

2010 International Conference on Intelligent and Advanced Systems (ICIAS 2010)

**Kuala Lumpur, Malaysia
15 – 17 June 2010**



IEEE Catalog Number: CFP1066C-PRT
ISBN: 978-1-4244-6623-8

TABLE OF CONTENTS

Optimal Design of Protective Current Transformer Using PSO Algorithm	1
<i>Abolfazl Jalilvand, Amir Bagheri</i>	
Optimal Tuning of the PID Controller for a Buck Converter Using Bacterial Foraging Algorithm	6
<i>Abolfazl Jalilvand, Hesam Vahedi, Akbar Bayat</i>	
Real-Time Video Edge Detection with the Memory Access Improvement	11
<i>I. Yasri, N. H. Hamid, V. V. Yap</i>	
DCT Precoded SLM Technique for PAPR Reduction in OFDM Systems	16
<i>Imran Baig, Varnun Jeoti</i>	
Performance Analysis of Fixed Duty Ratio and Adaptive Gate Drive in High Frequency Gate Driver Design	22
<i>N. Z. Yahaya, K. M. Begam, M. Awan, N. H. Rahman</i>	
Load Effects Analysis of Synchronous Rectifier Buck Converter Using Fized PWM Technique	28
<i>K. M. Begam, N. Z. Yahaya, M. Awan, H. Hassan</i>	
Condition Monitoring of Industrial Process Plant Using Acoustic Emission Techniques	33
<i>Mohammed A. A. Elmaleeh, N. Saad, Mohd Awan</i>	
Reconfiguration Technique for Adaptive Embedded Systems	39
<i>I. Skliarova, V. Sklyarov</i>	
A New Low Power Full Adder Cell in CMOS Inverter	45
<i>G. Zandkarimi, K. Navi, H. Mokari</i>	
Signal Integrity Analysis for High Speed Digital Circuit	50
<i>Erica Ting Mei Shang, Lee Sheng, Chyan, Patrick Sebastian</i>	
Sensor Integration in a Wireless Sensor Network System for Environmental Monitoring System	56
<i>Alvindarjit Singh, Lee Sheng Chyan, Patrick Sebastian</i>	
Control Systems of a Turntable and Antenna Positioning Device in an Open Area Test Site	61
<i>Ignatius Agung Wibowo, Mohammad Zarar Bin Mohd Jenu, Khairu Al-Amin Bin Ibrahim, Fazliana Binti Abu Bakar</i>	
Simulation and Design of A DC-DC Synchronous Converter by Intelligent Optimization Techniques	65
<i>K. S. Rama Rao, Choon-Keat Chew</i>	
A Performance Comparison Study on Multiplier Designs	71
<i>Chris Y. H. Lee, Lo Hai Hiung, Sean W. F. Lee, Nor Hisham Hamid</i>	
Discrete Wavelet Packet Transform Based Multiresolution Spectrum Sensing Using Cyclostationary Feature Detector	77
<i>Bakhit Amine Adoum, Alfateh M. Alhassan Mossa, Varun Jeoti</i>	
Improvement of Ground to Satellite FSO Link Performance Using Transmit Diversity in Weak Atmospheric Turbulence	83
<i>Hemani Kaushal, V. K. Jain, Subrat Kar</i>	
Recursive Linear Network Modeling for Detecting Gas Leak	89
<i>Afffi Bin Md Akib, Nordin Bin Saad, Vijanth Asirvadam</i>	
The CCSRR Influences towards Circular Microstrip Antenna	95
<i>A. A. M. Ezanuddin, F. Malek, P. J. Soh</i>	
Optimization of Space Domes Using Modified Binary Particle Swarm Method (Modified BPSO)	99
<i>Ghader Bagheri, Asghar Rasouli</i>	
Comparative Assessment of Feed-forward Schemes with NCTF for sway and trajectory control of a DPTOC	104
<i>M. A. Ahmad, R. M. T. Raja Ismail, M. S. Ramli, N. Hambali</i>	
Measurement of Pyramidal Microwave Absorbers Using RCS Methods	110
<i>Normikman Hassan, Hasnain Abdullah, Mohd Fareq Abd Malek, Mohd Nasir Taib, Wan Khairuddin Wan Ali, Soh Ping Jack, Azremi Abdullah Al-Hadi, Wee Fwen Hoon</i>	
Curvelet Based Feature Extraction Method for Breast Cancer Diagnosis in Digital Mammogram	115
