# ICIAS2007

**International Conference on Intelligence and Advance Systems**
**25th - 28th November 2007**
**KL Convention Center, Kuala Lumpur, Malaysia**










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## Conference Tracks

- Artificial Intelligence
- Biomedical Systems
- Communication Systems
- Image Processing and Multimedia Systems
- Neural Network Systems
- Nonlinear Circuit and Systems
- Power Electornic and Power Systems
- Sensory and Control Systems
- Signal Processing
- VLSI and Embedded Systems
- Wavelet and Filter Banks

## Artificial Intelligence

### Optimisation of Fermentation Process using Data Mining Techniques

Abdul Sahli Fakharudin (Universiti Malaysia Pahang, Malaysia)

**Paper ID** 1569056059
Poster presentation

### Thermal Diffusivity Measurements of Dental Resin using Photoacoustic Effect

Achamma Kurian (Mahatma Gandhi University, India)

**Paper ID** 1569056237
Oral presentation

### Intelligent Credit Risk Evaluation System using Evolutionary-Neuro-Fuzzy Scheme

Adel Lahsasna (University of Malaya, Malaysia)

**Paper ID** 1569055969
Oral presentation

### A Novel Map-matching Algorithm to Improve Vehicle Tracking System Accuracy

Agung Dewandaru (Universiti Teknologi PETRONAS, Malaysia)

**Paper ID** 1569056393
Oral presentation

### Reactive power planning in Distribution Systems using A Reinforcement learning method

Amir Hesami (Shiraz Azad University , Iran)

**Paper ID** 1569051689

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**Development of Multilayer Neural Network For Real Time Temperature Control System**

Arjun Ghatule (Bharati Vidyapeeth University, India)

**Paper ID** 1569056367
Oral presentation

**an experience improving intrusion detection systems false alarm ratio by utilizing honeypot**

Babak Khosravifar (Concordia University, Canada)

**Paper ID** 1569056401
Poster presentation

**Combining Image Features for Image Classification**

Baharum Baharudin (Universiti PETRONAS, Malaysia)

**Paper ID** 1569060329
Poster presentation

**Visual-Based Fuzzy Navigation System For Mobile Robot: Wall And Corridor Follower**

Balza Achmad (Universiti Teknologi PETRONAS, Malaysia)

**Paper ID** 1569056081
Oral presentation

**Mining Event Sequence Pattern on Vector-based Spatiotemporal**

Barkah Widodo (Universiti Teknologi PETRONAS, Malaysia)

**Paper ID** 1569060311
Oral presentation

**Recombinative CLA-EC**

Borna Jafarpour (Amir Kabir University of Technology, Iran)

**Paper ID** 1569055067
Oral presentation

**A Hybrid Method for Optimization (Discrete PSO + CLA)**

Borna Jafarpour (Amir Kabir University of Technology, Iran)

**Paper ID** 1569055737
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**Text Independent Speaker Identification Using Gaussian Mixture Model**

Chee-Ming Ting (Universiti Teknologi Malaysia, Malaysia)

**Paper ID** 1569055141

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**GDAT - A Collection of Software Tools on Grey-Based Approaches Supported by MATLAB**

Daisuke Yamaguchi (Okayama University, Japan)

**Paper ID** 1569052179
Oral presentation

**Corporate Credit Rating Method With Heterogeneous Information**

Dan Meng (Southwestern University of Finance and Economics, P.R.China)

**Paper ID** 1569056327
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**An HMM-based Online Recognition System for Farsi Handwritten Words**

Farhad Faradji (Amir Kabir University of Technology, Iran)

**Paper ID** 1569055515
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**Analysis and Simulation of the Single-Machine Infinite-Bus with Power System Stabilizer and Parameters Variation Effects**

Ghazanfar Shahgholian (Islamic Azad University, Najafabad Branch, Iran)

**Paper ID** 1569055435
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**Authentication Personal**

Glaucya Boechat (Universidade Federal de Pernambuco, Brazil)

**Paper ID** 1569056319
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**Neural Network Modeling of Valve Stiction Dynamics**

Haslinda Zabiri (Universiti Teknologi PETRONAS, Malaysia)

**Paper ID** 1569056370
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**Modeling Heat Exchanger Using Neural Networks**

Haslinda Zabiri (Universiti Teknologi PETRONAS, Malaysia)

