

**Table of Contents**  
**World Congress on Engineering 2008**  
**WCE 2008**

Preface.....	xxviii
Committees.....	xxix
Abstracts of Invited Lectures.....	liii

**VOLUME I**

**The 2008 International Conference of Computational  
Intelligence and Intelligent Systems**

<b>Three-layered Case-based Reasoning Cycles for Autonomous Virtual Agent Moving Through 3D Virtual Environment</b>	
<i>Haris Supic.....</i>	1
<b>Neural Network Application for High Speed Impacts Classification</b>	
<i>Israel Gonzalez-Carrasco, Angel Garcia-Crespo, Belen Ruiz-Mezcua, and Jose Luis Lopez-Cuadrado.....</i>	6
<b>ACO-FCR: Applying ACO-Based Algorithms to Induct FCR</b>	
<i>H. Alipour, E. Khosrowshahi Asl, M. Esmaili, and M. Nourhosseini.....</i>	12
<b>Complexifying Artificial Neural Networks through Topological Reorganization</b>	
<i>Thomas D. Jorgensen, and Barry Haynes.....</i>	18
<b>Wall Following to Escape Local Minima for Swarms of Agents Using Internal States and Emergent Behaviour</b>	
<i>Mohamed H. Mabrouk, and Colin R. McInnes.....</i>	24
<b>Influence of Ambient Light on the Quality of Laser Digitized Surfaces</b>	
<i>D. Blanco, P. Fernández, E. Cuesta, and C. M. Suárez.....</i>	32
<b>An Artificial Immune Networking Using Intelligent Agents</b>	
<i>S. Chandrasekaran, C. Dinesh, and AL. Murugappan.....</i>	38
<b>Effective Techniques Applying via Genetic Algorithm Approach</b>	
<i>Stefania GALLOVA.....</i>	47
<b>A New Method of Learning Weighted Similarity Function to Improve Predictions of Nearest Neighbor Rule</b>	
<i>M. Zolghadri Jahromi, and E. Parvinnia.....</i>	54

<b>Fuzzy Iterative Learning Control in 2-D Systems</b>	
<i>A. Argha, P. Karimaghaee, M. Roopaei, and M. Zolghadri Jahromi.....</i>	58
<b>Generation of Lyapunov Functions by Neural Networks</b>	
<i>Navid Noroozi, Paknoosh Karimaghaee, Fatemeh Safaei, and Hamed Javadi. ....</i>	61
<b>An Analysis of Hardware Configurations for an Adaptive Weightless Neural Network</b>	
<i>P. Lorrentz, W. G. J. Howells, and K. D. McDonald-Maier.....</i>	66
<b>Early SME Market Prediction using USDNN</b>	
<i>Terry H. Walcott, Dominic Palmer-Brown, and Sin Wee Lee.....</i>	72
<b>A Hybrid Data Mining and Case-Based Reasoning User Modeling System Architecture</b>	
<i>Dr. Dino Isa, Dr. Peter Blanchfield, and Chen Zhi Yuan.....</i>	76
<b>Creating Short-term Stockmarket Trading Strategies using Artificial Neural Networks: A Case Study</b>	
<i>Bruce Vanstone, and Tobias Hahn.....</i>	80
<b>Building Adaptive Emotion-Based Pet Robots</b>	
<i>Wei-Po Lee, Jyun-Wei Kuo, and Pei-Chun Lai.....</i>	85
<b>Information Security Risk Assessment by Using Bayesian Learning Technique</b>	
<i>Farhad Foroughi.....</i>	91
<b>Uncertain Decision Tree Inductive Inference</b>	
<i>S. M. Fakhrahmad, and S. Jafari.....</i>	96
<b>Design an Expert System for Virtual Classmate Agent (VCA)</b>	
<i>S. Fatahi , N. Ghasem-Aghaee, and M. Kazemifard.....</i>	102
<b>New Index Base Iterative Controller</b>	
<i>M. Roopaei, and M. Zolghadri.....</i>	107
<b>A Compact Parameterization for Shape Optimization of Aerofoils</b>	
<i>Damir Vucina, Zeljan Lozina, and Igor Pehnec.....</i>	111
<b>Accessibility Analysis for the Automatic Contact and Non-contact Inspection on Coordinate Measuring Machines</b>	
<i>B. J. Álvarez, P. Fernández, J. C. Rico, and G. Valiño.....</i>	117
<b>Inferential Estimation for a Ternary Batch Distillation</b>	
<i>P. Kaewpradit, P. Kittisupakorn, and I. M. Mujtaba.....</i>	123

