



5<sup>th</sup> – 8<sup>th</sup> DECEMBER 2011, MELAKA, MALAYSIA

SECRETARIAT : Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka,  
76100 Durian Tunggal, Melaka, Malaysia.

[www.utem.edu.my](http://www.utem.edu.my)

Tel: +606-331 6023 Fax: +606-331 6500

## SCHEDULE – PAPER PRESENTATION

### 11<sup>th</sup> International Conference on Hybrid Intelligent System (HIS 2011)

6 <sup>th</sup> December, Tuesday - Parallel Session 1 : (HIS 1)	
Chair : Tzung-Pei Hong	
Session : Intelligent Data Analysis And Applications	
11.45 am – 12 noon	<b>Manifold Synthesis: Predicting A Manifold from One Sample</b> <i>Li-Yun Lo and Ju-Chin Chen.</i>
12 noon – 12.15 pm	<b>GA-based Dissimilarity Visualization Engine for Design Patent Map Systems</b> <i>Chao-Chun Chen, Rain Chen, Ding-Chau Wang and Ting-Ting Dai.</i>
12.15 am – 12.30 pm	<b>Gait Recognition of Different People Groups Based on Fourier Descriptor and Support Vector Machine</b> <i>Deng-Yuan Huang, Wu-Chih Hu, Chuan-Wei Chuang, Mu-Song Chen and Chien-Chuan Ko.</i>
12.30 pm – 12.45 pm	<b>Fuzzy Approach for Mining General Temporal Association Rules in a Publication Database</b> <i>Guo-Cheng Lan, Chun-Hao Chen, Tzung-Pei Hong and Shih-Bin Lin.</i>
12.45 pm – 01.00 pm	<b>Application of Ant Colony Optimization for Lymph Node Classification in Ultrasound Images</b> <i>Chuan-Yu Chang.</i>
01.00 pm – 01.15 pm	<b>A Data Mining Algorithm for Mining Region-Aware Cyclic Patterns</b> <i>Kawuu W. Lin, Wei-Han Chang, and Sheng-Hao Chung</i>

6 <sup>th</sup> December, Tuesday - Parallel Session 1 : (HIS 2)	
Chair : Uvais Qidwai	
Session : Feature Selection Analysis	
11.45 am – 12 noon	<b>A Novel Hybrid Approach of Feature Selection through Feature Clustering using Microarray Gene Expression Data</b> <i>Choudhury Muhammad Mufassil Wahid, A B M Shawkat Ali, Kevin S Tickle</i>
12 noon – 12.15 pm	<b>Automated System for Drilling Operations Classification Using Statistical Features</b> <i>Bilal Esmael, Mohammad Arghad Arnaout, Rudolf Fruhwirth and Gerhard Thonhauser.</i>
12.15 am – 12.30 pm	<b>PSO and Computationally Inexpensive Sequential Forward Floating Selection in Acquiring Significant Features for Handwritten Authorship</b> <i>Satrya Fajri Pratama, Azah Kamilah Muda, Yun-Huoy Choo and Noor Azilah Muda.</i>
12.30 pm – 12.45 pm	<b>GA-based Feature Subset Selection: Application to Arabic Speaker Recognition System</b> <i>Abdelghani Harrag.</i>
12.45 pm – 01.00 pm	<b>Improving Ant Swarm Optimization with Embedded Vaccination for Optimum Reducts Generation</b> <i>Lustiana Pratiwi, Yun-Huoy Choo, Azah Kamilah Muda and Noor Azilah Muda.</i>
01.00 pm – 01.15 pm	<b>Velocity-based Reinitialisation approach in PSO for Feature Selection</b> <i>Shuzlina Abdul-Rahman , Zeti-Azura Mohamed-Husseini and Azuraliza Abu Bakar</i>



5<sup>th</sup> – 8<sup>th</sup> DECEMBER 2011, MELAKA, MALAYSIA

SECRETARIAT : Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka,  
76100 Durian Tunggal, Melaka, Malaysia.

[www.utem.edu.my](http://www.utem.edu.my)

Tel: +606-331 6023 Fax: +606-331 6500

6 <sup>th</sup> December, Tuesday - Parallel Session 2 : (HIS 1)	
Chair : Hideyuki Takagi	
Session : Fuzzy Hybridization For Pattern Recognition	
03.15 pm – 03.30 pm	<b>Color Space MS-based Feature Extraction Method for Face Verification</b> <i>Djamel Saigaa and Abdelghani Harrag</i>
03.30 pm – 03.45 pm	<b>A Hybrid-based Modified Adaptive Fuzzy Inference Engine for Pattern Classification</b> <i>Shohel Sayeed, Jakir Hossen, Abdul Rahman, Khairulmizam Samsudin and Fakhrol Rokhani.</i>
03.45 pm – 04.00 pm	<b>Interval Singleton Type-2 TSK Fuzzy Logic Systems Using Orthogonal Least-Squares and Backpropagation Methods as Hybrid Learning Mechanism</b> <i>Gerardo M. Mendez, Maria De Los Angeles Hernandez, David S. Gonzalez and Ismael Lopez-Juarez.</i>
04.00 pm – 04.15 pm	<b>An Innovative Hybrid Approach to Construct Fuzzy-Neural Network for 3D Face Recognition System</b> <i>Mrs.N.M. Thakare and Dr. V.M. Thakare</i>
04.15 pm – 04.30 pm	<b>Multi-objective Fuzzy Based Reactive Power and Voltage Control in a Distribution System Using SA</b> <i>Mohsen Gitizadeh and Hossein Karampour</i>
04.30 pm – 04.45 pm	<b>Tension Estimation by Fuzzy Predictors in Heavy Facilities</b> <i>Jan Platos, Vaclav Snasel, Pavel Kromer and Petr Fiala.</i>
04.45 pm – 05.00 pm	<b>Fuzzy Kalman Filter Based Trajectory Estimation</b> <i>N. Yadaiah SMIEEE Tirunagari Srikanth V. Seshagiri Rao</i>