**Paper ID** 1569056372
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**Improved Dynamic Ant Colony System (DACS) on symmetric Traveling Salesman Problem (TSP)**

**Paper ID** 1569059439
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**Simple Authentication Scheme For Personal Digital Assistants using the Hidden Markov Model ToolKit(HTK)**

Ho Chiung Ching (Multimedia University, Malaysia)

**Paper ID** 1569060079
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**Agents for Stock Price Prediction**

Itaza Afiani Mohtar (Universiti Teknologi MARA, Malaysia)

**Paper ID** 1569060458
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**Apply Grey Relational Grade in Optimal Airplane Landing Gear Loads Calibration**

Jee-Ray Wang (Chienkuo Technology University, Taiwan)

**Paper ID** 1569052247
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**The Application of e-agent in Course Management System (ICMS)**

Jeyarani Periasamy (INTI College, Malaysia)

**Paper ID** 1569056159
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**Solving Quadratic Assignment Problems by a Tabu Based Simulated Annealing Algorithm**

Jiunn-Chin Wang (Jin-Wen University of Science and Technology, Taiwan)

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**Intelligent Mining for capturing processes through event logs to represent workflows using FP Trees**

Kavya N.P (VTU, India)

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**Online Arabic Handwriting Recognition Using Continuous Gaussian Mixture HMMs**

Khaled Assaleh (American University of Sharjah, UAE)

**Paper ID** 1569053675
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**Design of a Behavior Based Mobile Robot with Supervisory Control**

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**The Development of GM(1,1) Error Toolbox**

Kun-Li Wen (Chienkuo Technology University, Taiwan)

**Paper ID** 1569052027
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**A New Method for Employee Selection Process with Fuzzy Neural Networks**

M. Hadi Mashinchi (Universiti Teknologi Malaysia, Malaysia)

**Paper ID** 1569055107
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**An Off-line Fuzzy Backstepping Controller for Rotary Inverted Pendulum System**

Mahsa Rahmanian (Islamic Azad University of Tehran, Iran)

**Paper ID** 1569055747
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**Anti-overshoot Control of Model HelicopterÃ¢â‚¬â„¢s Yaw Angle with Combination of Fuzzy Controller and Fuzzy Brake**

Morteza Mohammadzaheri (The University of Adelaide, Australia)

**Paper ID** 1569054425
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**Hybrid Intelligent Control of a Lab Model Helicopter Pitch Dynamics**

Morteza Mohammadzaheri (The University of Adelaide, Australia)

**Paper ID** 1569054527
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**Hierarchical Diff-EDF An Agent Based Scheduler for Heterogeneous Real-Time Packet Networks**

Moutaz Saleh (Universiti Kebangsaan Malaysia, Malaysia)

**Paper ID** 1569034899
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**Frontal Obstacle Avoidance of an Autonomous Subsurface vehicle (ASV) Using Fuzzy Logic Method**

Muhammad Hafidz Fazli Fauadi (Universiti Teknikal Malaysia Melaka, Malaysia)

**Paper ID** 1569056539
Oral presentation

**Artificial Intellligence Detection System for**

**the Patient Assistance for Lifting Mobility Robot (PALMBOT)**

(Universiti Malaysia Sabah, Malaysia)

**Paper ID** 1569060017
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**Fuzzy Logic Control vs. Conventional PID Control of an Inverted Pendulum Robot**

Mutasim Nour (The University of Nottingham Malaysia Campus, Malaysia)

**Paper ID** 1569060031
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**Extraction of Intima- Media Layer of Arteria-Carotis and Evaluation of its thickness using Active contour approach**

Muthusamy Madheswaran (Muthayammal Engineering College, India)

**Paper ID** 1569056071
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**Using Learning Automata for Tuning Fuzzy Membership Functions in Learning Driver Preferences**

Narges Afshordi (Amir Kabir University of Technology, Iran)

**Paper ID** 1569051853
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**Modeling and Control of a Reactor**

Nasser Mohamed Ramli (Universiti Teknologi PETRONAS, Malaysia)

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**Training Matrix Parameters by Particle Swarm Optimization Using a Fuzzy Neural Network for Identification**

Niusha Shafiabady (Azad University, Iran)

**Paper ID** 1569054091
Poster presentation

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**Missing Data Estimation on Heart Disease Using Artificial Neural Network and Rough Set Theory**