# The 2008 International Conference of Computer Science and Engineering

Classification Of Computationally Tractable Weighted Voting Games <i>Haris Aziz, and Mike Paterson.....</i>	129
Understanding Programming Language Semantics For The Complex World <i>Trong Wu.....</i>	135
Interleaving Concealment Method for CELP-Based Coders in Packet Networks <i>Fatiha Merazka.....</i>	141
An Efficient Programmable Logic Device Implementation of the Second- order Extended Physical Addressing <i>Mountassar Maamoun, Abdelhamid Meraghni, and Abdelhalim Benbelkacem..</i>	145
Improvements on Face Detection in Line-Drawings <i>A. Piquer.....</i>	149
Intuitive & Light-Weight Driving Direction on Mobile Phone <i>Apichai Wijakprasert, Satidchoke Phosaard, Wasan Pattara-Atikom, and Weerapong Polnigongit.....</i>	154
Improving Face Recognition Rate by Combining Eigenface Approach and Case-based Reasoning <i>Haris Supic.....</i>	160
Transformation of a Process Business Model to Domain Model <i>Ernesto Suarez, Medardo Delgado, and Elizabeth Vidal.....</i>	165
The Design and Implementation of a Reconfigurable USART IP Core for Embedded Computing With Support for Networks <i>Ali H. El-Mousa, Nasser Anssari, Ashraf Al-Suyyagh, and Hamzah Al-Zubi.</i>	170
Issues in Wireless Sensor Networks <i>Gowrishankar. S , T. G. Basavaraju , Manjaiah D. H, and Subir Kumar Sarkar.</i>	176
Analysis of Facial Expressions from Video Images using PCA <i>Praseeda Lekshmi V., Dr. M. Sasikumar, and Naveen S.....</i>	188
Component Oriented Human Machine Interface for In-vehicle Infotainment Applications <i>Hemant Sharma, Dr. Roger Kuvedu-Libla, and Dr. A. K. Ramani.....</i>	192
Model Checking Behavioral Specification of BPEL Web Services <i>Rongsheng Dong, Zhao Wei, and Xiangyu Luo.....</i>	198
Theoretical Analysis and Overhead Control Mechanisms in MANET: A Survey	