6 <sup>th</sup> December, Tuesday - Parallel Session 2 : (HIS 2)	
Chair : Mario Koeppen	
Session : Classification And Clustering Strategy	
03.15 pm – 03.30 pm	<b>A Novel Skew Estimation Approach Using Radon Transform</b> <i>Prakash K. Aithal, Rajesh G., Siddalingaswamy P.C., and Dinesh U. Acharya</i>
03.30 pm – 03.45 pm	<b>A New Recommendation Algorithm Using Distributed Learning Automata and Graph Partitioning</b> <i>Shahzad Motamedi Mehr, Majid Taran, Ali Baradaran Hashemi and Mohammad Reza Meybodi.</i>
03.45 pm – 04.00 pm	<b>Semantic Rules Classification for Images Annotation</b> <i>Yassine AYADI, Mohamed GARGOURI, Ikram AMOUS, and Faiez GARGOURI</i>
04.00 pm – 04.15 pm	<b>A New Collaborative Filtering Algorithm Using K-means Clustering and Neighbors' Voting</b> <i>Gilda Moradi and Mehregan Mahdavi.</i>
04.15 pm – 04.30 pm	<b>Using NMF-based Text Summarization to Improve Supervised and Unsupervised Classification</b> <i>Dmitry Tsarev, Mikhail Petrovskiy and Igor Mashechkin.</i>
04.30 pm – 04.45 pm	<b>A GH-SOM optimization with SOM Labelling and Dunn Index</b> <i>Alessandro Bokan Garay, Guillermo Ponce Contreras, and Raquel Pati~no Escarcina</i>
04.45 pm – 05.00 pm	<b>Extending Dempster Shafer by Multilayer Decision Template in Classifier Fusion</b> <i>Mehdi Salkhordeh Haghghi, Abedin Vahedian and Hadi Sadoghi</i>

5<sup>th</sup> – 8<sup>th</sup> DECEMBER 2011, MELAKA, MALAYSIA

SECRETARIAT : Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka,  
76100 Durian Tunggal, Melaka, Malaysia.

[www.utem.edu.my](http://www.utem.edu.my)

Tel: +606-331 6023 Fax: +606-331 6500

7 <sup>th</sup> December, Tuesday - Parallel Session 3 : (HIS 1)	
Chair : Siti Mariyam Shamsuddin	
Session : Hybrid Neural Network And Optimization	
08.30 am – 08.45 am	<b>A Hybrid Artificial Neural Network-Naive Bayes for Solving Imbalanced Dataset Problems in Semiconductor Manufacturing Test Process</b> <i>Asrul Adam, Lim Chun Chew, Mohd Ibrahim Shapiai, Lee Wen Jau, Zuwairie Ibrahim, and Marzuki Khalid</i>
08.45 am – 09.00 am	<b>Neural network based adaptive compensator for motion/force control of constrained mobile manipulators with uncertainties</b> <i>H. P. Singh and N. Sukavanam.</i>
09.00 am – 09.15 am	<b>Evolutionary Spiking Neural Networks as Racing Car Controllers</b> <i>Elias Yee and Jason Teo.</i>
09.15 am – 09.30 am	<b>SINR Balancing Approach for Network Beamforming in Cognitive Two-Way Relay Networks</b> <i>Seyed Hamid Safavi, Mehrdad Ardebilipour and Ramezan Ali Sadeghzadeh.</i>
09.30 am – 09.45 am	<b>Neural Network Ensembles for Video Game AI Using Evolutionary Multi-Objective Optimization</b> <i>Tse Guan Tan, Jason Teo, Patricia Anthony and Jia Hui Ong.</i>
09.45 am – 10.00 am	<b>A Versatile Argumentation System based on the Logic of Multiple-Valued Argumentation</b> <i>Satoru Tannai, Yoshiaki Goto, Yoshihumi Maruyama, Takuto Itoya, Takeshi Hagiwara and Hajime Sawamura.</i>

7 <sup>th</sup> December, Tuesday - Parallel Session 3 : (HIS 2)	
Chair : Anazida Zainal	
Session : Searching And Optimization Strategies – Part 1	
08.30 am – 08.45 am	<b>Starting Configuration Of Cuckoo Search Algorithm Using Centroidal Voronoi Tessellations</b> <i>Moaath Shatnawi , and Mohammad Faidzul Nasrudin</i>
08.45 am – 09.00 am	<b>A Novel and Effective Algorithm for Numerical Optimization: Melody Search (MS)</b> <i>Seyed Mohammad Ashrafi and Alireza Borhani Dariane.</i>
09.00 am – 09.15 am	<b>High Performing Stochastic Local Search Algorithms for the QAP and Their Performance in Dependence to the Instance Structure and Size</b> <i>Mohamed Saifullah Hussin and Thomas Stuetzle.</i>
09.15 am – 09.30 am	<b>Trends and Challenges in Dynamic Optimization Problems</b> <i>Waseem Shahzad.</i>
09.30 am – 09.45 am	<b>Negotiating Decision Makers' Reference Points for Group Preference-based Evolutionary Multi-objective Optimization</b> <i>Slim Bechikh, Lamjed Ben Said and Khaled Ghédira.</i>
09.45 am – 10.00 am	<b>Metropolis Algorithm for solving Shortest Lattice Vector Problem(SVP)</b> <i>K B Ajitha Shenoy, Somenath Biswas and Piyush P Kurur.</i>



## The 11<sup>th</sup> International Conference on Hybrid Intelligent Systems

"Hybrid Intelligent Computing Towards a Greener Future"

<http://www.mirlabs.org/his11/>



## The 7<sup>th</sup> International Conference on Information Assurance and Security

"Innovative Cyber Security : Protecting Nations Beyond Borders"

<http://www.mirlabs.org/ias11/>

5<sup>th</sup> – 8<sup>th</sup> DECEMBER 2011, MELAKA, MALAYSIA

SECRETARIAT : Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka,  
76100 Durian Tunggal, Melaka, Malaysia.