<i>Mohamed Meselhy Eltoukhy, Ibrahima Faye, Brahim Belhaouari Samir</i>	
Genetic Algorithm in Evaluating Insulation Model Parameters	120
<i>Amidedin Mousavi</i>	
Development of Lumped-Input Access System	124
<i>Ahmad Yusairi Bani Hashim, Nur Asshafee' T Muhd Zain, Ruzaidi Zamri, Adnan Rachmat Anom Besari</i>	
Application of Particle Swarm Optimization and its Variants to Interline Power Flow Controllers and Optimal Power Flow	129
<i>Khalid H. Mohamed, K. S. Rama Rao, Khairul Nisak Bt Md. Hasan</i>	

Nonlinear Controller and Estimator Design of a CMOS-MEMS Nano-Newton Force Sensor	135
<i>Mohd Haris Md Khir, Thanawit Pornthanomwong, Robert N. K. Loh, Hongwei Qu</i>	
Image SNR Estimation Using The Autoregressive Modeling	141
<i>Nidal Kamel, Samir Kafa</i>	
Joint and Marginal Probability Analyses Of Markov Random Field Networks for Digital Logic Circuits	146
<i>Jahanzeb Anwer, Usman Khalid, Narinderjit Singh, Nor H. Hamid, Vijanth S. Asirvadam</i>	
Determination of Composite Power System Expansion Planning	150
<i>Nor Fadhilawati Abd Ghani, Muhammad Murtadha Othman, Siti Rohani Kasim, Ismail Musirin, Azah Mohamed, Aini Hussain</i>	
Perceptual Encryption of JPEG Compressed Images Using DCT Coefficients and Splitting of DC Coefficients into Bitplanes	155
<i>Muhammad Imran Khan, Varun Jeoti, Muhammad Asif Khan</i>	
Model Predictive Control Using ARX Model for Steam Distillation Essential Oil Extraction System	161
<i>Nazurah Tajjudin, Nurlaila Ismail, M. H. Fazalul Rahiman, Mohd Nasir Taib</i>	
A Power System Risk Assessment Using Bootstrap Technique	166
<i>Siti Rohani Kasim, Muhammad Murtadha Othman</i>	
Application of Fuzzy PD Controller with Smith Predictor for Glycerin Bleaching Temperature Control	172
<i>Zakariah Yusuf, Zuriati Janin, Mohd Nasir Taib</i>	
A Fast Computational Method for the Available Transfer Capability Assessment	177
<i>Stendly Busan, Muhammad Murtadha Othman, Ismail Musirin, Azah Mohamed, A. Hussain</i>	
Geophysical Inversion Using Radial Basis Function	183
<i>Angus Arif, Vijanth S. Asirvadam, M. N. Karsiti</i>	
Fuzzy logic Control for IPFC for Damping Low Frequency Oscillations	188
<i>Alivelu M. Parimi, Irraivan Elamvazuthi, Nordin Saad</i>	
Performance Analysis of M-ary Digital Modulation Techniques over Nakagami-m and Rician Fading Environment with Maximal Ratio Combining Diversity	193
<i>James Osuru Mark, Brahim Belhaouri Samir</i>	
A Novel Seed Based Post Modulation Interleaver: Design and Analysis	199
<i>Muhammad Asif Khan, Muhammad Asim, Varun Jeoti, Rana Shahid Manzoor</i>	
A Subspace Approach with Pre-whitening for Measurements of Latencies in Visual Evoked Potentials	205
<i>Mohd Zuki Yusoff, Nidal Kamel</i>	
Labeling Blob Using Dual Cooperative Camera	211
<i>Thasprabu Ramasamy, Vijanth Asirvadam, Patrick Sebastian</i>	
The Relevance of Universal Metrics in Relation to Human Aesthetic Perception	216
<i>Azlan Iqbal</i>	
HERF: A Hybrid Energy Efficient Routing Using a Fuzzy Method in Wireless Sensor Networks	222
<i>Zohre Arabi</i>	
Application of Bhattacharyya Distance as a Dissimilarity Index for Automated Prediction of Epileptic Seizures in Rats	228
<i>M. Niknazar, B. Bosoughi Bahdat, M. B. Shamsollahi, M. Sayyah</i>	
Hardware Implementation of an Optimized Processor Architecture for SOBEL Image Edge Detection Operator	233