<i>Gowrishankar. S , T.G.Basavaraju , Manjaiah D.H , M. Singh, and Subir Kumar Sarkar.....</i>	204
<b>Context-Aware Payment for Supply Chains: Software Architecture and Formal Verification</b>	
<i>Zahra Zamani, Maryam Bayat, Ali Moeini, and Alireza Motevalian.....</i>	211
<b>Design and Implementation of a Wireless Automatic Meter Reading System</b>	
<i>Tariq Jamil.....</i>	217
<b>Force Directed Graph Drawing Algorithms for Macro Cell Placement</b>	
<i>Meththa Samaranayake , Helen Ji, and John Ainscough.....</i>	222
<b>N-G Approach for Solving the Multiresponse Problem in Taguchi Method</b>	
<i>Abbas Al-Refaie, Ming-Hsien Li, and Chun-Wei Tsao.....</i>	228
<b>Unknown Malicious Identification: an Improved Solution Based on Bayesian Analysis</b>	
<i>Ying-xu. LAI, and Zeng-hui. LIU.....</i>	234
<b>GPS-based Vehicle Tracking System-on-Chip</b>	
<i>Adnan I. Yaqzan, Issam W. Damaaj, and Rached N. Zantout.....</i>	240
<b>Model Based Approach for the Integration of ECUs</b>	
<i>Rajeshwari Hegde, and K S Gurumurthy.....</i>	246
<b>A New Process Model For Reuse Based Software Development Approach</b>	
<i>Jasmine K. S, and Dr. R. Vasantha.....</i>	251
<b>A Simple Approach for Modeling Shapes and Objects with Irregular Boundaries and Cavities by Combining and Interpolating Parametrically Defined Contours</b>	
<i>A. Arokiasamy.....</i>	255
<b>Performance Analysis of Elliptic Curve Cryptography on Reconfigurable Hardware</b>	
<i>Prof. Renu Vig, and Ravi Tandon.....</i>	261
<b>A Device-independent Design Scheme on Interactive Animation and Game</b>	
<i>LI Xin-yu, SONG Ying, HUANG Xia, XIANG Li-sheng, and SHEN Qing.....</i>	265
<b>A Study on Ubiquitous Healthcare System based on LBS</b>	
<i>Jinsoo Ahn, Jungil Heo, Suyoung Lim, and Wooshik Kim.....</i>	270
<b>Discovery of Frequent Closed Itemsets using Reduced Pattern Count Tree</b>	
<i>Geetha M, and R. J. D' Souza.....</i>	274
<b>A PC based System for the Control of an Object Manipulator Movements in an X-Ray Tomograph</b>	
<i>M. Mansour.....</i>	280
<b>Delay and Power Optimization of Sequential Circuits through DJP</b>	

Algorithm	
<i>S. Nireekshan Kumar, and J. Grace Jency Gnannamal.....</i>	283
Optimization of Grover's Search Algorithm	
<i>Varun Garg, and Anupama Pande.....</i>	288

## The 2008 International Conference of Data Mining and Knowledge Engineering

Using A Concept-based User Context For Search Personalization	
<i>Mariam Daoud, Lynda Tamine-Lechani, and Mohand Boughanem.....</i>	293
Maximal Frequent Itemsets Mining Using Database Encoding	
<i>Mohammad Nadimi-Shahraki, Norwati Mustapha, Md Nasir B Sulaiman, and Ali B Mamat.....</i>	299
Detect Climatic Factors Contributing to Dengue Outbreak based on Wavelet, Support Vector Machines and Genetic Algorithm	
<i>Yan WU, Gary LEE, Xiuju FU, and Terence HUNG.....</i>	303
Web as a Tool for Some Diagnostic Problem Solving	
<i>Stefania GALLOVA.....</i>	308
Design of an Augmented and Optimised Hiding Technique and Framework for Privacy Preserving Data Mining	
<i>J. Indumathi, and G. V. Uma.....</i>	315
A Novel Approach for Constructing Conversational Agents using Sentence Similarity Measures	
<i>Karen O'Shea , Zuhair Bandar, and Keeley Crockett.....</i>	321
Transaction-Consistent Global Checkpoints in a Distributed Database System	
<i>Jiang Wu, D. Manivannan, and Bhavani Thuraisingham.....</i>	327

## The 2008 International Conference of Electrical and Electronics Engineering

Concepts and Properties of Controlled Permanent Magnet Drives	
<i>C. Grabner.....</i>	335
Automatic Monitoring of a Vodafone Radiocommunication Base Station	