[www.utem.edu.my](http://www.utem.edu.my)

Tel: +606-331 6023 Fax: +606-331 6500

7 <sup>th</sup> December, Tuesday - Parallel Session 4 : (HIS 1)	
Chair : Anang Hudaya Muhamad Amin	
Session : Network And Mobile Technologies	
11.45 am – 12 noon	<b>Comparison of Intelligent Schemes for Scheduling OSPF Routing Table Calculation</b> <i>Mohamad Haider Abu Yazid, Mohd Zahid M Soperi and Kamalrulnizam Abu Bakar.</i>
12 noon – 12.15 pm	<b>Second Order Sliding Mode Control Congestion Control of Differentiated Services Networks</b> <i>Roohollah Barzamini and Masoud Shafiee.</i>
12.15 pm – 12.30 pm	<b>Towards Adaptive Mobile Learning System</b> <i>Mohammed Abdel Razek and Hisham Jameel Bardsi.</i>
12.30 pm – 12.45 pm	<b>Adaptive Hybrid Channel Assignment in Wireless Mobile Network via Genetic Algorithm</b> <i>K.T.K. Teo.</i>
12.45 pm – 01.00 pm	<b>Web Service Based Model for Inter-agent Communication in Multi-Agent Systems: A Case Study</b> <i>Sachini Weerawardhana and Gaya Buddhinath Jayathilleke.</i>

7 <sup>th</sup> December, Tuesday - Parallel Session 4 : (HIS 2)	
Chair : Burairah Hussin	
Session : Searching And Optimization Strategies – Part 2	
11.45 am – 12 noon	<b>Hybrid Local Search Algorithms on Graph Coloring Problem</b> <i>Çağrı Yeşil, Buse Yılmaz and Emin Erkan Korkmaz.</i>
12 noon – 12.15 pm	<b>Master-Slave Parallel Vector-Evaluated Genetic Algorithm for Unmanned Aerial Vehicle's Path Planning</b> <i>Djamalladine Mahamat, Nordin Zakaria and Anindya Jyohi Pal.</i>
12.15 pm – 12.30 pm	<b>Automatic Threshold Tracking of Sensors Data Using Expectation Maximization EM Algorithm</b> <i>Arghad Arnaout, Bilal Esmael, Rudolf Fruhwirth and Gerhard Thonhauser.</i>
12.30 pm – 12.45 pm	<b>Improving Many-objective Optimizers with Aggregate Meta-Models</b> <i>Martin Pilat and Roman Neruda.</i>
12.45 pm – 01.00 pm	<b>A GRATIS Theorem for Relational Optimization</b> <i>Mario Koeppen, Kaori Yoshida and Kei Ohnishi.</i>



5<sup>th</sup> – 8<sup>th</sup> DECEMBER 2011, MELAKA, MALAYSIA

SECRETARIAT : Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka,  
76100 Durian Tunggal, Melaka, Malaysia.

[www.utem.edu.my](http://www.utem.edu.my)

Tel: +606-331 6023 Fax: +606-331 6500

7 <sup>th</sup> December, Tuesday - Parallel Session 4 : (HIS 3)	
Chair : Yadaiah Narri	
Session : Neural Based Hybridization For Prediction	
11.45 am – 12 noon	<b>A Hybrid of Functional Networks and Support Vector Machine Models for the Prediction of Petroleum Reservoir Properties</b> <i>Fatai Anifowose, Jane Labadin and Abdulazeez Abdulraheem.</i>
12 noon – 12.15 pm	<b>Plant Leaf Identification using Moment Invariants &amp; General Regression Neural Network</b> <i>Zalikhha Zulkifli, Itaza Afjani Mohtar and Puteh Saad</i>
12.15 pm – 12.30 pm	<b>A Stopping Criteria for the Growing Neural Gas based on a Validity Separation Index for Clusters</b> <i>Raquel Patiño.</i>
12.30 pm – 12.45 pm	<b>A New Protection Algorithm for Synchronous Generators Using Artificial Neural Networks</b> <i>Yadaiah Narri and Ravi Nagireddy</i>
12.45 pm – 01.00 pm	<b>The Automatic Identification of Melanoma by Wavelet and Curvelet Analysis: Study Based on Neural Network Classification</b> <i>Md. Khaled Abu Mahmoud, Adel Al-Jumaily, Maen Takruri</i>

7 <sup>th</sup> December, Tuesday - Parallel Session 5 : (HIS 1)	
Chair : Siti Zaiton Mohd Hashim	
Special Session : Fuzzy System Design	
03.15 pm – 03.30 pm	<b>Connection Manager Using FAHP of MCDM Techniques in Heterogeneous Network</b> <i>Chih-Wei Hsu and Sheng-Tzong Cheng</i>
03.30 pm – 03.45 pm	<b>Transformation of probability distribution into fuzzy set interpretable with likelihood view</b> <i>Marco Pota, Massimo Esposito and Giuseppe De Pietro</i>
03.45 pm – 04.00 pm	<b>On the Estimation of the Number of Fuzzy Set for Fuzzy Rule-Based Classification Systems</b> <i>Marcos Cintra, Maria Monard, Heloisa Camargo and Everton Cherman.</i>
04.00 pm – 04.15 pm	<b>Fuzzy Metrics in Configuration of Reconfigurable Systems</b> <i>Khumbulani Mpofu and Nkgatho Tlale.</i>
04.15 pm – 04.30 pm	<b>Fuzzy System Reliability Analysis Using Different Types of Intuitionistic Fuzzy Numbers</b> <i>Mohit Kumar and Shiv Prasad Yadav.</i>
04.30 pm – 04.45 pm	<b>Fuzzy clusters descriptors extraction for flexible organization of documents</b> <i>Tatiane Nogueira, Heloisa Camargo and Solange Rezende.</i>
04.45 pm – 05.00 pm	<b>Designing Fuzzy Rule Bases with a Bayesian Artificial Immune System</b> <i>Pablo A. D. Castro, Heloisa A. Camargo and Fernando J. Von Zuben.</i>
05.00 pm – 05.15 pm	<b>Adaptive Gaussian membership function fuzzy logic vector control of Permanent magnet synchronous motor with a Robust Extended Kalman filter</b> <i>Bindu V, Unnikrishnan A and Gopikakumari R.</i>