Noor Akhmad Setiawan (Gadjah Mada University, Indonesia)

**Paper ID** 1569060307
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**Agent Preprocessing Framework For Data Mining**

Poster presentation

**PLC-based fuzzy logic controller for induction-motor drive with constant V/f ratio**

Nordin Saad (Universiti Teknologi PETRONAS, Malaysia)

**Paper ID** 1569054015
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**Early Paddy Disease Detection Using Fuzzy Temporal Information**

Norita Md Norwawi (Universiti Utara Malaysia, Malaysia)

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**Development of Automated Text Summarization System for Malay Language**

Norshuhani Zamin (Universiti Teknologi PETRONAS, Malaysia)

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**Using Genetic Algorithm applications to Evolves Algebraic Rule-Based Classifiers for NPC Prognosis**

Oras Baker (University College Sedaya International, Malaysia)

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**Rough Set Approach to Face Recognition**

Priya Gupta (Indian Institute of Information Technology Allahabad, India)

**Paper ID** 1569056083
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**Application of a Fuzzy Inference System to Seismic Events Tracking**

Reda Benbernou (University of Reading, United Kingdom)

**Paper ID** 1569054587
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**Optimization with Genetic Algorithm for Product Assembly Sequence Planning**

Ruslizam Daud (Universiti Malaysia Perlis, Malaysia)

**Paper ID** 1569056379
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**Natural Language Interface for Online Sales Systems**

Shaidah Jusoh (Universiti Utara Malaysia, Malaysia)

**Paper ID** 1569060289
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**Skull Stripping and Automatic Segmentation of Brain MRI Using Seed Growth and Threshold Techniques**

Shanthi Janardhan (University of Kerala,Trivandrum., India)

**Paper ID** 1569054233
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**Study on Decision-Making System for Vessel Automatic Anti-collision Using the Theory and Technology of Multi-agent System**

Shenhua Yang (University of Jimei, P.R.China)

**Paper ID** 1569055325
Oral presentation

**Study on Construction of Simulation Platform for Vessel Automatic Anti-collision and Its Test Method**

Shenhua Yang (University of Jimei, P.R.China)

**Paper ID** 1569055327
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**Comparative Study of Iris Recognition System using Wavelet Packet Neural Network and Gabor Wavelet**

Sunita Lokhande (University of Pune, India)

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**Fault Detection and Diagnosis System for a Combined Cooling and Power Plant, Part-I: A Survey**

Tamiru Alemu (Universiti Teknologi PETRONAS, Malaysia)

**Paper ID** 1569056171
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**Nonlinear Model Predictive Control Based on Lexicographic Multi-objective Genetic Algorithm**

Tao Zheng (University of Science and Technology of China, P.R.China)

**Paper ID** 1569056047
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**Annotated Disjunct in Link Grammar for Machine Translation**

Teguh Adji (Gadjah Mada University, Indonesia)

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### Investigation on Ultrasonic Attenuation Tomography from Reflected Data

Thongsamlith Onemanisone (King Mongkut's Institute of Technology Ladkrabang, Thailand)

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### An Ant Colony System Algorithm for Path Planning in Sparse Graphs

Xianshun Chen (Nanyang Technological University, Singapore)

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### Study on Extension-based Fuzzy Pattern Recognition

Xiayu Zhang (Guangdong University of Technology, P.R.China)

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### Synchronous Generator Nonlinear Modeling Using Wiener-Neural Model

Yazdan Najafi Sarem (IUST( Iran University of Science & Technology ), Iran)

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### Porosity and Permeability Estimation From Wireline Data Using ANN

Zuhar Harith (Universiti Teknologi PETRONAS, Malaysia)

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### Error Estimation of Injection Profiles on Mean Transit Time and Cerebral Blood Flow

Effat Yahaghi (Imam University, Iran)

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### Texture Analysis for PASI Scaliness Assessment

Hermawan Nugroho (Universiti Teknologi PETRONAS, Malaysia)

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**Development of a Steady State Visual Evoked Potential (SSVEP)-based Brain Computer Interface (BCI) System**

Leow Shan (University of Malaya, Malaysia)

**Paper ID** 1569060209
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**Determination of Kidney Area Independent Unconstrained Features for Automated Diagnosis and Classification**

Muthusamy Madheswaran (Muthayammal Engineering College, India)

