

# **2011 4th IFIP International Conference on New Technologies, Mobility and Security**

**(NTMS 2011)**

**Paris, France  
7 – 10 February 2011**



**IEEE Catalog Number: CFP1168E-PRT  
ISBN: 978-1-4244-8705-9**

# TABLE OF CONTENTS

<b>Digital Fountains + P2P for Future IPTV Platforms: A Test-bed Evaluation</b> .....	1
<i>G. Marfia, M. Rocchetti, A. Cattaneo, A. Sentinelli, A. Vitali, L. Celetto, M. Gerla</i>	
<b>Message Denial and Alteration on IEEE 802.15.4 Low-Power Radio Networks</b> .....	6
<i>Colin P. O'Flynn</i>	
<b>High Power Efficiency and Low Nonlinear Distortion for Wireless Visible Light Communication</b> .....	11
<i>Sang-Burm Ryu, Jae-Hoon Choi, Junyeong Bok, Huikyu Lee, Heung-Gyoon Ryu</i>	
<b>Inductive Intrusion Detection in Flow-Based Network Data using One-Class Support Vector Machines</b> .....	16
<i>Philipp Winter, Eckehard Hermann, Markus Zeilinger</i>	
<b>Cooperative Mobility Management in Multihomed End-to-End Communications</b> .....	21
<i>Xiaofei Zhang, Thi Mai Trang Nguyen, Guy Pujolle</i>	
<b>An Optimal Guard-intervals Based Mechanism for Key Generation from Multipath Wireless Channels</b> .....	26
<i>Youssef El Hajj Shehadeh, Dieter Hogrefe</i>	
<b>Dynamic Spectrum Hole Management in Cognitive Radio</b> .....	31
<i>Ines Aissa, Mounir Frikha, Sami Tabbane</i>	
<b>Active ISP Involvement in Content-Centric Future Internet</b> .....	35
<i>Salekul Islam, Jean-Charles Gregoire</i>	
<b>Providing Resistance against Server Information Leakage in RFID Systems</b> .....	40
<i>Suleyman Kardas, Tubitak Uekae, Albert Levi, Ertugrul Murat</i>	
<b>A Mobility Management Solution for Simultaneous Mobility with mSCTP</b> .....	47
<i>Kaibo Zhou, Gang Liu, Yong Yao, Adrian Popescu</i>	
<b>Improvements to Inter System Handover in the EPC Environment</b> .....	52
<i>S. Frei, W. Fuhrmann, A. Rinkel, B. V. Ghita</i>	
<b>Secure Instant Messaging Protocol for Centralized Communication Group</b> .....	57
<i>Mohamed Hamdy Eldefrawy, Khaled Alghathbar, Muhammad Khurram Khan, Hassan Elkamchouchi</i>	
<b>Secure Delivery of Equipment Identity from Vendor to Operator</b> .....	61
<i>Konstantin Shemyak, Jussi Kosonen</i>	
<b>Assessing the Impact of Signaling on the QoE of Push-based P2P-TV Diffusion Algorithms</b> .....	66
<i>Dario Rossi, Paolo Veglia</i>	
<b>MMOR: A Mapping Method for Ontology Registration to Improve XMDR</b> .....	71
<i>Jeong-Dong Kim, Jiseong Son, Doo-Kwon Baik</i>	
<b>Performance Evaluation of Storage-Independent Model for SPARQL-to-SQL Translation Algorithms</b> .....	76
<i>Jiseong Son, Jeong-Dong Kim, Doo-Kwon Baik</i>	
<b>Performance of Localization Algorithm under Corrupted Measurement Data and Lopsided Sensor Arrangement</b> .....	80
<i>Hiroyuki Hatano, Tomoharu Mizutani, Kazuya Sugiyama, Yoshihiko Kuwahara</i>	
<b>3GPP IMS-based Inter-Device Collaboration</b> .....	84
<i>Syed Husain, Shin-Ichi Isobe, Kaniz Mahdi, Laeyoung Kim, Arnaud Vedrine, Andreas Kunz, Antoine Mouquet, Rajat Ghai, Mario Madella</i>	
<b>Sinks Mobility Strategy in IPv6-based WSNs for Network Lifetime Improvement</b> .....	90
<i>Leila Ben Saad, Bernard Tourancheau</i>	
<b>Comparisons of Home Area Network Connection Alternatives for Multifamily Dwelling Units</b> .....	95
<i>Jun Wang, Victor C. M. Leung</i>	
<b>M<sup>2</sup>ANET: a Mobile Medium Ad Hoc Network</b> .....	100
<i>John Dedourek, Przemyslaw Pochec</i>	
<b>QoS and Admission Probability Study for a SIPbased Central Managed IP Telephony System</b> .....	104
<i>Jose Saldana, Jenifer Murillo, Julián Fernández-Navajas, José Ruiz-Mas, Eduardo Viruete Navarro, José I. Aznar</i>	
<b>The Flexible Bus Systems Using Zigbee as a Communication Medium</b> .....	110
<i>Razi Iqbal, Yukimatsu Kenichi, Tatsuya Ichikawa</i>	
<b>QMoEs: A Bandwidth Estimation and Monitoring Tool for QoE-Driven Broadband Networks</b> .....	115
<i>Jose I. Aznar, Eduardo Viruete Navarro, Julián Fernández-Navajas, Jose Ruiz-Mas, Jose Saldana, Jenifer Murillo</i>	
<b>Proposal and Evaluation of a Dynamic Resource Allocation Method based on the Load of VMs on IaaS</b> .....	119
<i>Atsuo Inomata, Taiki Morikawa, Minoru Ikebe, Yoshihiro Okamoto, Satoru Noguchi, Kazutoshi Fujikawa, Hideki Sunahara, Mizanur Rahman</i>	

