mesh Networks” (likeleon@ajou.ac.kr,youngko@ajou.ac.kr)

WiP 2007 (Tuesday 3/20/2007, 12:30pm-2:30pm)

(IEEE PerCom Work in Progress Papers)

- WiP-01 :** Claudio Bettini, Sushil Jajodia, and Linda Pareschi, “Anonymity and Diversity in LBS: A preliminary Investigation” (bettini@dico.unimi.it)
- WiP-02 :** Kazutaka Matsuzaki and Shinichi Honiden, “Increasing the Ease of Deployment in Ubiquitous Environments” (matsuzaki@nii.ac.jp)
- WiP-03 :** Gregor Schiele, Marcus Handte, and Christian Becker, “Good Manners for Pervasive Computing – An Approach Based on the Ambient Calculus” (gregor.schiele@uni-mannheim.de)
- WiP-04 :** Mirko Knoll, Arno Wacker, Gregor Schiele, and Torben Weis, “Decentralized Bootstrapping in Pervasive Applications” (knollmo@ipvs.uni-stuttgart.de)
- WiP-05 :** Fernando Trinta, Davi Pedrosa, Carlos Ferraz, and Gever Ramalo, “Scenarios and Middleware Services for Pervasive Multiplatform Networked Games” (famt@cin.ufpe.br)
- WiP-06 :** Tasos Falas and Hossein Kashani, “Two Dimensional Bar-code Decoding with Camera-Equipped Mobile Phones” (tfalas@cs.ucy.ac.cy)
- WiP-07 :** Julia Kuck and Melanie Gnasa, “Towards Context-Sensitive Service Discovery” (kuck@iai.uni-bonn.de)
- WiP-08 :** Jie Wu, “Dynamic Carrier-Assisted Routing in Mobile Networks” (jie@cse.fau.edu)

- WiP-09 :** Y. Chen, W. Trappe, and R. P. Martin, “ADLS: Attack Detection for Wireless Localization Using Least Squares”
(yingche@cs.rutgers.edu)
- WiP-10 :** Jinsul Kim, and Hyun-Woo Lee, “Voice Quality Guaranteed Service over Best-Effort IP Network for Pervasive Environments” (jsetri@etri.re.kr)
- WiP-11 :** Jongwoo Sung, Tomas Sanchez Lopez, and Daeyoung Kim, “The EPC Sensor Network for RFID and USN Integration Infrastructure” (jwsung@icu.ac.kr)
- WiP-12 :** Marko Jurmu, Mikko Perttunen, and Jukka Riekkı, “Lease-Based Resource Management in Smart Spaces”
(marko.jurmu@ee.oulu.fi)