<i>Zahraa Elhassan M. Osman, Fawnizu Azmadi Hussin, Noohul Basheer Zain Ali</i>	
Performance of a PLC-based Hybrid Fuzzy Controller for PWM-driven Variable Speed Drive with Constant V/Hz Ratio	237
<i>Muhammad Arrofiq, Nordin Saad, Mohd Noh Karsiti</i>	
Multi-Objective Evolution and Hinton Analysis of Minimal Neural Control Structures in an Autonomous Wheeled Robot for RF-Localization Behaviors	243
<i>Kim On, Chin Teo, Jason Teo</i>	
Binary Pulse Position Modulation Simulation System in Free Space Optical Communication Systems	249
<i>N. Tahir, N. Mohamad Saad, B. B. Samir, V. K. Jain, S. A. Aljunid</i>	
Cooperative Spectrum Sensing and Signal Detection in Cognitive Radio	253
<i>Nasrullah Armi, Naufal M. Saad, M. Zuki, Y. Muhammad Arshad</i>	
Application of TCSC for Enhancement of ATC with PTDF in Power Transmission System	258
<i>R. Srinu Naik, K. Vaisakh, K. Anand</i>	
Study of Bubble Flow in an Air-Water Two-Phase Flow by Using Electrical Capacitance Tomography	264
<i>Areeba Shafquet, I. Ismail, Mohd Noh Karsiti</i>	
Extract Information of Polarization Imaging from Local Matching Stereo	270
<i>Mohammad Iqbal, Olivier Morel, Fabrice Meriaudeau</i>	

Statistical Features-ANN Recognizer for Bivariate Process Mean Shift Pattern Recognition	276
<i>Ibrahim Masood, Adnan Hassan</i>	
Modeling and Simulation of a Moving-Coil Linear Generator	282
<i>Imran Fazal, Mohd Noh Karsiti, Sainful A. Zulkifli, Taib Ibrahim, K. S. Rama Rao</i>	
Design of a Reconfigurable FFT Processor Using Multi-objective Genetic Algorithm	287
<i>Pang Jia Hong, Nasri Sulaiman</i>	
Improving Accuracy of Artificial Neural Networks for Credit Scoring Models Using Voting Algorithm	292
<i>P. Pazhoheshfar, A. Azadeh, M. Saberi</i>	
Identification and Analysis of Operating Modes of Single-Phase Semi-Converter Fed Battery Charging Circuits Using Symmetrical Angle Control Scheme- A Monograph	296
<i>R. Karthigaivel, N. Kumaresan, N. Ammasaigounden, G. Meena Devi</i>	
An Adaptive Network Based Fuzzy Inference System-Fuzzy Data Envelopment Analysis for Gas Consumption Forecasting and Analysis: The Case of South America	302
<i>A. Behrousnia, M. Saberi, A. Azadeh, S. M. Asadzadeh, P. Pazhoheshfar</i>	
Capacitive Variations Study of Fish, Cow and Pig Meat	308
<i>Almur Abdelkreem Saeed Rabih, Mumtaj Begam Kasim Rawther, Taib Bin Ibrahim</i>	
Camera Sensor Network Localization Using FPGA	312
<i>Lina Noaman Elkhatib, Fawnizu Azmadi Hussin, Patrick Sebastian</i>	
Microsoft WoThe Evaluation of Cyclostationarity-Based Spectrum Sensing in Multipath Fading Channel	318
<i>Alfateh M. Mossa, Varun Jeoti</i>	
Spectral Clustering Approach with Sparsifying Technique for Functional Connectivity Detection in the Resting Brain	324
<i>Mahdi Ramezani, Amin Heidari, Emad Faternizadeh, Hamid Soltanian-Zadeh</i>	
Steady-State Bumpless Transfer MPC using External Feedback of Manipulated Variables	329
<i>Tri Chandra, S. Wibowo, Nordin Saad</i>	
A RTOS for Educational Purposes	335
<i>Mohamed Tag Elsir, Patrick Sebastian, Yap Vooi Voon</i>	
Video Localization Using Array of Microphones	339
<i>Yasir Salih, Patrick Sebastian, Yap Vooi Voon</i>	
Optimal Placement of Piezoelectric Actuator for Active Vibration Control of Flexible Plate	343
