

## ICoMMS'09 Tentative Schedule

**Session 1A: BIO MEDICAL 1**

**Chair: Prof. Dr. T. Manigandan**

**Co-Chair: Mr. Fathinul Syahir Bin Ahmad Sa'ad**

**Date: Monday, 12 October 2009**

**Time: 11:30 AM- 1:00 PM**

**Venue: Jasmine Room**

Paper Title No	Paper Title and Author
25893	<p><b>Modified Energy based Time-Frequency Features for Classifying Human Emotions using EEG</b>  M.Murugappan, R.Nagarajan, and S Yaacob  School of Mechatronic Engineering, Universiti Malaysia Perlis (UniMAP)  MALAYSIA.</p>
43670	<p><b>Neural-tuned PID Controller for Point-to-point (PTP) Positioning System: Model Reference Approach</b>  Wahyudi and Wali Ahmad (a) Myo Min Htut  Intelligent Mechatronics Research Unit, Department of Mechatronics Engineering, Faculty of Engineering, International Islamic University MALAYSIA.</p>
52098	<p><b>A Study of Noise Effect on the Fast Brain Activity</b>  N.F Mohammad, N.A.Saidatul, M.R Tamjis  Universiti Malaysia Perlis, Malaysia. MALAYSIA.</p>
55782	<p><b>Surface Electromyography Signal Processing and Application: A Review</b>  A. N. Norali, M.H. Mat Som  School of Mechatronics Engineering, Universiti Malaysia Perlis, MALAYSIA.</p>
78510	<p><b>Detection of Corpus Collosum using DTI Tractograph</b>  Mohd Yusof Baharuddin, Biomedical Electronics Engineering Program, Schools of Mechatronics, University Malaysia Perlis, Malaysia.  Biomedical Engineering Departments, University of Melbourne, AUSTRALIA.</p>
81068	<p><b>Determination Of Stress Index: Approach And Challenges</b>  Syahrull Hi-Fi Syam b Ahmad Jamil, Sazali Yaacob, Paulraj M.P, Ku Halim bin Ku Ariffin,  School of Mechatronic Engineering, Universiti Malaysia Perlis (UniMAP), MALAYSIA.</p>
85130	<p><b>Computational Modeling of Caspase Activated DNAase (CAD) Regulation towards Apoptosis</b>  Mohd Yusof Baharuddin,  Biomedical Electronics Engineering Program, Schools of Mechatronics, University Malaysia Perlis, Malaysia</p>