**Paper ID** 1569056165
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**3D Human Motion Sensing from Multiple Cameras**

Nadira Nordin (Universiti Sains Malaysia, Malaysia)

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**The evaluation of ECG data compression Using Wavelet and Average Beat Subtraction**

Pathoumvanh Somsanouk (King Mongkut's Institute of Technology Ladkrabang, Thailand)

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**A multi-class heartbeat classifier employing hybrid fuzzy Ã¢â‚¬â€œneural network**

Rajesh Ghongade (Vishwakarma Institute of Information Technology, India)

**Paper ID** 1569055967
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**Surface EMG Classification Using Moving Approximate Entropy**

Siti Ahmad (University of Southampton, United Kingdom)

**Paper ID** 1569055293
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**Performance analysis of a Colorimeter designed with RGB Color sensor**

Sivanantha Raja Avaninathan (Alagappa Chettiar College of Engg. and Technology, India)

**Paper ID** 1569056219
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Sri Kusumadewi
(Indonesia Islamic University, Indonesia)

**Paper ID** 1569055995
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### Development of a EEG Amplifier for Brain-Computer-Interface (BCI) System

Tan Yin Qing
(University of Malaya, Malaysia)

**Paper ID** 1569060187
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### Application of Malay Speech Technology in Malay Stuttering Diagnostic

Tian Swee Tan
(Universiti Teknologi Malaysia, Malaysia)

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### CMUT for Foot Trajectory Measurement

Yufridin Wahab
(Victoria University, Australia)

**Paper ID** 1569054687
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## Communication Systems

### Spectral Amplitude Coding Optical CDMA: Double Weight Code Family Detection Scheme Using Reduced Set of Fiber Bragg Gratings

Ahmed Mohammed
(Universiti Teknologi PETRONAS, Malaysia)

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### Specific Persons Surveillance Using Satellite Technique

Amir Houshang Mazinan (Azad Unversity, Iran)

**Paper ID** 1569060036
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### Embedding Distributed Learning Algorithms in Wireless Ad-Hoc Control Networks

Antoine Desmet
(University of Wollongong, Australia)

**Paper ID** 1569056033
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### 125 KHz Ubiquitous RFID Tag Signal Detector System

Anuar Mat Safar
(Universiti Malaysia Perlis, Malaysia)

**Paper ID** 1569052511
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**Network Simulation Analysis Using Optical Zero Cross Correlation in OCDMA System**

Anuar Mat Safar (Universiti Malaysia Perlis, Malaysia)

**Paper ID** 1569054737
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**Evaluation of Hybrid Security System with Cluster Based key Management for Wireless Sensor Networks**

Attiya Akram (National University of Sciences and Technology (NUST) , Pakistan)

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**Multi-User Detection for the OCDMA: Optical Parallel Interference Cancellation with Optical Limiter**

Azizuddin Abdul Aziz (Universiti Teknologi PETRONAS, Malaysia)

**Paper ID** 1569056011
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**One Stage Optical Parallel Interference Cancellation for the Optical CDMA**

Azizuddin Abdul Aziz (Universiti Teknologi PETRONAS, Malaysia)

**Paper ID** 1569056345
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**A Hexagonal Fractal Antenna for Multiband Applications**

Azremi Abdullah Al-Hadi (University Malaysia Perlis, Malaysia)

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**An improved ICI reduction technique for OFDM using Co-ordinate interleaving**

B Senthil (Indian Institute of Technology, India)

**Paper ID** 1569056103
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**Joint Estimation of Frequency Offset and Channel Estimation in OFDM system using H infinity Particle Filtering**

B Senthil (Indian Institute of Technology, India)

**Paper ID** 1569056183
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**Feasability of a PDE-Based Teletraffic Model**

**for Cellular Networks**

University of Science & Technology, Malaysia)

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**QOS of Efficient GA-EMAN Routing Method For Future Mobile Tele-Emergency System**

Duduku V Viswacheda (University Malaysia Sabah, Malaysia)

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**A study of GCL sequence in Time and Frequency Synchronization for IEEE 802.16-2004 standard**

Duma Yanti (Universiti Teknologi PETRONAS, Malaysia)

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**The performance comparison of Basic Matrix and Mapping technique of Zero Cross Correlation Code**

Elamin Babekir (Universiti Teknologi PETRONAS, Malaysia)