<i>M. R. Safizadeh, I. Z. Mat Darus, M. Mailah</i>	
Calculating the Frequency Modes of Flexible Square Plate using Finite Element and Finite Difference Methods	349
<i>M. R. Safizadeh, I. Z. Mat Darus, M. Mailah</i>	
Failure Detection and Classification of Circular Sheets through the Methods of Perceptron Neural Network, Ivq and Neurofuzzy using Matlab and Fuzzytech Software	353
<i>Mohammad Saber Iraj, Abdol Hamid Eshragh Jahromi, Azam Tosinia</i>	
Microwave FET Amplifier Stability Analysis using Geometrically-Derived Stability Factors	359
<i>Syuhaimi Kassim, Fareq Malek</i>	
A New Approach for Accurate Estimation of Capacity Benefit Margin (CBM)	364
<i>Nurulazmi Bin Abd Rahman, Muhammad Murtadha Othman, Ismail Musirin, Azah Mohamed, Aini Hussain</i>	
The Effects of HPA on OFDM System Based on Dual- Tree Complex Wavelet Transform (DTCWT)	370
<i>Mohamed H. M. Nerma, Varun Jeoti, Nidal S. Kamel</i>	
A Wireless Webcam-based Robotic Vision System	374
<i>S. M. Low</i>	
Novel Code-Construction of High Rate (3, k) Regular LDPC Codes	378
<i>Silva Anggraeni, Varun Jeoti</i>	
A Numerical Method for Solving Fuzzy Linear System	384
<i>A. Lazim, A. R. Nur Hakimah</i>	
Web-based Laboratory Equipment Monitoring System using RFID	389
<i>Mohd Helmy A. Wahab, Herdawatie A. Kadir, Zarina Takiran, Razali Tomari, Ariffin A. Mutalib, M. Farhan M. Mohsin, Mohd. Nazrul Effendy Mohd Idrus</i>	
Optimal Conductor Selection for Agricultural Distribution System - A Case Study	394
<i>N/a</i>	
Smart Parking Reservation System using Short Message Services (SMS)	400
<i>Noor Hazrin Hany Mohamad Hanif, Mohd Hafiz Badiozaman, Hanita Daud</i>	
Use of High Permittivity Ceramic (block) in Small Antenna Design	405
<i>Rana Arsian Ali Khan</i>	
Biased Random Walk Based Routing for Mobile Ad hoc Networks	411
<i>Kedir Mohammed Adal, Brahim Belhaouri Samir, Noohul Basheer Zain Ali</i>	

Development of a Remote Access Control Laboratory using xPC Target and Virtual Reality Modeling Language	417
<i>Ka Wai Lee, Nguyen-Vu Truong, Brad Rhodes, James McLaren, Liuping Wang</i>	
Solid Waste Monitoring System Integration based on RFID, GPS and Camera	423
<i>Maher Arebeyl, M. A. Hannanl, Hassan Basri, R. A. Begum, Huda Abdullah</i>	
Data Acquisition and Control System for On-line Measurement and Analysis of Complex Flow Fields	428
<i>Hussain H. Al- Kayiem</i>	
Visualization of High Dimensional Data using Similarity-Dissimilarity Plot	434
<i>Muhammad Arif</i>	
Vision Based Human Activity Tracking Using Artificial Neural Networks	440
<i>M. K. Fiaz, B. Ijaz</i>	
Determination of Boundary Values of Excitation Capacitance and Minimum Load Impedance for Wind-Driven SEIGs	445
<i>M. Senthil Kumar, N. Kumaresan, R. Karthigaivel, M. Subbiah</i>	
Adaptive Image Scaling Based on Local Edge Directions	451
<i>Yen-Tai Lai, Chao-Feng Tzeng, Hung-Chu Wu</i>	
An Algorithm for Vehicle Detection and Tracking	455
<i>Muzaffar Djalalov, Humaira Nisar, Yasir Salih, Aamir Saeed Malik</i>	
Detection of an LTE Signal Based on Constant False Alarm Rate Methods and Constant Amplitude Zero Autocorrelation Sequence	460
<i>Marjan Mazrooei Sebdani, M. Javad Omid</i>	
Hybrid Learning Fuzzy Approach to Function Approximation	466
<i>Chunshien Li, Tsunghan Wu, Tai-Wei Chiang, Jhao-Wun Hu</i>	