<i>Francisco António Martins Travassos, and Francisco André Corrêa Alegria. ....</i>	342
<b>A High Breakdown Voltage Two Zone Step Doped Lateral Bipolar Transistor on Buried Oxide Thick Step</b>	
<i>Sajad A. Loan, S. Qureshi, and S. Sundar Kumar Iyer.....</i>	348
<b>Synthesis of Finite Time Stable Backstepping Control Systems</b>	
<i>Navid Noroozi, Paknoosh Karimaghaee, and Fatemeh Safaei.....</i>	353
<b>A Battery Charging Control Strategy for Renewable Energy Generation Systems</b>	
<i>Yong Yin, Xing Luo, Shen Guo, Zude Zhou, and Jihong Wang.....</i>	356
<b>Development of a Mathematical Model for Vane-type Air Motors with Arbitrary N Vanes</b>	
<i>Xing Luo, Jihong Wang, Leonid Shpanin, Nan Jia, Gang Liu, and Alan S. I. Zinober.....</i>	362
<b>Study On Noise Attenuation Of Multi-cylinder Diesel Engine with Resonative Muffler</b>	
<i>Dr. Bankim Bihari Ghosh, Mr. Paritosh Bhattacharya, Rajsekhar Panua, Dr. Prabir Kumar Bose, and Dr. M. Y. Vaijanapurkar.....</i>	368
<b>A Comparison of Induction Motor Speed Estimation using Conventional MRAS and AI-Based MRAS with a Dynamic Reference Model</b>	
<i>Chao Yang, and J. W. Finch.....</i>	375
<b>Modeling and Simulation of the Perdawd CCGS Connected to the Kurdistan Regional Power System of Iraq Using Simulink</b>	
<i>Ibrahim I. Hamarash.....</i>	381
<b>An ASIC Control Circuit for Thermal Actuated Large Optical Packet Switch Array</b>	
<i>Jian-Chiun Liou, and Fan-Gang Tseng.....</i>	386
<b>Study On Noise Attenuation Of Multi-Cylinder Diesel Engine With Existing And Modified Muffler</b>	
<i>Dr. Bankim Bihari Ghosh, Rajsekhar Panua, Mr. Paritosh Bhattacharya, Dr. Prabir Kumar Bose, and Dr. M. Y. Vaijanapurkar.....</i>	392
<b>RF Indoor Intrusion Detection System</b>	
<i>Hua Ye, and Mehran Ektehabi.....</i>	401
<b>An Automated Model Generation Approach for High Level Modelling</b>	
<i>Likun Xia, Ian M. Bell, and Antony J. Wilkinson.....</i>	405
<b>Novel PolSK-OCDMA Transceiver Architecture</b>	
<i>M. M. Karbassian, and H. Ghafouri-Shiraz.....</i>	411
<b>Critical Performance Evaluation of a Photoreceiver for Application in</b>	

## Optoelectronics

<i>A. D. McGrath, and S. M. Vaezi-Nejad</i> .....	416
Pathloss Determination using Okumura-Hata Model and Spline Interpolation for missing Data for Oman	
<i>Z. Nadir, N. Elfadhil, and F. Touati</i> .....	422
Model Reduction of a Perturbative Representation of a Weakly Nonlinear System	
<i>Marissa Condon, and Georgi Grahovski</i> .....	426
Microcontroller Based Instrumentation System for Measurement of Strength of Cementing Medium Used in Dental Restorations: Orthodontic Studies	
<i>Dinesh Singh Rana</i> .....	431
Cyclical Mutation of Stator and Rotor Designs and Their Impact to the Acoustic Behavior of Induction Motor	
<i>C. Grabner</i> .....	435
Velocity Measurement System for Small Caliber Projectiles	
<i>G. S. Gill, and Amod Kumar</i> .....	441
Development of a Tube-ball Coal Mill Mathematical Model Using Particle Swarm Optimization (P. S. O.)	
<i>P. Zachariades , J. L. Wei, and J. Wang</i> .....	446
Automation of a Particle Accelerator Operation Using LabVIEW	
<i>José Lopes, Francisco André Corrêa Alegria, and Luís Redondo</i> .....	452
Analytical Formulation of Dynamic Characteristics of a Diode with Non-linear Contact Characteristics	
<i>Rajiv Ganguly, Biswajit Ghosh, and Manish Kr. Mukherjee</i> .....	458
Synthesis of Complicated Asynchronous Control Circuits Using Template Based Technique	
<i>Sufian Sudeng, and Arthit Thongtak</i> .....	462
Experimental Analysis of Luminescence in Printed Materials	
<i>A. D. McGrath, and S. M. Vaezi-Nejad</i> .....	468
Variable Step LMS Algorithm Using the Accumulated Instantaneous Error Concept	
<i>Khaled F. Abusalem, and Yu Gong</i> .....	474