**Session 1B: Object Recognition, Power and Machines**

**Chair: Prof. Dr. N. Devarajan**

**Co-Chair: Mr. Muhammad Juhairi Aziz Bin Safa**

**Date: Monday, 12 October 2009**

**Time: 11.30 AM- 1:00 PM**

**Venue: Rafflesia Room**

Paper Title No	Paper Title and Author
26112	<p><b>Investigation of Rolling and Hard Direction of Magnetic Field istribution on Grain Oriented M5 Electrical Steel Material</b>                      I. Daut, K. Anayet, HS. Syafruddin, M. Irwanto                      School of Electrical Systems Engineering, Power Electronics and Electrical Machine Design Research Cluster, MALAYSIA.</p>
45017	<p><b>An Innovative Approach for Energy Conservation in Induction motor</b>                      V.Chandrasekaran                      Department of Electrical &amp; Electronics Engineering, Sri Krishna College of Engineering and Technology, INDIA.                      T.Manigandan                      Dean, School of Electrical Sciences, Kongu Engineering College, INDIA.</p>
62800	<p><b>Sports Video Analysis for Player Strength and weakness psychiatry in the context of Object-Relational Data Bases</b>                      P.UmaMaheswari, M.Rajaram,S.N.Sivanandam.                      Computer Science and Engineering , Sona College of Technology                      Anna University , INDIA.</p>
77163	<p><b>Security and Scalability of MANET Routing Protocols in Homogeneous &amp; Heterogeneous Networks</b>                      T.V.P. Sundararajan, P.Karthik, A. Shanmugam                      Bannari Amman Institute Of Technology, Sathyamangalam, INDIA</p>
78800	<p><b>ARME Appliance: The New Design of Rapid Maxillary Expansion Appliance</b>                      A. A. Sharizli, University Malaysia Pahang / Faculty of Electrical and Electronics Engineering, MALAYSIA                      N.A. Abu Osman, A.A. Saifizul,                      University Malaya / Department of Biomedical Engineering, MALAYSIA.</p>
89091	<p><b>Simulation Model of Power Quality Provider</b>                      P.A. Venkatachalam K.Chandrasekaran Mohd Noh Karsiti K.S.RamaRao                      Electrical and Electronic Engineering Department, Universiti Teknologi PETRONAS, MALAYSIA.</p>
96880	<p><b>Shape Matching and Object Recognition Using Dissimilarity Measures with Hungarian Algorithm</b>                      D. Chitra, N. Devarajan                      Department of EEE, Government College of Technology Coimbatore, INDIA                      T. Manigandan                      School of Electrical Sciences, Kongu Engineerng College, INDIA</p>

**Session 1C: Bio Medical 2**

**Chair: Prof. Dr. Rajaram**  
**Co-Chair: Mrs. Hema C.R.**  
**Date: Monday, 12 October 2009**  
**Time: 11.30 AM - 1:00 PM**  
**Venue: Grand Ballroom**

<b>Paper Title No</b>	<b>Paper Title and Author</b>
<b>11908</b>	<b>A Preliminary Study of Noise Effect on Pulse Rate, Blood Pressure and EEG Signal</b> Saidatul, N.F Mohammad, M.R Tamjis, Sazali Yaacob Universiti Malaysia Perlis, MALAYSIA.
<b>14671</b>	<b>ECG Viewed using Grayscale Patterns</b> Vijanth Department of Fundamental and Applied Science, Universiti Teknologi PETRONAS S. Asirvadam, Kaur Seth Pital, Lila Iznita Izhar and Noor Anis A.M.Khuzi Department of Electrical and Electronics, Universiti Teknologi PETRONAS, MALAYSIA.
<b>20017</b>	<b>Diagnosis of Coronary Artery Disease Using Artificial Intelligence Based Decision Support System</b> Noor Akhmad Setiawan, P.A. Venkatachalam and Ahmad Fadzil M.Hani Department of Electrical and Electronic Engineering, Universiti Teknologi PETRONAS, MALAYSIA
<b>63832</b>	<b>Separation of Heart Sounds &amp; Lung Sounds using Independent Component Analysis</b> B.HemaKumar, R.Anandanatarajan Department of Electronics and Instrumentation Engineering, Pondicherry Engineering College, INDIA.
<b>81587</b>	<b>On the Chaotic Nature of Biological Signals Using Nonlinear Data Analysis Methodology</b> Azian Azamimi Abdullah, School of Mechatronic Engineering, Universiti Malaysia Perlis, Perlis, MALAYSIA Yoshifumi Nishio Department of Electrical and Electronic Engineering, The University of Tokushima, Tokushima, JAPAN

Paper Title No	Paper Title and Author
89379	<p><b>A Certain Investigations on the Performance Issues of Smart Antennas for Cellular Mobile Communications</b>  T.Gunasekaran, S.Manisankar, K.Parthiban, I.Periyasamy, R.Sivakumar  Bannari Amman Institute of Technology, INDIA.  K.R.Shankar Kumar  Sri Ramakrishna Engineering College, INDIA.</p>
90380	<p><b>Brain Machine Interface based Wheelchair Control with Minimal Subject Training</b>  Hema C.R., Paulraj M.P., S.Yaacob, A.H. Adom, R. Nagarajan  School of Mechatronic Engineering, Universiti Malaysia Perlis, Jejawi, Perlis, MALAYSIA.</p>