<b>HTTP Acceleration Over High Latency Links</b> .....	125
<i>Paul Davern, Noor Nashid, Ahmed Zahran, Cormac J Sreenan</i>	
<b>Requirement Considerations for Ubiquitous Integration of Cooperating Objects</b> .....	130
<i>Stamatis Karnouskos, Vladimir Villasenor-Herrera, Muhammad Haroon, Marcus Handte, Pedro Jose Marron</i>	
<b>Information-Centric Multiaccess P2P Networks</b> .....	135
<i>Olli Mämmelä, Kostas Pentikousis, Petteri Mannersalo</i>	
<b>Distributed Resource Allocation Mechanism for SOA Service Level Agreements</b> .....	139
<i>Kostas Katsalis, Leandros Tassioulas, Yannis Viniotis</i>	
<b>TCP Over Low-power and Lossy Networks: Tuning the Segment Size to Minimize Energy Consumption</b> .....	145
<i>Ahmed Ayadi, Patrick Maille, David Ros</i>	
<b>Cross-layer Secrecy Design on TCP/IP and 802.11 for Energy Saving</b> .....	150
<i>Fullana A. Urbano, Gomila J. L. Ferrer, Capella M. Payeras, Campos M. Hinarejos, Rotger L. Huguet</i>	
<b>Coverage-Aware Node-Disjoint Multipath Selection in Wireless Multimedia Sensor Networks</b> .....	155
<i>Daniel G. Costa, Luiz Affonso Guedes</i>	
<b>High Performance Implementation of Snow3G Algorithm in Memory Limited Environments</b> .....	160
<i>Vaidyanathan Jairaj, Jaakko Pohjonen, Konstantin Shemyak</i>	
<b>TCP over 6LoWPAN for Industrial Applications: An Experimental Study</b> .....	164
<i>Tiancong Zheng, Ahmed Ayadi, Xiaoran Jiang</i>	
<b>The Effect of Unwanted Internet Traffic on Cellular Phone Energy Consumption</b> .....	168
<i>Ismo Puustinen, Jukka K. Nurminen</i>	
<b>How resistant are SBoxes to Power Analysis Attacks?</b> .....	173
<i>Kean Hong Boey, Maire O'Neill, Roger Woods</i>	
<b>Deeploc: Discreet Indoor People Location Application</b> .....	179
<i>Sergio Lujan, Juan Suardiaz-Muro, Andrés Cabrera-Lozoya, Fernando Cerdan</i>	
<b>eTNet: A Smart Card Network Architecture for Flexible Electronic Commerce Services</b> .....	184
<i>Takeshi Yashiro, M. Fahim Ferdous Khan, So Ito, Masahiro Bessho, Shinsuke Kobayashi, Tomonori Usaka, Noboru Koshizuka, Ken Sakamura</i>	
<b>A Taxonomy of Wireless Sensor Networks with QoS</b> .....	189
<i>Vasco Pereira, Jorge Sá Silva, Jorge Granjal, Ricardo Silva, Edmundo Monteiro, Qiang Pan</i>	