## Engineering

Effects of Workspace on Engineering Software Projects <i>Faisal A. Abu Rub, and Ayman A. Issa.....</i>	479
Using VRML to Build a Virtual Reality Campus Environment <i>Fahad Shahbaz Khan, Kashif Irfan , Saad Razzaq, Fahad Maqbool, Ahmad Farid, and Rao Muhammad Anwer.....</i>	484
Measurable Quality Characteristics of a Software System on Software Architecture Level <i>S. R. Khayami, A. Towhidi, and K. Ziarati.....</i>	489
Information System Quality Evaluation Based on Audit Processes <i>M. Popa, M. Florescu, and C. Bodea.....</i>	494
Analysis of AutoPlay Feature via the USB Flash Drives <i>Ruhma Tahir, Zara Hamid, and Hasan Tahir.....</i>	497
Impact of Instructional Objectives on e/learning Materials <i>M. Yousefkhani.....</i>	501

## The 2008 International Conference of Information Security and Internet Engineering

A New KEM-Based Generic Construction <i>Neyire Deniz Sarier.....</i>	506
An Improved Simulation Modeling Method Using OOP Language Features <i>K M Rahamatullah, and Dr. M. Mahbubur Rahman.....</i>	514
Secure Digital Image Watermarking Scheme for Copyright Protection and Buyer Fingerprinting <i>Bedi S. S, Rabia Bano, and Shekhar Verma.....</i>	518
SCUR: Secure Communications in Wireless Sensor Networks using Rabbit <i>Ruhma Tahir, Muhammad Younas Javed, Attiq Ahmad, and Raja Iqbal....</i>	523
The Application of System Dynamics for Managing Information Security Insider-Threats of IT Organization <i>Farhad Foroughi.....</i>	528
State-Of-The-Art in Refurbishing-Based Approach for Privacy Preserving Data Mining <i>J. Indumathi, and G. V. Uma.....</i>	532

<b>Worm Analysis through Computer Simulation (WAtCoS)</b>	
<i>Madiah Mohd Saudi, Kamaruzzaman Seman, Emran Mohd Tamil, and Mohd Yamani Idna Idris.....</i>	538
<b>Rule-based Defense Mechanism against Distributed Denial-of-Service Attacks</b>	
<i>Sung-ju Kim, Byung-chul Kim, Jae-yong Lee, Chan-kyou Hwang, and Jae-jin Lee.....</i>	543
<b>Dr. Wheat: A Web-based Expert System for Diagnosis of Diseases and Pests in Pakistani Wheat</b>	
<i>Fahad Shahbaz Khan, Saad Razzaq, Kashif Irfan, Fahad Maqbool, Ahmad Farid, Inam Illahi, and Tauqeer ul amin.....</i>	549
<b>Steganalysis of Reversible Contrast Mapping Watermarking</b>	
<i>Yeh-Shun Chen, Ran-Zan Wang, Yeuan-Kuen Lee, and Shih-Yu Huang.....</i>	555
<b>BioFIM: Multifactor Authentication for Defeating Vehicle Theft</b>	
<i>Hasan Tahir, and Ruhma Tahir.....</i>	558
<b>Efficiency and Security of Some Image Encryption Algorithms</b>	
<i>Marwa Abd El-Wahed, Saleh Mesbah, and Amin Shoukry.....</i>	561
<b>Web Usage Data for Web Access Control (WUDWAC)</b>	
<i>Dr. Selma Elsheikh.....</i>	565
<b>Associating the Authentication and Connection-Establishment Phases in Passive Authorization Techniques</b>	
<i>Muhammad Tariq, M. S. Baig, and M. Tariq Saeed.....</i>	570
<b>Information Asset Valuation Method for Information Technology Security Risk Assessment</b>	
<i>Farhad Foroughi.....</i>	576
<b>EDOWA Worm Classification</b>	
<i>Madiah Mohd Saudi, Emran Mohd Tamil, Siti Aishah Md Nor, Mohd Yamani Idna Idris, and Kamaruzzaman Seman.....</i>	582