## The 11<sup>th</sup> International Conference on Hybrid Intelligent Systems

"Hybrid Intelligent Computing Towards a Greener Future"

<http://www.mirlabs.org/his11/>



## The 7<sup>th</sup> International Conference on Information Assurance and Security

"Innovative Cyber Security : Protecting Nations Beyond Borders"

<http://www.mirlabs.org/ias11/>

5<sup>th</sup> – 8<sup>th</sup> DECEMBER 2011, MELAKA, MALAYSIA

SECRETARIAT : Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka,  
76100 Durian Tunggal, Melaka, Malaysia.

[www.utem.edu.my](http://www.utem.edu.my)

Tel: +606-331 6023 Fax: +606-331 6500

7 <sup>th</sup> December, Tuesday - Parallel Session 5 : (HIS 2)	
Chair : M. Rahmat Widyanto	
Special Session : Intelligent Pattern Analysis And Computing	
03.15 pm – 03.30 pm	<b>Comparison of Hierarchical Aggregation Functions Decision Trees and Rule Based AI Optimization in the Classification of Fuzzy based Epilepsy Risk Levels from EEG Signals</b> <i>Harikumar Rajaguru and Vijayakumar Thangavel.</i>
03.30 pm – 03.45 pm	<b>Patterns Analysis and Classification for Web Proxy Cache</b> <i>Waleed Ali, Siti Mariyam Shamsuddin and Abdul Samed Ismail.</i>
03.45 pm – 04.00 pm	<b>Fuzzy Classifier for Classification of Medical Data</b> <i>Aida Ali, Siti Shamsuddin, Anca Ralescu and Sofia Visa.</i>
04.00 pm – 04.15 pm	<b>Bacterial Foraging Optimization Algorithm For Neural Network Learning Enhancement</b> <i>Ismail Al-Hadi, Siti Zaiton Hashim and Siti Mariyam Shamsuddin.</i>
04.15 pm – 04.30 pm	<b>OCR Signage Recognition with Skew and Slant Correction</b> <i>Intan Fariza Hairuman and Oi-Mean Foong.</i>
04.30 pm – 04.45 pm	<b>Continuous Local Histogram Desriptor For Diagnosis of Bronchiolitis Obliterans</b> <i>Khairul Muzzammil Saipullah, Mai Mariam Mohamed Aminuddin, Izadora Mustaffa, Ammar Anuar and Nuraishah Sarimin.</i>
04.45 pm – 05.00 pm	<b>Fuzzy Detection of Critical Cardiac Abnormalities using ECG data: A ubiquitous approach</b> <i>Uvais Qidwai and Mohamed Shakir.</i>
05.00 pm – 05.15 pm	<b>Arabic Calligraphy Classification using Triangle Model for Digital Jawi Paleography Analysis</b> <i>Mohd Sanusi Azmi, Khairuddin Omar, Mohammad Faizul Nasrudin, Azah Kamilah Muda and Azizi Abdullah.</i>



5<sup>th</sup> – 8<sup>th</sup> DECEMBER 2011, MELAKA, MALAYSIA

SECRETARIAT : Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka,  
76100 Durian Tunggal, Melaka, Malaysia.

[www.utem.edu.my](http://www.utem.edu.my)

Tel: +606-331 6023 Fax: +606-331 6500

8 <sup>th</sup> December, Tuesday - Parallel Session 6 : (HIS 1)	
Chair : Weicheng Lin	
Session : Intelligent Data Mining	
08.30 am – 08.45 am	<b>Causal Hidden Markov Model for View Independent Multiple Silhouettes Posture Recognition</b> <i>Chee Meng Mak, Yunli Lee, and Yong Haur Tay</i>
08.45 am – 09.00 am	<b>Analysis of Cyber-Bullying in a Social Networking</b> <i>C. Alberto Ochoa-Zezatti.</i>
09.00 am – 09.15 am	<b>A Bayesian Approach for Indoor Human Activity Monitoring</b> <i>Gamze Uslu, O'zgu'r Altun Sebnem Baydere</i>
09.15 am – 09.30 am	<b>Consolidation of Fingerprint Databases: A Malaysian Case Study</b> <i>Chiung Ching Ho and Chikkannan Eswaran.</i>
09.30 am – 09.45 am	<b>Positioning Coverage Mismatch in Ontology Integration for OWL-Based Ontology</b> <i>Emaliana Kasmuri and Peter Woods</i>
09.45 am – 10.00 am	<b>Recognising Complex Patterns Through A Distributed Multi-Feature Approach</b> <i>Anang Hudaya Muhamad Amin and Asad Iqbal Khan</i>

