Table of Contents

Locating Zigbee Devices in a Cluster-Tree Wireless Sensor Network: an ESD-based Integrated Solution Stefano Tennina and Marco Di Renzo	1
An Adaptative Broadcast Scheme for VANET Applications in a High Density Context Florent Kaisser, Christophe Gransart, and Marion Berbineau	5
ZeDDS Fault-Tolerant Data Management in Wireless Sensor Networks with Mobile Users Jens Kamenik, Christoph Peuser, Volker Gollucke, Daniel Lorenz, Roland Piechocki, Merlin Wasmann, and Oliver Theel	11
Learning Enhanced Environment Perception for Cooperative Power Control Panagiotis Spapis, George Katsikas, Makis Stamatelatos, Konstantinos Chatzikokolakis, Roi Arapoglou, and Nancy Alonistioti	17
Study on secure mobile communication based on the hardware security module Junho Lee, Haeng-Seok Ko, SangHyun Park, Myungwon Seo, and Injung Kim	23
Personalized Security in Mobile Environments Using Software Policies Mhammed Chraibi, Hamid Harroud, and Abdelilah Maach	27
MergeIA: A Service for Dynamic Merging of Interfering Adaptations in Ubiquitous System Sana Fathallah Ben Bbdenneji, Stephane Lavirotte, Jean-Yves Tigli, Gaetan Rey, and Michel Riveill	34
Dependability of Aggregated Objects, a pervasive integrity checking architecture Fabien Allard, Michel Banatre, Fabrice Ben Hamouda-Guichoux, Paul Couderc, and Jean-Francois Verdonck	39
An Extension of RankBoost for semi-supervised Learning of Ranking Functions Faiza Dammak, Hager Kammoun, and Abdelmajid Ben Hamadou	49
A DHT-based Scalable and Fault-tolerant Cloud Information Service Radko Zhelev and Vasil Georgiev	55
A 3D Simulation Framework for Safe Ambient-Assisted Home Care Carlos Velasquez, Christophe Soares, Ricardo Morla, Rui Silva Moreira, Jose Manuel Torres, and Pedro Sobral	61
Voice Activated Interactive Ambient Information Display Angelina A Tzacheva, Keith J Bell, and Hillary B Miller	67
An Analysis of Android Smartphones as a Platform for Augmented Reality Games Andres Lopez Sarmiento, Margarita Amor Lopez, Emilio Jose Padron Gonzalez, and Carlos Vazquez Regueiro	71

Context-aware Multimedia Distribution to User Groups Filipe Cabral Pinto, Antonio Videira, and Nuno Carapeto	77
Where's My Pixel? Multi-view Reconstruction of Smart LED Displays Carl Lewis, Angie Chandler, and Joe Finney	83
A TCP Service Migration Protocol for Single User Multiple Devices Chi-Yu Li, Ioannis Pefkianakis, Bojie Li, Chenghui Peng, Wei Zhang, and Songwu Lu	90
Increasing Usage Intention of Mobile Information Services via Mobile Tagging Susanne J. Niklas and Stephan Bohm	98
A Smart Control System Solution Based on Semantic Web and uID Esa Viljamaa, Jussi Kiljander, Juha-Pekka Soininen, and Arto Ylisaukko-oja	105
Babel Multi-hop Routing for TinyOS Low-power Devices Antoine Hauck and Peter Sollberger	111
OLFServ: An Opportunistic and Location-Aware Forwarding Protocol for Service Delivery in Disconnected MANETs Nicolas Le Sommer and Yves Maheo	115
Transforming Basic Robotic Platforms into Easily Deployable and Web Remotely Controllable Robots <i>Yvon Autret, Jean Vareille, and Philippe Le Parc</i>	123
Performance Evaluation of Distributed Applications via Kahn Process Networks and ABSOLUT Subayal Khan, Jukka Saastamoinen, Jyrki Huusko, and Jari Nurmi	128
The Interaction Analyzer: A Tool for Debugging Ubiquitous Computing Applications Nam Nguyen, Leonard Kleinrock, and Peter Reiher	138
Real-time Diagnosis of Ambient Environments Using a Modeling of Physical Effects Combined with Temporal Logic Ahmed Mohamed, Christophe Jacquet, and Yacine Bellik	145
Significance of Semantic Web in Facilitating HCI in Mobile and Ubiquitous Learning Naif Aljohani and Hugh Davis	152
Fault Tolerant Execution of Transactional CompositeWeb Services: An Approach Yudith Cardinale and Marta Rukoz	158
Dynamic negotiation layer for secure Semantic Service Oriented Architectures Fabio Sanvido, Daniel Diaz-Sanchez, Florina Almenarez-Mendoza, and Andres Marin-Lopez	165