<b>Mobility Assisted Routing in Mobile Ad Hoc Networks</b> .....	193
<i>Kazi Atiqur Rahman, Kemal E. Tepe</i>	
<b>Performance of the Controlled Randomness Protocol on .NET Compact Framework Embedded Systems</b> .....	198
<i>Kyriakos G. Stefanidis, Artemios G. Voyiatzis, Dimitrios N. Serpanos</i>	
<b>OST-Tree: An Access Method for Obfuscating Spatio-Temporal Data in Location Based Services</b> .....	203
<i>Quoc Cuong To, Tran Khanh Dang, Josef Küng</i>	
<b>Extended Handover Keying and Modified IEEE 802.21 Resource Query Approach for Improving Vertical Handoff Performance</b> .....	208
<i>Ahmed H. Zahran, Cormac J. Sreenan</i>	
<b>Beamforming with Partial Channel Knowledge</b> .....	215
<i>Shimi Shilo, Anthony J. Weiss, Amir Averbuch</i>	
<b>A Scheme of H.264/SVC Video Broadcasting Over IEEE 802.11 WLAN</b> .....	220
<i>Young-Hwan Kim, Hae-Ryeon Park, Jung-Bong Suk</i>	
<b>Services Composition based on Next-Generation Service Overlay Networks Architecture</b> .....	225
<i>Christian Makaya, Ben Falchuk, Dana Chee, F. Joe Lin, Subir Das, Manabu Ito, Satoshi Komorita, Tsunehiko Chiba</i>	
<b>Extending Beacon-Enabled IEEE 802.15.4 to achieve Efficient Energy Savings: Simulation-Based Performance Analysis</b> .....	231
<i>Mounib Khanafer, Mouhcine Guennoun, Hussein T. Mouftah</i>	
<b>A Self-stabilizing Algorithm for Stable Clustering in Mobile Ad-hoc Networks</b> .....	236
<i>Junpei Kuroiwa, Yukiko Yamauchi, Weihua Sun, Minoru Ito</i>	
<b>An Algorithm for Restraining the OVFS Codes Shortage in HSDPA</b> .....	243
<i>Jahangir Dadkhah Chimeh, Seyed Mahmoud Mousavinejad, Aziz Mahmoodi</i>	
<b>An Energy Considered Routing Protocol of Free Space Optical Sensor Network</b> .....	247
<i>Rong Xie, Fei Tong, Won-Hyuk Yang, Young-Chon Kim</i>	
<b>Adaptive Fuzzy-MAC for Power Reduction in Wireless Sensor Networks</b> .....	252
<i>Erwing R. Sanchez, Bartolomeo Montrucchio, Laura M. Murillo, Maurizio Rebaudengo</i>	
<b>Wireless Alarming and Routing Protocol for Earthquake Early Warning Systems</b> .....	257
<i>Jens Nachtigall, Jens-Peter Redlich</i>	
<b>Well-Conditioned Sensor Placement for Range-Only Localization</b> .....	263
<i>Kamal Shadi, Hooman Lal Dehghani, Iman Gholampour</i>	