Decentralized Fuzzy Controlling for Target Classification Using Wireless Sensor Networks	472
<i>Yahya M. Tashtoush, Abed-Alkareem Al-Enizy</i>	
Shape-based Road Sign Detection and Recognition for Embedded Application Using MATLAB	478
<i>Siti Sarah Sallah, Fawnizu Azmadi Hussin, Mohd Zuki Yusoff</i>	
Bluetooth Compatible Wideband Sierpinski Patch Antenna and Receiving Front End for TV Reception in Vehicles	483
<i>W. M. Lee, Varun Jeoti</i>	
PAPR Analysis of DHT-Precoded OFDM System for M-QAM	488
<i>Imran Baig, Varun Jeoti</i>	
Feed Back Channel Usage Reduction In Distributed Video Coding	492
<i>A. Elamin, Varun Jeoti, Samir Belhouari</i>	
Multidimensional Minimization Training Algorithms for Steam Boiler Drum Level Trip Using Artificial Intelligent Monitoring System	496
<i>Firas Basim Ismail Alnaimi, Hussain H. Al-Kayiem</i>	
(5, k) Regular LDPC Codes using Novel Code-Construction	502
<i>Silvia Anggraeni, Varun Jeoti</i>	
Design and Development of an Eye Surgery Simulator	508
<i>C. K. Lam, K. Sundaraj</i>	
Human Motion Tracking of Athlete Using Optical Flow & Artificial Markers	512
<i>K. F. Sim, K. Sundaraj</i>	
Performance of Radial Basis Function and Support Vector Machine in Time Seried Forecasting	516
<i>Mazlina Mamat, Salina Abdul Samad</i>	
Identifying Corners of Clothes using Image Processing Method	520
<i>Yew Cheong Hou, Khairul Salleh Mohamed Sahari</i>	
ACO-MTS: A New Approach for Multiprocessor Task Scheduling Based on Ant Colony Optimization	525
<i>H. R. Boveiri</i>	
A new Doppler Spread Estimation Algorithm Based on Zero Crossings of the Auto-correlation	530
<i>Gassan Altag Ali, Shahid Manzoor, Varun Jeoti</i>	
A Capacitive Discrimination of Slaughtered and Slaughtered Sheep and Goat Meat	535
<i>Roaa Mohmmad, Taib Ibrahim, Mumtaj Begam, Abdallah Belal Adam</i>	
Analysis and Evaluation of Real-Time and s-Domain Model of A DC Servomotor	540
<i>Oyas Wahyunggoro, Nordin Saad</i>	
Segmentation of Tuberculosis Bacilli in Ziehl-Neelsen-Stained Tissue Images based on K-Mean Clustering Procedure	545
<i>M. K. Osman, M. Y. Mashor, Z. Saad, H. Jaafar</i>	
Modeling and Characterization of Electrostatically actuated CMOS-MEMS Resonator for Magnetic Field Sensing	551
<i>Farooq Ahmad, John Ojur Dennis, Nor Hisham Hamid</i>	

Adaptive Modulation for OFDM Based Multi-hop Wireless Networks	555
<i>Maryam Najmafshar, Vahid Tabatabavakili</i>	
Adaptive Modulation for OFDM Based	559
<i>Wan Amirfaiz Bin Wan Daud, W. Faizura, M. Azmi Adly, Irraivan Elamvazuthi, Mumtaj Begam</i>	
Feasibility Study of Radio Links Using Evaporation Duct over Sea off Malaysian Shores	563
<i>Asif Iqbal, Varun Jeoti</i>	
Time-Current Characteristic Measurement of Overcurrent Relay in Power System using Multilayer Perceptron Network	568
<i>M. A. Mohamad Idin, M. K. Osman, N. A. Mohd Napiah, Z. Saad, K. A. Ahmad, S. Omar</i>	
nth Degree Polynomials Joint Angle Path by Approximation of Inverse Kinematics Data using Genetic Algorithm	573
<i>Affiani Machmudah, Setyamartana Parman, Azman Zainuddin</i>	
Selection of Network Architecture and Input Sensitivity Analysis for a Neural Network Energy Prediction Model	579
<i>M. J. Ismail, R. Ibrahim</i>	
Improved NCTF Control Method for a Two Mass Point-To-Point Positioning System	585