## The 2008 International Conference of Parallel and Distributed Computing

<b>Accelerating the Computation of Haralick' s Texture Features using Graphics Processing Units (GPUs)</b>	
<i>Markus Gipp, Guillermo Marcus, Nathalie Harder, Apichat Suratane, Karl Rohr, Rainer König, and Reinhard Männer.....</i>	587

WebDMF: A Web-based Management Framework for Distributed Services <i>George Oikonomou, and Theodore Apostolopoulos.....</i>	593
A Taxonomy for Desktop Grids from Users' Perspective <i>Monica Vladoiu, and Zoran Constantinescu.....</i>	599
Parallel Mining of Frequent Patterns in Transactional Databases <i>S. M. Fakhrahmad, and G. H. Dastghaibi Fard.....</i>	605
Real Time Decision Support for Energy Management <i>D . Y. Raghavendra Nagesh, Sowjanya A, and Dr S. S TulasiRam.....</i>	611
A Comparative Study on the Topological Properties of the Hyper-Mesh Interconnection Network <i>Emad Abuelrub.....</i>	616

## The 2008 International Conference of Signal and Image Engineering

Detection and Tracking of Coronal Mass Ejections (CMEs) by Means of the Watershed Segmentation and Hough Transform <i>Mariusz Nieniewski.....</i>	622
Optimal SVD based Robust Watermarking using Differential Evolution Algorithm <i>V. Aslantas.....</i>	629
An Evaluation of 3D OSEM, and a Comparison with FBP in 99mTC SPECT Images <i>Alzimami K, and Sassi Sand Spyrou NM.....</i>	632
Fuzzy Approach for Restoring Color Images Corrupted with Additive Noise <i>M. Wilscy, and Madhu S. Nair.....</i>	637
Feature Point Detection for Real Time Applications <i>Neeta Nain, Vijay Laxmi, and Bhavitavya Bhadviya.....</i>	643
Face Recognition using PCA and LDA with Singular Value Decomposition(SVD) using 2DLDA <i>Neeta Nain, Prashant Gour, Nitish Agarwal, Rakesh P Talawar, and Subhash Chandra. ....</i>	649
Message Sequence Charts Based Specification of the Communicating Threads to the Verified Image Compression Technique using Concurrent Wavelet Transform	

<i>Kamrul Hasan Talukder, and Koichi Harada.....</i>	653
<b>Hardware Implementation of a Soft Computing Technique for Edge Detection</b>	
<i>Nashaat M. Hussein, and Angel Barriga.....</i>	659
<b>A Fourier Extension Based Algorithm for Impulse Noise Removal</b>	
<i>H. Sahoolizadeh, R. Rajabioun, and M. Zeinali.....</i>	665
<b>Design &amp; Implementation of JPEG2000 Encoder using VHDL</b>	
<i>Kanchan H. Wagh, Pravin K. Dakhole, and Vinod G. Adhau.....</i>	670
<b>Initial Results from a Prototype Large (2m) Ring PET Scanner</b>	
<i>M Monjur Ahasan, and David J Parker.....</i>	676
<b>Optimized Minutiae-Based Fingerprint Matching</b>	
<i>Neeta Nain, Deepak B M, Dinesh Kumar, Manisha Baswal, and Biju Gautham</i>	682
<b>Wavelet Based Exposure Fusion</b>	
<i>Madiha Hussain Malik, S. Asif M. Gilani, and Anwaar-ul-Haq.....</i>	688
<b>Dynamic Thresholding Based Edge Detection</b>	
<i>Neeta Nain, Gaurav Jindal, Ashish Garg, and Anshul Jain.....</i>	694
<b>An FLIR Video Surveillance System to Avoid Bridge-Ship Collision</b>	
<i>Jun Liu, Hong Wei, Xi-Yue Huang, Nai-Shuai He, and Ke Li.....</i>	700
<b>A Novel Wavelet Fusion Method for Contrast Correction and Visibility Enhancement of Color Images</b>	
<i>M. Wilscy, and Jisha John.....</i>	705
<b>A Novel Approach to Calculate Stable Densities</b>	
<i>Mahdi Teimouri, and Hamidreza Amindavar.....</i>	710
<b>An Optimized Knowledge Associated, Storage and Retrieval of Digital X-rays Databases</b>	
<i>Saad Razzaq, Fahad Maqbool, Ahmed Farid, Fahad Shahbaz ,Kashif Irfan, and Anwar M.A. ....</i>	715
<b>Hidden Markov Model Based Classification of Natural Objects in Aerial Pictures</b>	
<i>Mohamed El Yazid Boudaren, Abdenour Labeled, Adel Aziz Boulfekhar, and Yacine Amara.....</i>	718
<b>Robust Block Selection for Watermarking Video Streams</b>	
<i>Tamás Polyák, and Gábor Fehér.....</i>	722
<b>A Projection-based Segmentation Algorithm for Breaking MSN and YAHOO CAPTCHAs</b>	
<i>Shih-Yu Huang, Yeuan-Kuen Lee, Graeme Bell, and Zhan-he Ou.....</i>	727
<b>A GA-based Approach for Parameter Estimation in DT-MRI Tracking</b>	