<b>PHY-MAC Cross-Layer Optimized Design for Power Conservation in Wireless Ad Hoc Networks</b> .....	268
<i>Hussein Elattar, Hussein Abdelaty, Salwa H. El Ramly, Mohamed A. Aboul-Dahab</i>	
<b>An Analysis of Web Caching in Current Mobile Broadband Scenarios</b> .....	273
<i>Daniel Catrein, Bernd Löhner, Christoph Meyer, René Rembarz, Thomas Weidenfeller, Ericsson Gmbh</i>	
<b>Design and Evaluation of a Location-based Mobile News Reader</b> .....	278
<i>Solveig Bjørnstad, Bjørnar Tessem, Lars Nyre</i>	
<b>Protecting Privacy while Discovering and Maintaining Association Rules</b> .....	282
<i>Tran Khanh Dang, *josef Küng, Huynh V. Q. Phuong</i>	
<b>PMCMTP's Implementation (in nesC/TinyOS2.x) and Testbed for its Operation Validation</b> .....	287
<i>Jamila Ben Slimane, Ye-Qiong Song, Anis Koubaa, Mounir Frikha, Hugo Cruz-Sanchez</i>	
<b>Topology Dynamics and Network Architecture Performance in Wireless Body Sensor Networks</b> .....	293
<i>Elyes Ben Hamida, Raffaele D'Errico, Beno t Denis</i>	
<b>Implementation of a PUF Circuit on a FPGA</b> .....	299
<i>Mehmet Soybali, Berna Ors, Gokay Saldamli</i>	
<b>Towards an Autonomic Piloting Virtual Network Architecture</b> .....	304
<i>Ilhem Fajjari, Mouna Ayari, Othmane Braham, Guy Pujolle, Hubert Zimmermann</i>	
<b>Powering Wireless Sensor Networks Nodes in Northern Europe Using Solar Cell Panel for Energy Harvesting</b> .....	309
<i>Jakob Gakkestad, Leif Hanssen</i>	
<b>Distribution of Individually Watermarked Content in Peer-to-Peer Networks</b> .....	314
<i>K.G Stenborg, Magnus Herberthson, Robert Forchheimer</i>	
<b>A Novel Attack Model Simulation in DSDV Routing</b> .....	318
<i>Rajbir Kaur, M. S. Gaur, V. Laxmi</i>	
<b>Non-Line-Of-Sight Error Mitigation Technique for Wireless Localization in Micro-Cell Networks</b> .....	323
<i>Hooman Lal Dehghani, Kamal Shadi, Saeed Golmohammadi</i>	
<b>On the Enhanced Ranging Performance for IEEE 802.15.4 Compliant WSN Devices</b> .....	328
<i>H. K. Maheshwari, A. H. Kemp</i>	
<b>OverCovert: Using Stack-Overflow Software Vulnerability to Create a Covert Channel</b> .....	333
<i>Tamer S. Fatayer, Sherif Khattab, Fatma A. Omara</i>	
<b>Optimizing Position Updates for kNN – Is It Worth It?</b> .....	338
<i>Philipp Engel, Florian Gschwandmer, Johannes Martens, Florian Fuchs, Georg Treu</i>	
<b>A High Performance Neurocomputing Algorithm for Prediction Tasks in Wireless Sensor Networks</b> .....	346
<i>Jochen Rust, Xinwei Wang, Rainer Laur, Steffen Paul</i>	
<b>An Agile Service Platform for Telecommunication Environments</b> .....	351
<i>Lajos Lange, Alexander Blotny, Thomas Magedanz</i>	
<b>Term-Rewriting Deobfuscation for Static Client-Side Scripting Malware Detection</b> .....	357
<i>Gregory Blanc, Ruo Ando, Youki Kadobayashi</i>	
<b>On the Partial Ordering of the Discrete Memoryless Channels Arising in Cooperative Sensor Networks</b> .....	363
<i>Paul Cota, Ira S. Moskowitz</i>	
<b>A Connection Oriented Framework for effectively using multicore in the Enterprise</b> .....	368
<i>Suresh Venugopal, Sravan Kumar Desikan</i>	
<b>Dynamic Topology Control for WSNs in Critical Environments</b> .....	375
<i>Zinon Zinonos, Vasos Vassiliou, Christiana Ioannou, Marios Koutroullos</i>	
<b>C-DRIVE: Clustering based on Direction in Vehicular Environment</b> .....	380
<i>N. Maslekar, M. Boussedjra, J. Mouzna, H. Labiod</i>	
<b>Towards Usable Client-centric Privacy Advisory for Mobile Collaborative Applications Based on BDDS</b> .....	385
<i>Mohamed Bourimi, Jorn Ossowski, Dhiah El Diehn . Abou-Tair, Stefan Berlik, Dirar Abu-Saymeh</i>	
<b>Shared Backup &amp; Restore: Save, Recover and Share Personal Information Into Closed Groups of Smartphones</b> .....	391
<i>Vittorio Ottaviani, Alessandro Lentini, Antonio Grillo, Silvia Di Cesare, Giuseppe F. Italiano</i>	
<b>Vulnerability Discrimination Using CVSS Framework</b> .....	396
<i>Laurent Gallon</i>	
<b>Upper Bounds on Network Lifetime for Clustered Wireless Sensor Networks</b> .....	402
<i>Maciej Nikodem, Bartosz Wojciechowski</i>	
<b>A hybrid Approach for Network Selection in Heterogeneous Multi-Access Environments</b> .....	408
<i>Mohamed Lahby, Charkaoui Leghris, Abdellah Adib</i>	
<b>Using OTP with PAKE: An Optimized Implementation of a Synchronization Window</b> .....	413
<i>Moez Ben Mbarka, Louis Granboulan, Francine Krief</i>	
<b>Channel Loss Based Energy Consumption Model for Low-Power Wireless Communications</b> .....	418
<i>Nikola Zogovic, Goran Dimic, Dragana Bajic</i>	