8 <sup>th</sup> December, Tuesday - Parallel Session 6 : (HIS 2)	
Chair : T. Ravindran Babu	
Session : Detection Computing And Applications - Part 1	
08.30 am – 08.45 am	<b>Copied Video Detection with MPEG-7 Video Signature and Multiple Direct-mapped Cache</b> <i>Noboru Murabayashi and Kenichi Yoshida.</i>
08.45 am – 09.00 am	<b>Intelligent Biometric Detection System for Disabled People</b> <i>Bilal Luqman Bayasut, Gede Pramudya Ananta; Azah Kamilah Muda</i>
09.00 am – 09.15 am	<b>Kernel-Based Object Tracking via Particle Filter and Mean Shift Algorithm</b> <i>K.T.K. Teo.</i>
09.15 am – 09.30 am	<b>Line Removal Technique for Document and Non- Document Images</b> <i>S. Deivalakshmi, B. Harinivash, and P. Palanisamy</i>
09.30 am – 09.45 am	<b>Automated Detecting Sleep Apnea Syndrome: A Novel System Based on Genetic SVM</b> <i>Yashar Maali and Adel Al-Jumaily.</i>
09.45 am – 10.00 am	<b>A Multi-agent Based for Distributed Course Timetabling</b> <i>Joe Henry Obit, Djamila Ouelhadj, Khan Vun Teong, Rayner Alfred and Dario Landa-Silva.</i>



5<sup>th</sup> – 8<sup>th</sup> DECEMBER 2011, MELAKA, MALAYSIA

SECRETARIAT : Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka,  
76100 Durian Tunggal, Melaka, Malaysia.

[www.utem.edu.my](http://www.utem.edu.my)

Tel: +606-331 6023 Fax: +606-331 6500

8 <sup>th</sup> December, Tuesday - Parallel Session 7 : (HIS 1)	
Chair : Samad Hassan Basari	
Session : Detection Computing And Applications - Part 2	
11.45 am – 12 noon	<b>Predicting Patients Survival using Supervised Techniques</b> <i>Sofianita Mutalib, Nor Aina Azman and Shuzlina Abdul Rahman.</i>
12 noon – 12.15 pm	<b>Human Computer Interactive System for Fast Recovery based Stroke Rehabilitaion</b> <i>Alan Dinevan, Yee Mon Aung and Adel Al-Jumaily.</i>
12.15 pm – 12.30 pm	<b>Speaker Independent Robust Phoneme Recognition using Higher-Order Statistics and Entropic-based features in Adverse Environments</b> <i>Ioannis Atsonios.</i>
12.30 pm – 12.45 pm	<b>Optimal Skin Detection for Face Localization using Genetic Algorithms</b> <i>Ravindra Babu Tallamraju, Mahalakshmi K and Subrahmanya S.V.</i>
12.45 pm – 01.00 pm	<b>A Survey on GWAS and the Algorithms</b> <i>Sofianita Mutalib and Azlinah Mohamed.</i>

8 <sup>th</sup> December, Tuesday - Parallel Session 7 : (HIS 2)	
Chair : Kenichi Yoshida	
Session : Intelligent System Part 1	
11.45 am – 12 noon	<b>An Intelligent Agent for Combinatorial Auction</b> <i>Seiichi Arai and Takao MIURA</i>
12 noon – 12.15 pm	<b>Hybrid Intelligent Systems for Pneumatic Sequential Circuit Design</b> <i>G Sajaysurya and Gurunathan Saravana Kumar.</i>
12.15 pm – 12.30 pm	<b>Simulation Study of the Effect of <i>Mitragyna Speciosa</i> on Hybrid Current in Rat Hippocampus CA3 Pyramidal Neuron</b> <i>F. Reza, T. Begum, M.U. Ilmie, M. C. L. Hanif, J. Zhang, and J. M. Abdullah</i>
12.30 pm – 12.45 pm	<b>Hybrid Classifiers for Improved Semantic Subspace Learning of News Documents</b> <i>Nandita Tripathi, Michael Oakes, and Stefan Wermter</i>
12.45 pm – 01.00 pm	<b>Multi-Objective Optimization using Hybrid Genetic Algorithm and Cellular Learning Automata Applying to Graph Partitioning Problem</b> <i>Mahdi Farshbaf Sahihsorkhabi, Mohammad-Reza Feizi-Derakhshi and Arash Roshanpoor</i>



5<sup>th</sup> – 8<sup>th</sup> DECEMBER 2011, MELAKA, MALAYSIA

SECRETARIAT : Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka,  
76100 Durian Tunggal, Melaka, Malaysia.

[www.utem.edu.my](http://www.utem.edu.my)

Tel: +606-331 6023 Fax: +606-331 6500

8 <sup>th</sup> December, Tuesday - Parallel Session 8 : (HIS 1)	
Chair : Nanna Suryana Herman	
Session : Biological And Nature Inspired Computing	
02.00 pm – 02.15 pm	<b>An Improved Local Best Searching in Particle Swarm Optimization using Differential Evolution</b> <i>Afnizanfaizal Abdullah, Safaai Deris, Siti Zaiton Mohd Hashim, Mohd Saberi Mohamad and Satya Nanda Vel Arjunan.</i>
02.15 pm – 02.30 pm	<b>A Hybrid Artificial Bee Colony Algorithm for Numerical Function Optimization</b> <i>Yan Xiaohui, Yunlong Zhu and Wenping Zou.</i>
02.30 pm – 02.45 pm	<b>A Novel PSO based Carrier Frequency Offset Estimation Technique for Wi-MAX Uplink Transmissions</b> <i>S M Sameer, Fahad M. Al-Humaidan and Rahoof P P.</i>
02.45 pm – 03.00 pm	<b>Artificial Immune Algorithm Based Gravimetric Fluid Dispensing Machine</b> <i>David F. W. Yap, S. P. Koh, S. K. Tiong, and Edwin Y. S. Sim</i>
03.00 pm – 03.15 pm	<b>Analysis of Event-Related Alpha Oscillations in Auditory P300 by Wavelet Transform (WT) Method</b> <i>T. Begum, F. Reza, A. L. Ahmed, S. Elaina, and J. M. Abdullah</i>
03.15 pm – 03.30 pm	<b>Training Neural Networks using Artificial Immune System and Particle Swarm Optimization: A Comparisons for 3D Object Recognition</b> <i>Habibullah Akbar, Nanna Suryana and Shahrin Sahib.</i>