Fusing Camera and Wi-Fi Sensors for Opportunistic Localization Sam Van den Berghe, Maarten Weyn, Vincent Spruyt, and Alessandro Ledda	169
Cooperation in Ad Hoc Network Security Services - Classification and Survey Jose Montero-Castillo and Esther Palomar	175
Collaborative Knowledge Construction Using Concept Maps for Cross-cultural Communication Takahito Tomoto, Takako Akakura, Satoko Sugie, Yuri Nishihori, and Keizo Nagaoka	180
Performance Evaluation of Wireless IP Telephony (W-IPT) over Wi-Fi Networks Maan Kousa	187
Towards a Runtime Evolutionary Model of User Interface Adaptation in a Ubiquitous Environment Imen Ismail and Faouzi Moussa	193
Capturing Mobile Devices Interactions Minimizing the External Influence Ivan Pretel and Ana B. Lago	200
Ubiquitous Computing Market and Companies in Finland Nina Koivisto	206
A New Model for context aware applications analysis and design Henryk Krawczyk and Slawomir Nasiadka	211
Social Network-Based Course Material Transformations For A Personalized And Shared Ubiquitous E-Learning Experience Timothy Arndt and Angela Guercio	218
Propensity to Use Smartphone Applications Hannu Verkasalo	223
Online Friend Recommendation through Personality Matching and Collaborative Filtering Li Bian and Henry Holtzman	230
	230
Li Bian and Henry Holtzman UbiPOL: A Platform for Context-aware Mobile Device Applications in Policy Making	

On an Information Architecture for Mobile Applications Sathiamoorthy Manoharan	258
Communication system with SISO channel decoding using bit stuffing Natasa Zivic	262
External Interference-Aware Distributed Channel Assignment in Wireless Mesh Networks Felix Juraschek, Mesut Gunes, and Bastian Blywis	267
A Fast Bandwidth Request and Grant Method for IEEE 802.16 OFDMA/TDD Systems Namsuk Lee, Sookjin Lee, and Nam Kim	271
An Approach to Enhance the Timeliness of Wireless Communications Jeferson Souza and Jose Rufino	277
Opportunistic spectrum sharing scheme for secondary WiFi-like devices in TV white spaces Bisera Jankuloska, Vladimir Atanasovski, and Liljana Gavrilovska	283
Interference Control Technology for Heterogeneous Networks Junsik Kim, Kyongtak Cho, Byunghan Ryu, and Namhoon Park	290
Mobile Learning (mLearning) Based on Cloud Computing: mLearning as a Service (mLaaS) Mohssen Alabbadi	296
Focus and Exploration in Contextual Relevance Mamdouh Eljueidi, Chiara Rossitto, and Ilaria Canova Calori	303
Assistive Mobile Software for Public Transportation Joao Silva, Catarina Silva, Luis Marcelino, Rui Ferreira, and Antonio Pereira	309
Mobility in a Personalized and Flexible Video-based Transmedia Environment Alcina Prata and Teresa Chambel	314
Pervasive Computing in Embedded Systems: Designing Cooperative Applications for Real Environments Alberto Zambrano Galbis	321
Research Challenges for Cooperating Objects Pedro Jose Marron, Daniel Minder, and Marco Zuniga	327
Passive vs. Active Measurement: The Role of Smart Sensors Miklos Kasza, Vilmos Szucs, Adam Vegh, and Tibor Torok	333
Challenges in the Planning, Deployment, Maintenance and Operation of Large-Scale Networked Heterogeneous	338