<b>A Path Selection Criterion for Advance Resource Reservation</b> .....	423
<i>Eraldo Silveira E Silva, Jean-Marie Farines, Michel Diaz</i>	
<b>Statistical Analysis of Self-similar Session Initiation Protocol (SIP) Messages for Anomaly Detection</b> .....	428
<i>Neda Hantehzadeh, Anil Mehta, Vijay K. Gurbani, Lalit Gupta, Tin Kam Ho, Gayan Wilathgamuwa</i>	
<b>Pre-allocation of DHCP Leases: a Cross-layer Approach</b> .....	433
<i>Andre Zuquete, Carlos Frade</i>	
<b>Neighbour Discovery for Transmit Power Adjustment in IEEE 802.15.4 using RSSI</b> .....	438
<i>Wilawan Rukpakavong, Iain Phillips, Lin Guan</i>	
<b>Ethernet Access Networks Resources Sharing from a Signalling Perspective</b> .....	442
<i>Maxweel Carmo, Jorge Sá Silva</i>	
<b>An Efficient Paging Scheme for Terminal Mobility using Personal Mobility Management Information in Interworked Fixed and Mobile Networks</b> .....	447
<i>Yun Won Chung</i>	
<b>Femtocell Traffic Offload Scheme for Core Networks</b> .....	452
<i>Jaehoon Roh, Yong Gyoo Lee, Yung-ha Ji, Taehyo Ahn</i>	
<b>A Novel Clustering Scheme for Sensor Networks Based on Intra-cluster Connectivity</b> .....	457
<i>Jiehui Chen, Mariam B. Salim, Mitsuji Matsumoto</i>	
<b>Energy Efficient Data Restoring After Power-Downs for Wireless Sensor Networks Nodes with Energy Scavenging</b> .....	461
<i>Konstantin Mikhaylov, Jouni Tervonen</i>	
<b>On the Security of Two Fuzzy Identity-Based Signature Schemes</b> .....	466
<i>Syh-Yuan Tan, Swee-Huay Heng, Bok-Min Goi</i>	
<b>Ensuring Low Cost Authentication with Privacy Preservation in Federated IMS Environments</b> .....	471
<i>K. Bekara, Y. Ben Mustapha, S. Bouzeffrane, K. Garri, M. Laurent, P. Thoniel</i>	
<b>A Semi-Markovian Individual Model of Users for P2P Video Streaming Applications</b> .....	476
<i>Grégory Bonnet, Ihsan Ullah, Guillaume Doyen, Lionel Fillatre, Dominique Gaiti, Igor Nikiforov</i>	
<b>A Batch Authentication Protocol for V2G Communications</b> .....	481
<i>Huaqun Guo, Yongdong Wu, Hongmei Chen, Maode Ma</i>	
<b>BitTorrent's Mainline DHT Security Assessment</b> .....	486
<i>Juan Pablo Timpanaro, Thibault Cholez, Isabelle Chrisment, Olivier Festor</i>	
<b>mobSim – A Network Mobility Simulation Tool for Very Large-Scale Scenarios</b> .....	491
<i>Pedro Vale Pinheiro, Fernando Boavida</i>	
<b>The Problem Of NIDS Evasion In Mobile Networks</b> .....	496
<i>Michele Colajanni, Luca Dal Zotto, Mirco Marchetti, Michele Messori</i>	
<b>Replication Schemes in Unattended Wireless Sensor Networks</b> .....	502
<i>Domenico Vitali, Angelo Spognardi, Luigi V. Mancini</i>	
<b>Performance Analysis of Node Cooperation with Network Coding in Wireless Sensor Networks</b> .....	507
<i>Hani Attar, Dejan Vukobratovic, Lina Stankovic, Vladimir Stankovic</i>	
<b>Robust Blind and Secure Biometric Watermarking Based on Partial Multi-Map Chaotic Encryption</b> .....	511
<i>Mohamed S. El-Mahallawy, Esam A. Hagrass, Ahmed Zein Eldin, Mohamed Waleed Fakhr</i>	
<b>Augmenting a Webmail Application with Cryptographic Puzzles to Deflect Spam</b> .....	516
<i>Marius Cristea, Bogdan Groza</i>	
<b>Interference Modeling and Relay Selection Issue for Amplify-and-Forward IR-UWB Sensor Networks</b> .....	521
<i>Jiejia Chen, L. Clavier, Yong Xi, Alister Burr, N. Rolland, P. A. Rolland</i>	
<b>Ontology Based Interoperation for Securely Shared Services: Security Concept Matching for Authorization Policy Interoperability</b> .....	526
<i>Ioana Ciuciu, Gang Zhao, David W Chadwick, Quentin Reul, Robert Meersman, Cristian Vasquez, Mark Hibbert, Sandra Winfield, Thomas Kirkham</i>	
<b>Anonymization in Intelligent Surveillance Systems</b> .....	531
<i>Hauke Vagts, Christoph Bier, Jurgen Beyerer</i>	
<b>Managing Access Control in Delay/Disruption Tolerant Networking (DTN) Environment</b> .....	535
<i>Enyenihi Johnson, Haitham Cruickshank, Zhili Sun</i>	
<b>Selective Reprogramming in Sensor Networks</b> .....	540
<i>Daniela Kruger, Dennis Pfisterer, Carsten Buschmann</i>	
<b>RMC-MAC: A Reactive Multi-Channel MAC Protocol for Opportunistic Spectrum Access</b> .....	545
<i>Sonia Fourati, Soumaya Hamouda, Sami Tabbane</i>	
<b>A Hybrid Stateless QoS Approach for Wireless Mobile Ad hoc Networks</b> .....	550
<i>Lyes Khoukhi, Ali El Masri, Dominique Gaiti</i>	
<b>PM<sup>2</sup>PLS: Integrating Proxy Mobile IPv6 and MPLS in Wireless Access Networks</b> .....	555
<i>Carlos A. Astudillo, Oscar J. Calderón, Jesús H. Ortiz</i>	