**Session 2A: Image Processing**

**Chair: Assoc.Prof. Dr. Paulraj M.P.**

**Co-Chair: Miss Azian Azamimi Binti Abdullah**

**Date: Monday, 12 October 2009**

**Time: 3.30 PM - 6:00 PM**

**Venue: Jasmine Room**

<b>Paper Title No</b>	<b>Paper Title and Author</b>
<b>19099</b>	<b>Facial Emotion Detection using Guided Particle Swarm Optimization (GPSO)</b> Bashir Mohammed Ghandi, R. Nagarajan and Hazry Desa School of Mechatronic Engineering, Universiti Malaysia Perlis (UniMAP), MALAYSIA.
<b>34651</b>	<b>Application of Thresholding Technique in Determining Ratio of Blood Cells for Leukemia Detection</b> Abdul Nasir, A. S., Mustafa, N., Mohd Nasir, N. F. School of Mechatronic Engineering, Universiti Malaysia Perlis, MALAYSIA.
<b>34698</b>	<b>Wireless Cameras Network for Intelligent Traffic Surveillance System</b> Zainab Nazar Khalil Wafi, R.B. Ahmad School of Computer and Communication Engineering, University Malaysia Perlis, MALAYSIA. Paulraj M P School of Mechatronic Engineering, University Malaysia Perlis, MALAYSIA.
<b>34991</b>	<b>Contrast Enhancement for medical images based on histogram equalization followed by median Filter</b> P. Jagatheeswari, S.Suresh Kumar Department of EEE, Udaya School of Engineering, Tamilnadu, INDIA. M. Rajaram Department of EEE, Government College of Engg., Tamilnadu, INDIA.
<b>49701</b>	<b>Colour Image Enhancement using Bright and Dark Stretching Techniques for Tissue based Tuberculosis Bacilli Detection</b> M.K. Osman M.Y. Mashor Electronic & Biomedical Intelligent Systems (EBITs) Research Group, School of Mechatronic Engineering, Universiti Malaysia Perlis, MALAYSIA. H. Jaafar Department of Patology, School of Medical Science, Universiti Sains Malaysia, MALAYSIA
<b>59467</b>	<b>Homogeneous and Non-homogeneous Media Identification and Circuitry Design of Multiphase Ultrasonic Tomography</b> Mohd Rizal Manan, Mohd Hafiz Fazalul Rahiman, Sazali Yaacob Tomography Imaging Research Group, School of Mechatronic Engineering Universiti Malaysia Perlis, MALAYSIA. Ruzairi Abdul Rahim Process Tomography Research Group (PROTOM), Department of Control and Instrumentation Engineering, Faculty of Electrical Engineering, Universiti Teknologi Malaysia, UTM Skudai, Johor, MALAYSIA

Paper Title No	Paper Title and Author
75173	<p><b>2D Upper Human Body Pose Modelling Using Windowing and Template Matching Techniques</b>  R. R. Porle, A. Chekima, F. Wong,  School of Engineering and Information Technology  Universiti Malaysia Sabah, Sabah, MALAYSIA  G. Sainarayanan  ICT Academy of Tamil Nadu, ELCOT Complex, 2-7 Developed Plots,  Industrial Estate, INDIA.</p>
82377	<p><b>Visualization and Image Analysis of Power Transmission Network Using Mathematical Morphology Techniques</b>  S.U.Prabha, C.Venkateshaiah and M.Senthil Arumugam  FET,Multimedia University, Melaka Campus, MALAYSIA</p>
85392	<p><b>Color Image Denoising and Contrast Enhancement in Contourlet Domain</b>  Melkamu. H. Asmare, Vijanth S. Asirvadam, Lila Iznita  Department of Electrical and Electronic Engineering, Universiti Teknologi PETRONAS,  MALAYSIA</p>
89015	<p><b>Ultrasound Processing Circuitry for Ultrasonic Tomography</b>  Nor Muzakkir Nor Ayob, Mohd Hafiz Fazalul Rahiman, Sazali Yaacob  Tomography Imaging Research Group, School of Mechatronic Engineering, Universiti  Malaysia Perlis, MALAYSIA.  Ruzairi Abdul Rahim  Process Tomography Research Group (PROTOM), Control and Instrumentation  Engineering Department, Universiti Teknologi Malaysia, MALAYSIA.</p>
97328	<p><b>Design And Development Of Stereo Motion For Mobile Observation Center</b>  Muhammad Naufal Mansor , Sazali Yaacob , R. Nagarajan,M.Hariharan  Universiti Malaysia Perlis (UniMAP), MALAYSIA.</p>