8 <sup>th</sup> December, Tuesday - Parallel Session 8 : (HIS 2)	
Chair : Ensar Gul	
Session : Intelligent System Part 2	
02.00 pm – 02.15 pm	<b>Neural network prognostics model for industrial equipment maintenance</b> <i>Siti Azirah Asmai, Abd. Samad Hasan Basari, Abdul Samad Shibghatullah and Burairah Hussin.</i>
02.15 pm – 02.30 pm	<b>Analysis of Watermarking Techniques in Video</b> <i>Hamid Shojanazeri, Wan Azizun Wan Adnan, Sharifah Mumtadzah Syed Ahmad,, M. Iqbal Saripan</i>
02.30 pm – 02.45 pm	<b>DQAS implementation to support Base Analysis Technique in Heterogenous Databases</b> <i>Azwa Abdul Aziz and Md. Yazid Mohd Saman</i>
02.45 pm – 03.00 pm	<b>Rehabilitation Exercise with Real-Time Muscle Simulation based EMG and AR</b> <i>Yee Mon Aung and Adel Al-Jumaily</i>
03.00 pm – 03.15 pm	<b>Virtual Games based Self Rehabilitation for Home Therapy System</b> <i>Chethasi Kaluarachchi, Yee Mon Aung and Adel Al-Jumaily.</i>
03.15 pm – 03.30 pm	<b>Design of Robust Intelligent Coordinated Controller for Power Systems Problems</b> <i>Yadaiah Narri, Dinesh Kumar A. G. and Tulasi Ram Das G.</i>

-END-



5<sup>th</sup> – 8<sup>th</sup> DECEMBER 2011, MELAKA, MALAYSIA

SECRETARIAT : Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka,  
76100 Durian Tunggal, Melaka, Malaysia.

[www.utem.edu.my](http://www.utem.edu.my)

Tel: +606-331 6023 Fax: +606-331 6500

## SCHEDULE – PAPER PRESENTATION

### 7<sup>th</sup> International Conference on Information Assurance and Security (IAS 2011)

6th December, Tuesday - Parallel Session 1 : (IAS 1)	
Chair : Rabiah Ahmad	
Session : Identification, Authentication & User Privacy	
11.45 am – 12 noon	<b>Distributed Access Control For Social Networks</b> <i>Adnan Ahmad and Brian Whitworth</i>
12 noon – 12.15 pm	<b>System Integrity Verification for RFID System with Anonymizer</b> <i>Mohd Faizal Mubarak, Jamalul-Lail Ab Manan and Saadiyah Yahya</i>
12.15 am – 12.30 pm	<b>Integrating OAuth with Information Card Systems</b> <i>Haitham Al-Sinani</i>
12.30 pm – 12.45 pm	<b>Access Control Taxonomy for Social Networks</b> <i>Adnan Ahmad and Brian Whitworth</i>
12.45 pm – 01.00 pm	<b>Enhanced Sharing and Privacy in Distributed Information Sharing Environments</b> <i>Ahmad Kamran Malik and Schahram Dustdar</i>
01.00 pm – 01.15 pm	<b>On the Capacity of Fingerprinting Codes against Unknown Size of Colluders</b> <i>Gou Hosoya, Hideki Yagi, Manabu Kobayashi and Shigeichi Hirasawa</i>

6th December, Tuesday - Parallel Session 2 : (IAS 1)	
Chair : Lam-For Kwok	
Session : Intrusion Detection & Prevention	
03.15 pm – 03.30 pm	<b>AES: Current Security and Efficiency Analysis of its Alternatives</b> <i>Herman Isa, Iskandar Bahari, Hasibah Sufian and Muhammad Reza Z'Abu</i>
03.30 pm – 03.45 pm	<b>Adaptive Context-aware Packet Filter Scheme using Statistic-based Blacklist Generation in Network Intrusion</b> <i>Yuxin Meng and Lam-For Kwok</i>
03.45 pm – 04.00 pm	<b>Vulnerabilities Taxonomy: Improving Understanding On Vulnerabilities</b> <i>Nurul Haszeli Ahmad, Syed Ahmad Aljunid and Jamalul-Lail Ab Manan</i>
04.00 pm – 04.15 pm	<b>Ensemble Based Categorization and Adaptive Model for Malware Detection</b> <i>Muhammad Najmi Ahmad Zabidi, Mohd Aizaini Maarof and Anazida Zainal</i>
04.15 pm – 04.30 pm	<b>Hybrid of Rough Set Theory and Artificial Immune Recognition System as a Solution to Decrease False Alarm Rate in Intrusion Detection System</b> <i>Fatin Norsyafawati Mohd Sabri, Norita Md Norwawi and Kamaruzzaman Seman</i>
04.30 pm – 04.45 pm	<b>Guesswork Changes in Multi-processor Attacks</b> <i>Reine Lundin and Stefan Lindskog</i>
04.45 pm – 05.00 pm	<b>Intrusion Detection based on K-Means Clustering and OneR Classification</b> <i>Warusia Mohamed, Zaiton Muda, Nur Izura Udzir and Mohd Nassir Sulaiman</i>
05.00 pm – 05.15 pm	<b>Biometric Driven Initiative System for Passive Continuous Authentication</b> <i>Muhammad Khurram Khan, Pei-Wei Tsai, Jeng-Shyang Pan and Bin-Yih Liao</i>



## The 11<sup>th</sup> International Conference on Hybrid Intelligent Systems

"Hybrid Intelligent Computing Towards a Greener Future"

<http://www.mirlabs.org/his11/>



## The 7<sup>th</sup> International Conference on Information Assurance and Security

"Innovative Cyber Security : Protecting Nations Beyond Borders"

<http://www.mirlabs.org/ias11/>

5<sup>th</sup> – 8<sup>th</sup> DECEMBER 2011, MELAKA, MALAYSIA

SECRETARIAT : Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka,  
76100 Durian Tunggal, Melaka, Malaysia.