<i>Fitri My, Wahyudi, R. Akmelawati, Andika A. Wijaya</i>	
Cardiotocograph Parameter Estimation Using MATLAB Programming	591
<i>Shahad Nidhal Al-Yousif, Mohd A. Mohd Ali</i>	
Design and Kinematic Analysis of Biped Robot	594
<i>M. Azmi Adly, W. Amirfaiz, W. Faizura, Irraivan Elamvazuthi, Mumtaj Begam</i>	
Fundamental Modeling and Simulation of a Binary Continuous Distillation Column	599
<i>H. S. Truong, I. Ismail, R. Razali</i>	
Comparative Analysis of Filtering Techniques for Ultrasound Images of Bone Fracture	604
<i>Muhammad Luqman Bin Muhd Zain, Irraivan Elamvazuthi, Mumtaj Begam</i>	
Modeling and Simulation of a Multi-Fingered Robot Hand	608
<i>Wan Faizura Binti Wan Tarmizi, M. Azmi Adly, W. Amirfaiz, Irraivan Elamvazuthi, Mumtaj Begam</i>	
Two-step Error Concealment Method for Wavelet Video Coding in Wireless Network	612
<i>Sunmi Kim, Hirokazu Tanaka, Takahiro Ogawa, Miki Haseyama</i>	
Vision-Based Flame Analysis Using Motion and Edge Detection	618
<i>Suzilawati Mohd Razmi, Nordin Saad, Vijanth Sagayan Asirvadam</i>	
ZigBee-GSM Based Automatic Meter Reading System	622
<i>Aryo H. Primicanta, Mohd Yunus Nayan, Mohammad Awan</i>	
ANFIS Identification Model of an Advanced Process Control (APC) Pilot Plant	627
<i>Mohammad Adnan Baloch, I. Ismail, Noor Hazrin Hany Binti Mohamad Hanif, Taj M. Baloch</i>	
Five-Class Finger Flexion Classification Using ECoG Signals	632
<i>Soheila Samiee, Sepideh Hajipour, Mohammad Bagher Shamsollahi</i>	
A Novel Match-line Selective Charging Scheme for High-Speed, Low-Power and Noise-Tolerant Content-Addressable Memory	636
<i>M. M. Hasan, A. B. M. H. Rashid, M. M. Hussain</i>	
Integrated Scheduling and Configuration Caching in Dynamically Reconfigurable Systems	640
<i>Ali Ahmadinia</i>	
Recognition of Facial Expression using Haar-like Feature Extraction Method	646
<i>M. Satiyan, R. Nagarajan</i>	
A 4.23-bit, 12.5 GS/s Comparator for High Speed Flash ADC in BiCMOS Technology	650
<i>M. J. Taghizadeh Marvast, M. A. Mohd Ali</i>	
Comparative Study of Marker-Based Camera Tracking Using Extended and Unscented Kalman Filters	654
<i>F. Ababsa</i>	
PC Based Sweep Signal Generator	659
<i>Salina Mohman, Hamzah Mohamad</i>	
The Effect of DVR Location for Enhancing Voltage Sag	664
<i>Rohanim Ibrahim, Ahmed M. A. Haidar, Zahim M. Herbert Iu</i>	
Current Issues and Challenges of MIMO Antenna Designs	668
<i>Atif Jamil, Mohd Zuki Yusoff, Noorhana Yahya</i>	
Mobility Management in Wireless Networks Using Power Aware Routing	673
<i>S. Smys, G. Josemin Bala, S. Jennifer</i>	
Introducing SKIP Mode in Transform Domain Distributed Video Coding	678
<i>Elamin, Varun Jeoti, Samir Belhouari</i>	
Autonomous Market-Based Multi-Robot Cooperation	682
<i>M. Tahir Khan, T. Imanuel, C. W. De Silva</i>	

Application of Hierarchical Control in Generalized Predictive Control	688
<i>Mohammad Hadi Rezaei, Parviz Jabehdar Maralani</i>	
Modeling Cardiac Signal as Tomographic Mapping	693
<i>Noor Anis Atiqah Mohd Khuzi, Vijanth Sagayan Asirvadam, Lila Iznita Izhar</i>	
Generation of Medical Atlas from Brain MR Images through Segmentation	697
<i>Hema P. Menon, Majo John, K. A. Narayanankutty</i>	
A Novel Pilot-based Frequency Offset Compensation Method in MIMO-OFDM Systems	703
<i>Elnaz Ershadi, Hamidreza Bakhshi</i>	