<b>Hybrid Indoor Positioning Approaches Based on WSN and RFID</b> .....	560
<i>Zhoubing Xiong, Francesco Sottile, Maurizio A. Spirito, Roberto Garello</i>	
<b>COSMIC: A Cooperative MAC Protocol for WSN with Minimal Control Messages</b> .....	565
<i>Ahmed Ben Nacef, Sidi-Mohamed Senouci, Yacine Ghamri-Doudane, Andre-Luc Beylot</i>	
<b>Fusion of Artificial Vision and GPS to Improve Blind Pedestrian Positioning</b> .....	570
<i>Adrien Brilhault, Slim Kammoun, Olivier Gutierrez, Philippe Truillet, Christophe Jouffrais</i>	
<b>Can WiMAX be a Viable Alternative for Wireless Broadband Operators in Europe?</b> .....	575
<i>Marco Araújo A. Manuel De Oliveira Duarte</i>	
<b>A Dual Approach to Detect Pharming Attacks at the Client-side</b> .....	580
<i>Sophie Gastellier-Prevost, Gustavo Gonzalez Granadillo, Maryline Laurent</i>	
<b>Fair and Abuse-free Contract Signing Protocol Supporting Fair License Reselling</b> .....	585
<i>Tarek Gaber, Ning Zhang</i>	
<b>Outdoor Path Loss Measurements of WiMAX at 2.5 GHz in Suburban Environment</b> .....	592
<i>Marco Petracca, Francesco Vatalaro, Annalisa Durantini, Marco Vari</i>	
<b>A Distributed Data Collection Algorithm for Wireless Sensor Networks with Persistent Storage Nodes</b> .....	597
<i>Salah A. Aly, Ahmed Ali-Eldin, H. Vincent Poor</i>	
<b>Steps Towards Autonomous Network Security: Unsupervised Detection of Network Attacks</b> .....	602
<i>Pedro Casas, Johan Mazel, Philippe Owezarski</i>	
<b>A New Approach to Design Graphically Functional Tests for communication Services</b> .....	607
<i>Patrick Wacht, Thomas Eichelmann, Armin Lehmann, Ulrich Trick</i>	
<b>An Ontological Approach to Inter-operation of Mobile Services</b> .....	612
<i>Tara Raafat, Franjo Cecelja</i>	
<b>Evaluation of Path Loss Models at WiMAX Cell- edge</b> .....	616
<i>Mohammed Alshami, Tughrul Arslan, John Thompson, Ahmet Erdogan</i>	
<b>Evaluation of Average Communication Interruption Time in MANETs</b> .....	621
<i>Bernardo Leal, Luigi Atzori</i>	
<b>A Markov Process for Dynamic Spectrum Access</b> .....	626
<i>U. Mir, L. Merghem-Boulahia, M. Esseghir, D. Gaïti</i>	
<b>Several Characteristics of Active/Sleep Model in Wireless Sensor Networks</b> .....	631
<i>Wei Wayne Li</i>	
<b>Architectural Design of Unified Multiplex Communications for One-Time Use of IP Addresses</b> .....	636