[www.utem.edu.my](http://www.utem.edu.my)

Tel: +606-331 6023 Fax: +606-331 6500

<b>7th December, Wednesday - Parallel Session 3 : (IAS 1)</b>	
<b>Chair : Sei-Ichiro Kamata</b>	
<b>Session : Information Hiding &amp; Multimedia Security</b>	
08.30 am – 08.45 am	<b>Cryptanalysis of the CHAIN Cipher</b> <i>Wun-She Yap, Sze Ling Yeo and Chee Hoo Yian</i>
08.45 am – 09.00 am	<b>Reversible Watermarking using Residue Number System</b> <i>Atta Rahman, Muhammad Tahir Naseem, Ijaz Mansoor Qureshi and Muhammad Zeeshan Muzaffar</i>
09.00 am – 09.15 am	<b>A Common Key Encryption Algorithm Using N-dimensional Hilbert Curves</b> <i>Sei-Ichiro Kamata</i>
09.15 am – 09.30 am	<b>Fixed Size Encoding Scheme for Software Watermarking</b> <i>Kapi Azyan Yusra and Ibrahim Subariah</i>
09.30 am – 09.45 am	<b>Comparison of Digital Audio Watermarking Techniques for the security of VOIP Communications</b> <i>Fusun Citak Er and Ensar Gul</i>
09.45 am – 10.00 am	<b>An Extended Rights Expression Model Supporting Dynamic Digital Rights Management</b> <i>Dongyang Xu, Zhi Tang and Yinyan Yu</i>

<b>7th December, Wednesday - Parallel Session 4 : (IAS 1)</b>	
<b>Chair : Omar Zakaria</b>	
<b>Session : Socio-Technical Research In Information Security</b>	
11.45 am – 12 noon	<b>Secure Vault: A Privacy Preserving Reliable Architecture for Secure Social Networking</b> <i>Siddharth Malik and Anjali Sardana</i>
12 noon – 12.15 pm	<b>Hybrid Intelligent Decision Support System for Credit Risk Assessment</b> <i>Hamidreza Taremian and Mahdi Pakdaman Naeini</i>
12.15 pm – 12.30 pm	<b>Developing a Grand Strategy for Cyber War</b> <i>Andrew Colarik and Lech Janczewski</i>
12.30 pm – 12.45 pm	<b>Information Security Awareness in University: Maintaining Learnability, Performance and Adaptability through Roles of Responsibility</b> <i>Abdul Rahman Ahlan and Muharman Lubis</i>
12.45 pm – 01.00 pm	<b>A New Approach to Evaluating Security Assurance</b> <i>Moussa Ouedraogo and Djamel Khadraoui</i>



## The 11<sup>th</sup> International Conference on Hybrid Intelligent Systems

"Hybrid Intelligent Computing Towards a Greener Future"

<http://www.mirlabs.org/his11/>



## The 7<sup>th</sup> International Conference on Information Assurance and Security

"Innovative Cyber Security : Protecting Nations Beyond Borders"

<http://www.mirlabs.org/ias11/>

5<sup>th</sup> – 8<sup>th</sup> DECEMBER 2011, MELAKA, MALAYSIA

SECRETARIAT : Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka,  
76100 Durian Tunggal, Melaka, Malaysia.

[www.utem.edu.my](http://www.utem.edu.my)

Tel: +606-331 6023 Fax: +606-331 6500

7th December, Wednesday - Parallel Session 5 : (IAS 1)	
Chair : Emilio S. Corchado	
Special Session : Identification, Authentication & User Privacy	
03.15 pm – 03.30 pm	<b>Multifactor Graphical Passwords: An Assessment of End-User Performance</b> <i>Mohd Zalisham Jali, Steven Furnell and Paul Dowland</i>
03.30 pm – 03.45 pm	<b>State of The Art: Signature Verification System</b> <i>Shih Yin Ooi</i>
03.45 pm – 04.00 pm	<b>A novel system for fingerprint privacy protection</b> <i>Sheng Li and Alex Kot</i>
04.00 pm – 04.15 pm	<b>Pulse Active Mean (PAM): A PIN Supporting Feature Extraction Algorithm for Doubly Secure Authentication</b> <i>Sairul Safie, John Soraghan and Lykourgos Petropoulakis</i>
04.15 pm – 04.30 pm	<b>Efficient Iris Recognition System Based on Dual Boundary Detection Using Robust Variable Learning Rate Multi-layer</b> <i>Mohtashim Baqar, Sohaib Azhar, Zeeshan Iqbal, Irfan Shakeel, Laeeq Ahmed and Muhammad Moinuddin</i>
04.30 pm – 04.45 pm	<b>A Comparative Study of Feature Extraction Using PCA and LDA for Face Recognition</b> <i>Erwin Hidayat, Fajrian Nur Adnan, Azah Kamilah Muda, Yun-Huoy Choo and Sabrina Ahmad</i>
04.45 pm – 05.00 pm	<b>H.264/AVC digital fingerprinting based on content adaptive embedding</b> <i>Karima Ait Saadi, Ahmed Bouridane and Abdelrazek Guessoum</i>
05.00 pm – 05.15 pm	<b>OpenID Authentication As A Service in OpenStack</b> <i>Rasib Hassan Khan, Jukka Ylitalo and Abu Shohel Ahmed</i>