**Session 2B: FUZZY AND NEURAL 1**

**Chair: Prof. Dr. Mohd. Yusoff Mashor**

**Co-Chair: Mr. Mohd Shuhanaz Zener Azalam**

**Date: Monday, 12 October 2009**

**Time: 3.30 PM - 6:00 PM**

**Venue: Rafflesia Room**

Paper Title No	Paper Title and Author
11639	<p><b>Multi-criteria Fuzzy Regression Model for Evaluating Oil Palm Grading</b>                      A. Nureize, J. Watada                      Graduate School of Information, Production and System, Waseda University, JAPAN</p>
23686	<p><b>Design Representation of the Multipurpose Fuzzy Logic Controller using Hardware Description Language</b>                      Zeyad Assi Obaid, Nasri Sulaiman and M. N. Hamidon, Mohammed Obaid Ali                      Department of Electrical &amp; Electronic Engineering, Faculty of Engineering, University Putra Malaysia, MALAYSIA</p>
23981	<p><b>Automatic Generation of Swarm Robotic Behaviors using Multi-objective Evolution</b>                      Chin Kim On, Jason Teo, Azali Saudi                      Evolutionary Computing Laboratory, School of Engineering and Information Technology, Universiti Malaysia Sabah, MALAYSIA.</p>
43460	<p><b>Motorbike Engine Faults Diagnosing System Using Entropy and Functional Link Neural Network in Wavelet Domain</b>                      Paulraj M P, Sazali Yaacob, Mohd Zubir Md Zin                      School of Mechatronics Engineering, Universiti Malaysia Perlis (UniMAP), Perlis, MALAYSIA.</p>
49081	<p><b>Genetic Neuro Controller Based Direct Torque Control For Switched Reluctance Motor Drive.</b>                      Veena P &amp; Jeyabharath R                      K.S.Rangasamy College of Technology, Tamil Nadu, INDIA.                      Rajaram M                      Govt.College of Engg, Tirunelveli, Tamil Nadu, INDIA.                      S.N.Sivanandam                      P.S.G.College of Technology, Coimbatore, Tamil Nadu, INDIA</p>
57215	<p><b>A Speech Recognition System for Malaysian English Pronunciation Using Neural Network</b>                      Paulraj M P, Sazali Bin Yaacob, Sathees Kumar                      School of Mechatronic Engineering, Universiti Malaysia Perlis, MALAYSIA.                      Ahamad Nazri                      Centre for Communication Skills &amp; Entrepreneurship, University Malaysia Perlis, MALAYSIA.</p>

Paper Title No	Paper Title and Author
58222	<p><b>Color Recognition Algorithm using a Neural Network Model in Determining the Ripeness of a Banana</b>  Paulraj M P, Hema C.R, R.Pranesh Krishnan  School of Mechatronic Engineering, Universiti Malaysia Perlis (UniMAP), Perlis, MALAYSIA.  Siti Sofiah Mohd Radzi  Electronics and Electrical Engineering with Communication, University of Sheffield, ENGLAND.</p>
62413	<p><b>Offense/Defense Decision-Making Controller for a Billiard Robot</b>  Jr-Syu Yang, Chan-Yun Yang, Chia-Hsiao Liu  Associate professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN.</p>
64686	<p><b>A High Performance DTC Strategy for Torque Ripple Minimization Using duty ratio control for SRM Drive</b>  Veena P &amp; Jeyabharath R  K.S.Rangasamy College of Technology, Tamil Nadu, INDIA.  Rajaram M  Govt.College of Engg, Tamil Nadu, India.  S.N.Sivanandam  P.S.G.College of Technology, Tamil Nadu, INDIA.</p>
64799	<p><b>Early diagnosis of Ischemia stroke using neural network</b>  Anita Thakur, Surekha Bhanot,  Birla Institute of Technology and Science, Pilani, Rajasthan, INDIA.  S.N.Mishra  Shinas college of Technology, Sultanate of Oman</p>