## Algorithms

<i>L. M. San-Jose-Revuelta, M. Mart n-Fernandez, and C. Alberola-Lopez.</i>	731
<b>Fast and Efficient 3-D Wavelet Based Video Coding Technique</b>	
<i>Athar Ali Moinuddin, Ekram Khan, and Mohammed Ghanbari.....</i>	737

## The 2008 International Conference of Wireless Networks

<b>Implementation of IEEE 802.11e Block Acknowledgement Policies</b>	
<i>Orlando Cabral, Alberto Segarra, and Fernando J. Velez.....</i>	741
<b>Game-Theoretic Modeling for System-wide Performance Optimization at the MAC Layer in Ad-hoc Wireless Networks</b>	
<i>Debarshi Kumar Sanyal, Matangini Chattopadhyay, and Samiran Chattopadhyay..</i>	747
<b>Multi-Hop Simulator for Ad-Hoc IEEE 802.11e</b>	
<i>Joao M. Ferro, and Fernando J. Velez.....</i>	753
<b>Autonomic Group Mobility Model for Mobile Ad hoc Networks</b>	
<i>Thazin Ei, Sacko Diouba, and Prof. Wang Furong.....</i>	758
<b>Game Theoretical Algorithm for Coverage Optimization in Wireless Sensor Networks</b>	
<i>Lun Zhang, Yan Lu, Lan Chen, and Decun Dong.....</i>	764
<b>Optimizing the Block Cipher Resource Overhead at the Link Layer Security Framework in the Wireless Sensor Networks</b>	
<i>Devesh C. Jinwala, Dhiren R. Patel, and Kankar S. Dasgupta.....</i>	770
<b>Configurable Link Layer Security Architecture for Wireless Sensor Networks</b>	
<i>Devesh C. Jinwala, Dhiren R. Patel, and Kankar S. Dasgupta.....</i>	776
<b>Performance Evaluation of the IEEE 802.11 Wireless LAN Standards</b>	
<i>Sarah Shaaban, Dr. Hesham M. El Badawy, Prof. Dr. Attallah Hashad..</i>	781
<b>Mobile Ad Hoc Networks Simulations Using Routing Protocols for Performance Comparisons</b>	
<i>Nadia Qasim, Fatin Said, and Hamid Aghvami.....</i>	787
<b>Incorporate Intelligent Computation into Coverage Optimization for Wireless Sensor Networks</b>	
<i>Lun Zhang, Lan Chen, Yan Lu, and Decun Dong.....</i>	793

Toward Location-based Services using GPS-based Devices	
<i>Monica Vladoiu, and Zoran Constantinescu.....</i>	799
Evaluating Strategy with Grey Theory Utilized in Wireless Sensor Networks	
<i>Lun Zhang, Yan Lu, Lan Chen, and Decun Dong.....</i>	805
Towards Pervasive Computing Security	
<i>L. A. Mohammed.....</i>	810
Dynamic Multiplatform HTML to WML Mobile Converter	
<i>Ayma A. Issa, and Munib A. Qutaishat.....</i>	816

## Appendix

Author Index