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**Using hyperbolic tangent sigmoid transfer function in OFDM system**

Gang Yang (Xidian University, P.R.China)

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**Reducing PAPR in OFDM system by Cyclic convolution method**

Gang Yang (Xidian University, P.R.China)

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**Resource allocation for differentiated services in Mobile Ad Hoc Networks (MANET)-A Profile Based Approach**

Gunasekaran Raja (Anna University, India)

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**Complex Random Matrix and MIMO Channel Capacity**

Ha Duyen Trung (Chulalongkorn University, Thailand)

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**Cross-layer optimization for the physical and Medium Access Control layers in Mobile Ad-**

**hoc Network with Smart Antennas**

PETRONAS, Malaysia)

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**Effect of Mobility on the Performance of GA-based QoS Routing in Mobile Ad Hoc Networks**

Jiwa Abdullah (Universiti Tun Hussein Onn Malaysia, Malaysia)

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**FPGA Implementation of Space-Time Encoders**

Joel Marciano (University of the Philippines, Philippines)

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**Versatile LDPC Tool Box for Communication Systems**

Kannan M (Madras Institute of Technology, India)

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**A Study of Frame Timing Synchronization for WiMAX Applications**

Ken Li Ang (Universiti Teknologi PETRONAS, Malaysia)

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**PAPR Analysis of Precoding-Based OFDM Systems**

Kuan Min Yew (Universiti Teknologi PETRONAS, Malaysia)

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**Intelligent Manet**

M Roberts Masillamani (University of Sydney, Australia)

**Paper ID** 1569056085
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**Coupling Effects on Adaptive Smart Array Pattern Synthesis by Brain Emotional Learning Based Intelligent Controller**

Mahnaz Roshanaei (University of Tehran, Iran)

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**Long-term Forecasting of Internet Traffic for**

**Pakistan Internet Exchange**

NU, Pakistan)

**Paper ID** 1569056601
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**Fixed Timeout Technique (FTOT) For Mobile Database And Grid**

Moaiad Khder (Multimedia University, Malaysia)

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**BER Distortion Due to Nonlinear Stimulated Raman Scattering in Optical CDMA Transmission Systems**

Mohamad Khazani Abdullah (Universiti Putra Malaysia, Malaysia)

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**Precoding Based Novel Multiuser OFDM System**

Mohamed Mohamed (Universiti Teknologi PETRONAS, Malaysia)

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**RFID Applications in Warehouse Robot**

Mohd Helmy Abd Wahab (Universiti Tun Hussein Onn, Malaysia)

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**A Study On Mobile IM As An Alternative To SMS In Malaysia**

Mohd Hilmi Hasan (Universiti Teknologi PETRONAS, Malaysia)

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**Analysis of Hierarchical Diff-EDF Schedulability over Heterogeneous Real-Time Packet Networks**

Moutaz Saleh (Universiti Kebangsaan Malaysia, Malaysia)

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**EAP-based Authentication with EAP Method Selection Architecture**

Muhammad Agni Catur Bhakti (Universiti Teknologi PETRONAS, Malaysia)

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**On Secure OFDM System: Chaos Based Constellation Scrambling**

Muhammad Asif Khan (Universiti Teknologi PETRONAS, Malaysia)

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**Estimating Quality of Service of Mixed Traffic in 3G**

Norrozila Sulaiman (Newcastle University, United Kingdom)

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**Evaluation Study of QoS-Enabled AODV**

Nur Idawati Md Enzai (International Islamic University Malaysia, Malaysia)

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**Modulation Assesment/Limit, BER and Spectral Efficiency for Photonic Transmission in Optimal Communication System, DWDM**

Pouya Derakhshan Barjoei (Islamic Azad University, Iran)

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**Front End Estimation Of Noise Power And SNR In OFDM Systems**

Rana Shahid Manzoor (Universiti Teknologi PETRONAS, Malaysia)

**Paper ID** 1569055899
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**Enhanced Protocols for Pedagogical Through Mobile Learning**

S.Neduncheliyan Maran (Anna University, India)

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**Analysis and Design of doppler compensated clock for synchronisation during the data loss from remote sensing satellites**

Sarma Chandrasekhara (N.R.S.A, India)

**Paper ID** 1569056207
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**High Data Rate Filter Design For Satellite Communication**

Satish Sharma (ISRO Satellite Center, India)