7th December, Wednesday - Parallel Session 5 : (IAS 2)	
Chair : Lech Janczewski	
Special Session : Secure System Architecture & Emerging Technology	
03.15 pm – 03.30 pm	<b>Black hole Effect Mitigation Method in AODV Routing Protocol</b> <i>Zaid Ahmad, Kamarularifin Abd. Jalil and Jamalul-Lail Ab Manan</i>
03.30 pm – 03.45 pm	<b>The New Services in Nagios: Network Bandwidth Utility, Email Notification and SMS Alert in Improving the Network</b> <i>Mohammad Ali Arsyad Mohd Shuhaimi, Zaheera Zainal Abidin, Irda Roslan and Syarulnaziah Anawar</i>
03.45 pm – 04.00 pm	<b>Preventing data leakage in service orchestration</b> <i>Thomas Demongeot, Eric Totel, Valérie Viet Triem Tong and Yves Le Traon</i>
04.00 pm – 04.15 pm	<b>Strategic Approach for High Performance Object Tracking in a Network of Surveillance Cameras</b> <i>Harsha Weerasena, Aruni Niroshika, Pasan Bandara, Janaka Kulasekara, Bhathiya Dassanayake and Piumini Wijenayake</i>
04.15 pm – 04.30 pm	<b>Holistic Analysis of Mix Protocols</b> <i>Giampaolo Bella, Denis Butin and David T Gray</i>
04.30 pm – 04.45 pm	<b>Enhance Hardware Security Using FIFO in Pipelines</b> <i>Kuan Jen Lin</i>
04.45 pm – 05.00 pm	<b>State Convergence and the effectiveness of Time-Memory-Data Tradeoffs</b> <i>Sui-Guan Teo, Leonie Simpson, Kenneth Koon-Ho Wong and Ed Dawson</i>
05.00 pm – 05.15 pm	<b>A DRM Framework Towards Preventing Digital Piracy</b> <i>Ravi Sankar Veerubhotla and Ashutosh Saxena</i>



5<sup>th</sup> – 8<sup>th</sup> DECEMBER 2011, MELAKA, MALAYSIA

SECRETARIAT : Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka,  
76100 Durian Tunggal, Melaka, Malaysia.

[www.utem.edu.my](http://www.utem.edu.my)

Tel: +606-331 6023 Fax: +606-331 6500

8th December, Thursday - Parallel Session 6 : (IAS 1)	
Chair : Shukor Abd Razak	
Session : Wireless Network Security	
08.30 am – 08.45 am	<b>A Security Analysis of Smartphone Data Flow and Feasible Solutions for Lawful Interception</b> <i>Mithun Paul, Ashutosh Saxena and Nitin Singh Chauhan</i>
08.45 am – 09.00 am	<b>Surveying the Wireless Body Area Network in the realm of Wireless Communication</b> <i>Sofia Najwa Ramli and Dr. Rabiah Ahmad</i>
09.00 am – 09.15 am	<b>Toward Data-Centric Mobile Security</b> <i>Ali Deghantanha</i>
09.15 am – 09.30 am	<b>A Cooperative Intrusion Detection Scheme for Clustered Mobile Ad Hoc Networks</b> <i>Hajar Al-Hujailan, Mznah Al-Rodhaan and Abdullah Al-Dhelaan</i>
09.30 am – 09.45 am	<b>Timed and energy cost analysis of security protocol in wireless sensor networks</b> <i>Farshad Amin</i>
09.45 am – 10.00 am	<b>A Two-Tier Energy-Efficient Secure Routing Protocol for Wireless Sensor Networks</b> <i>Aly El-Semary and Mohamed A. Azim</i>

8th December, Thursday - Parallel Session 7 : (IAS 1)	
Chair : Abdul Samad Shibhatullah	
Session : Intrusion Detection & Prevention	
11.45 am – 12 noon	<b>Investigation of Bypassing Malware Defences and Malware Detections</b> <i>Ali Deghantanha</i>
12 noon – 12.15 pm	<b>A Fast Eavesdropping Attack Against Touchscreens</b> <i>Federico Maggi, Alberto Volpatto, Simone Gasparini, Giacomo Boracchi and Stefano Zanero</i>
12.15 pm – 12.30 pm	<b>A Novel Intrusion Detection Framework for Wireless Sensor Networks</b> <i>Murad Rassam, Mohd. Aizaini Maarof and Anazida Zainal</i>
12.30 pm – 12.45 pm	<b>Slow Port Scanning Detection</b> <i>Mehiar Dabbagh, Ali Ghandour, Kassem Fawaz, Wassim El Hajj and Hazem Hajj</i>
12.45 pm – 01.00 pm	<b>Construction of Multivariate Quadratic Quasigroups (MQQs) in Arbitrary Galois Fields</b> <i>Simona Samardjiska, Yanling Chen and Danilo Gligoroski</i>

8th December, Thursday - Parallel Session 8 : (IAS 1)	
Chair : Subariah Ibrahim	
Session : Information Hiding & Multimedia Security	
02.00 pm – 02.15 pm	<b>Analysis on Lightweight Block Cipher, KTANTAN</b> <i>Nik Azura Nik Abdullah, Norul Hidayah Ahmad Zawawi and Hazlin Abdul Rani</i>
02.15 pm – 02.30 pm	<b>High Capacity and Inaudibility Audio Steganography Scheme</b> <i>Haider Shahadi and Razali Jidin</i>
02.30 pm – 02.45 pm	<b>Key Based Bit Level Genetic Cryptographic Technique (KBGCT)</b> <i>Subhranil Som</i>
02.45 pm – 03.00 pm	<b>AES-512: 512-Bit Advanced Encryption Standard Algorithm Design and Evaluation</b> <i>Abidalrahman Moh'd, Yaser Jararwah and Lo'Al Tawalbeh</i>
03.00 pm – 03.15 pm	<b>An Identity based Beta Cryptosystem</b> <i>Chandrashekhara Meshram and S.A. Meshram</i>

-END-