<i>Shingo Ata, Hiroshi Kitamura, Masayuki Murata</i>	
<b>Reformulating User's Queries for Intentional Services Discovery Using an Ontology-based Approach</b> .....	640
<i>Kadan Aljoumaa, Saïd Assar, Carine Souveyet</i>	
<b>IPv4/IPv6 Handoff on Lock-Keeper for High Flexibility and Security</b> .....	644
<i>Ahmad Alsadeh, Feng Cheng, Sebastian Roschke, Christoph Meinel</i>	
<b>Self-Stabilizing Passive Replication for Internet Service Platforms</b> .....	650
<i>Koji Hasebe, Kei Yamatozaki, Akiyoshi Sugiki, Kazuhiko Kato</i>	
<b>Distributed Detection of Events for Evaluation of Energy Efficiency in Buildings</b> .....	656
<i>Sergio A. De La Campa, Ana B. Rodr guez-Gonzalez, Javier Ramos, Antonio J. Caamano</i>	
<b>UACML: Unified Access Control Modeling Language</b> .....	662
<i>Nadera Slimani, Hemanth Khambhammettu, Kamel Adi, Luigi Logrippo</i>	
<b>Broadband Video Streaming with Built-in Resiliency</b> .....	670
<i>I. Ali, S. M. Saleh Al-Majeed, S. Moiron, M. Fleury, M. Ghanbari</i>	
<b>Implementation Of Complex Strategies Of Security In Secure Embedded Systems</b> .....	675
<i>Bruno Robisson, Michel Agoyan, S'ebastien Le Henaff, Patrick Soquet, Guillaume Phan, Franck Wajsburt, Pirouz Bazargan-Sabet</i>	
<b>Design of Wireless Sensor System for Neonatal Monitoring</b> .....	680
<i>Wei Chen, Son Tung Nguyen, Sibrecht Bouwstra, Roland Coops, Lindsay Brown, Sidarto Bambang Oetomo, Loe Feijs</i>	
<b>A Chemical Model to enable Context Awareness</b> .....	685
<i>Ahsan Ikram, Nigel Baker, Michael Knappmeyer, Ralf Tönjes</i>	
<b>Securing Communications between Multiple Entities Using a Single TLS Session</b> .....	690
<i>Mohamad Badra</i>	
<b>Agent-Based Approach to Plan Sensors Relocation in a Virtual Geographic Environment</b> .....	694
<i>Nabil Sahli, Nafaa Jabeur, Mohamed Badra</i>	
<b>SLA Management &amp; Monitoring based-eTOM and WS-Composite for IMS networks</b> .....	699
<i>B. Raouyane, M. Errais, M. Bellaïfkih, Daniel Ranc</i>	
<b>Dimensionality Reduction and Noise Removal in Wireless Sensor Networks</b> .....	705
<i>Ehsan Sheybani</i>	
<b>Microwave Autodyne Sensor for Monitoring of Cardiac Rhythm of Mines Workers</b> .....	710
<i>Igor B. Shirokov</i>	

**A Multi Tier Group Location Management Scheme for Multi Interface Mobile Station..... 714**

*Yun Won Chung*

**Author Index**