Parameters Suitability for Changing the Search Behavior in Adaptive GA	708
<i>Farhad Nadi, Ahamad Tajudin Khader</i>	
On the Performance Analysis of the Extended Balanced Space-Time Block Coding	714
<i>Ali Eksim, Mehmet E. Celebi</i>	
A Scheme for Adaptive Web Caching Based on Multi Level Object Classification	719
<i>G. P. Sajeev, M. P. Sebastian</i>	
Performance Enhancement of Wireless Sensor Nodes for Environmental Applications	725
<i>Muhammad Arshad, Nidal Kamel, Naufal M. Saad, Nasrullah Armi</i>	
A Simple Approach for Text Segmentation in Images based on Curvelet Transform	730
<i>Mustafa A. M. Doma, Ibrahima Faye, Varun Jeoti</i>	
3D Shape Recognition Using Wavelet Transform Based on Ellipsoid	735
<i>Asma Khatun, Wang Yin Chai, Rabiul Islam, Dnf Awang Iskandar</i>	
Effects of Conformal Coatings on the Corrosion Rate of PCB-based Multielectrode-Array-Sensor	741
<i>Aysha Salman, Zainal Arif Burhanudin, Nor Hisham Hamid</i>	
Modeling of Reformer Tube Metal Temperature	745
<i>Muhammad Asraf Bin Abdul Rahim, Rosdiazli Bin Ibrahim</i>	
Development and Implementation of Fuzzy Logic Controller for Flow Control Application	751
<i>Elangeshwaran Pathmanathan, Rosdiazli Ibrahim</i>	
State Estimation using Constructed Jacobian (SE CJ) Embedded with UPFC	757
<i>N. M. Nor, R. Jegatheesan</i>	
Robust H_{∞} Output Feedback Controller Design for TS Fuzzy Chaotic Systems	763
<i>Arash Golabi, Mohammad Taghi Hamidi Beheshti</i>	
Detection of Facial Changes for ICU Patients using KNN Classifier	769
<i>Muhammad Naufal Mansor, Sazali Yaacob, R. Nagarajan, Lim Sin Che, M. Hariharan, Muhd Ezanuddin</i>	
Partial Iris Image Recognition Using Wavelet Based Texture Features	774
<i>Rabiul Islam, Wang Yin Chai, Asma Khatun</i>	
An Investigation to Obtain a Simple Mobile Phone Interface for Older Adults	780
<i>Suziah Sulaiman, Intan Suriany Sohaimi</i>	
A Case Study for Reliability-Aware in SoC Analog Circuit Design	784
<i>Mohd Azman Abdul Latif, Noohul Basheer Zain Ali, Fawniyu Azmadi Hussin</i>	
Effective Weighted Bias Fuzzy C-Means in Segmentation of Brain MRI	790
<i>Sr. Kannan, R. Pandiyarajan, S. Ramathilagam</i>	
Design and Development of a DC-DC Boost Converter with Constant Output Voltage	796
<i>S. Masri, P. W. Chan</i>	
Effects of Output Low Impedance Termination to Linearity of GaAs HBT Power Amplifier	800
<i>Koh Minghao, Grant A. Ellis, Teoh Chin Soon</i>	
Prototype for Indoor Localization Based on MultiAgent System	804
<i>A. R. Neves, L. T. Maia, C. G. Ralha, R. P. Jacobi</i>	
Speed and Angle Estimation of Mobile Terminal in Distributed Antenna Systems	808
<i>Gassan Altag Ali, Shahid Manzoor, Varun Jeoti</i>	
Fuzzy Logic based Vertical Handover Algorithm between LTE and WLAN	813
<i>Asif Aziz, Safdar Rizvi, N. M. Saad</i>	
Optimizations in Vertical Handoff Decision Algorithms for Real Time Services	817
<i>Safdar Rizvi, Asif Aziz, N. M. Saad</i>	
Toward an Analysis of Energy Consumption in Multihop Wireless Sensor Networks	821
<i>Azlan Awang, Xavier Lagrange, David Ros</i>	
System-level Modeling of a Reconfigurable System on Chip for Wireless Sensor Networks Applications	827
<i>Gilmar S. Besserra, Jose Edil G. De Medeiros, Heider Marconi G. Madureira, Juan F. Eusse, Joao Lucas De C. Carneiro, Ricardo P. Jacobi, Jose Camargo Da Costa</i>	
Author Index	