**Session 3A: INFORMATION TECHNOLOGY**

**Chair: Prof. Dr. C.P. Lim**

**Co-Chair: Miss Siti Marhainis Binti Othman**

**Date: Tuesday, 13 October 2009**

**Time: 9.20 AM - 11:20 AM**

**Venue: Jasmine Room**

<b>Paper Title No</b>	<b>Paper Title and Author</b>
<b>56394</b>	<b>Design of reconfigurable antenna array for WLAN and WIMAX application.</b> R. Saranya Department of Electronics and Communication Engineering, Adithya Institute of Technology, INDIA. K. RamPrakash Kumaraguru College Of Technology, INDIA.
<b>59914</b>	<b>Developing an Autonomous Mobile Robot and a Study of Navigation</b> towards Nonholonomic problems Rudzuan Mohd Nor, Hazry Desa, Mohd Sofian M. Rosbi and R.Nagarajan School of Mechatronic Engineering, Universiti Malaysia Perlis, MALAYSIA.
<b>62522</b>	<b>DES Enabled Fingerprint System</b> Gobinath Subramaniam, Kalyani Subramanian, Senthil Raja Balakrishnan, Baskaran Kaliaperumal Government College of Technology, India
<b>65961</b>	<b>Secure Data Communication for Mobile Ad Hoc Network Using Zonal Routing Protocol</b> S. Dhanalakshmi Professor & Head, Department of MCA, Selvam College of Technology, INDIA M. Rajaram Department of EEE, Government College of Engineering , INDIA. S.N. Sivanandham Department of CSE, PSG Tech., INDIA.
<b>76315</b>	<b>A new approach for convert multiply-connected trees in Bayesian networks</b> Hussein Baloochian, Alireza khantimoory, Saeed Balochian Islamic Azad university branch of zanjaan, IRAN.
<b>89565</b>	<b>Authenticated Collaborative Key Agreement for Dynamic Peer Groups</b> M.Rajaram Prof / EEE, Govt Colleg of Engineering, INDIA. D.Thilagavathy Research Scholar, Adhiyamaan College of Engg, INDIA.

Paper Title No	Paper Title and Author
89893	<p><b>Development of Attitude Control System on RCM3400 Microcontroller for Nano-Satellite Applications</b>            Muhyi Yaakop, Sazali Yaacob, M Harihran, R. Nagarajan            School of Mechatronic, Universiti Malaysia Perlis, MALAYSIA            Abdul Rahman Mohd Saad            School of computer and communication, Universiti Malaysia Perlis, MALYASIA</p>
96433	<p><b>An Efficient Variant Signature Scheme on ECDSA</b>            M.Prabu            Research Scholar, Anna University-Coimbatore, INDIA.            R.Shanmugalakshmi            Department of CSE, Government College of Technology, INDIA</p>