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Sheng Chyan Lee (Universiti Teknologi PETRONAS, Malaysia)

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### Adaptive Bad link Lifetime for AODV Protocol in MANETs

Tamilarasi Muthu (Pondicherry Engineering College, India)

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### Blind Linear Feedback Equalization for ATSC DTV Reception

Tom Wilson (University of Technology, Austria)

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### Low-Latency Scalable Switch Architecture for ATM / WDM High-speed Networks

Ushadevi M B (Visvesvaraya Technical University, India)

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### Efficient Fair Queuing using Adaptive RED Algorithm for High Speed Networks

Ushadevi M B (Visvesvaraya Technical University, India)

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### PAPR Reduction in the OFDM System Employing Tone Reservation Based On IFFT/FFT

Zhengjie Yang (Xidian University, P.R.China)

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## Image Processing and Multimedia Systems

### Face detection based on skin color in Images by neural networks

Aamer Mohamed (Bradford University, United Kingdom)

**Paper ID** 1569056293
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### A Robust Method of Complete Iris Segmentation

Abdul Basit (College of E & ME, NUST, Pakistan)

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**Comprehensive review for Arabic Handwriting and Printed Characters Recognition**

Abdurazzag Aburas (International Islamic University Malaysia, Malaysia)

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**Handwriting Arabic Character Recognition using Haar Wavelet Compression**

Abdurazzag Aburas (International Islamic University Malaysia, Malaysia)

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**Application of Soft Thresholding in Digital Fingerprinting**

Bee Ee Khoo (Universiti Sains Malaysia, Malaysia)

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**Wavelet-DCT Based Image Coder for Video Coding Applications**

Beng Seow Chai (Universiti Teknologi PETRONAS, Malaysia)

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**Real-time Moving Vehicle Recognition under Snowy Condition**

Bo Liu (Hitachi (China) Research & Development Corporation, P.R.China)

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**Automatic PASI Area Scoring**

Dani Ihtatho (Universiti Teknologi PETRONAS, Malaysia)

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**SEPANG: Advances in Mobile Messaging**

Daniel Su Kuen Seong (The University of Nottingham, Malaysia, Malaysia)

**Paper ID** 1569055990
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**Handwritten Signature Hiding and Extraction using Alternate Bit Stuffing**

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**Sorted Score Decision Fusion in Multi Sample Biometric Systems using Lip Movement Sequence**

Dzati Athiar Ramli (Universiti Sains Malaysia, Malaysia)

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**Image Denisung: A Comparasion On Denoising**

Ehsan Nadernejad (Department of Computer and Electrical Engineering, Iran)

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**On Optimal Color Coordinate Selection for Wavelet-Based Color Image Watermarking**

Ehsan Vahedi (University of Tehran, Iran)

**Paper ID** 1569056263
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**Image Compression Using Block-Sorting Technique**

Elfitrin Syahrul (Gunadarma university, Indonesia)

**Paper ID** 1569056281
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**The Effects of Colour Image Features on the Performance of a Wavelet-based Codec**

Etik Irijanti (Universiti Teknologi PETRONAS, Malaysia)

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**Implementation of Simple Color Filtering on FPGA**

Hai Hiung Lo (Universiti Teknologi PETRONAS, Malaysia)

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**Pitch Cycle Evolutions Smoothing Using Target Correlation Approach**

Hassan Farsi (University of Birjand, Iran)

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**Multiresolution Registration of Multitemporal Remote Sensing Images by Optimization of Mutual Information Using a Simulated**

**Annealing based Marquardt-Levenberg Technique**

**Paper ID** 1569056325
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**Using Geometry Modeling to Find Pose Invariant Features in Face Recognition**

Hossein Badakhshannoory (Sharif University of Technology, Iran)

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**A model-based vertebral segmentation method using gradient vector flow and active shape models**

Jean-Francois Bauwens (Faculte Polytechnique de Mons, Belgium)

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**Image Enhancement Using Two Gamma-Rescaling Curves and Multi-scale Gaussian Matrix**

Jia Xu (Korea University, Korea)

**Paper ID** 1569054635
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**Complex Background Subtraction for Biometric Identification**

Kenneth Sundaraj (University Malaysia Perlis, Malaysia)

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**Palmprint Identification Using Wavelet Energy**

Kie Yih Edward Wong (Universiti Malaysia Sabah, Malaysia)

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