**Session 3B: ROBOTICS 1**

**Chair: Prof. Madya Dr. Abdul Hamid Adom**

**Co-Chair: Mr. Jefri Efendi Mohd Salih**

**Date: Tuesday, 13 October 2009**

**Time: 9.20 AM - 11:20 AM**

**Venue: Rafflesia Room**

<b>Paper Title No</b>	<b>Paper Title and Author</b>
<b>15068</b>	<p><b>How Does "Modular Hierarchical Architecture Concept" Help Us to Enhance Robot's Function?</b>  M.Taheri, S.H.Mohades Kasaei, S.M.Mohades Kasaei  Institute of Robotics and Intelligent Systems, Islamic Azad University, IRAN</p>
<b>25239</b>	<p><b>Modeling and Implementation of Omni-directional Soccer Robot with Wide Vision Scope Applied in Robocup-MSL</b>  S.Hamidreza Kasaei, S.Mohammadreza Kasaei, S.Alireza Kasaei, Mohsen Taheri  Islamic Azad University – Khorasgan Branch, IRAN.</p>
<b>33253</b>	<p><b>Design of a sequential control circuit for an industrial robot using cascading method</b>  S. Malayappan  Principal, Saranathan College of Engineering, INDIA.  K. Arul Raj, S. Sathya Arunachalam,  Department of Mechanical Engineering, Einstein College of Engineering, INDIA.  S. Venugopal, Scientist, Robotics section, Indira Gandhi centre for Atomic research, INDIA.  D. Ramalingam  Professor, Department of Mechanical Engineering, Drist University, INDIA</p>
<b>36249</b>	<p><b>Active Stereo Vision Based System for Estimation of Mobile Robot Orientation using Composition Matrix</b>  Paulraj M P Hema C.R MHA Hamid  School of Mechatronic Engineering  University Malaysia Perlis (UniMAP), MALAYSIA.  Fadzilah Hashim R. Badlishah Ahmad  School of Computer and Communication Engineering, University Malaysia Perlis (UniMAP), MALAYSIA</p>
<b>56867</b>	<p><b>ROVI: A Robot for Visually Impaired for Collision- free Navigation</b>  A. Allan Melvin, B. Prabu, R. Nagarajan , Bukhari Illias  School of Mechatronic Engineering, Universiti Malaysia Perlis, MALAYSIA.</p>

Paper Title No	Paper Title and Author
71423	<p><b>Design and Implementation a Robust Structure and Fuzzy Rule-Based Motion Controller for a Humanoid Soccer Robot</b>            S.Alireza Kasaei, S.Hamidreza Kasaei, S.Mohammadreza Kasaei, Mohsen Taheri            Islamic Azad University – Najaf Abad Branch, Young Researchers Club, Isfahan , IRAN</p>
84222	<p><b>Developing Stereo Vision System for Object Recognition and Positioning of AMAD-R Mobile Robot</b>            Mohd Saifizi Saidon, Hazry Desa, Paulraj Murugesu, and Mohd Sofian M. Rosbi            School of Mechatronic Engineering, Universiti Malaysia Perlis, MALAYSIA.</p>

**Session 4A: Control**

**Chair: Prof. Dr. R. Nagarajan**

**Co-Chair: Mrs. Hasimah Ali**

**Date: Tuesday, 13 October 2009**

**Time: 11.30 AM - 1:00 PM**

**Venue: Jasmine Room**

<b>Paper Title No</b>	<b>Paper Title and Author</b>
<b>10625</b>	<b>Vibration Suppression of a Handheld Tool Using Active Force Control with Crude Approximation Method</b> M.F. Hassan A. Juliawati Faculty of Mechanical Engineering, Universiti Malaysia Pahang, MALAYSIA. M. Mailah Department of Applied Mechanics, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, MALAYSIA. M.A. Salim Faculty of Mechanical Engineering, Universiti Teknikal Malaysia Melaka, MALAYSIA.
<b>15467</b>	<b>2-D Analysis Based ILC for Linear Time-Variant Discrete Systems with Multiple Time Delays</b> Lim Eng Aik Institut Matematik Kejuruteraan, Universiti Malaysia Perlis, MALAYSIA.
<b>48755</b>	<b>Dynamic Role Engine and Formation Control for Cooperating Agents</b> S.Hamidreza Kasaei, S.Mohammadreza Kasaei, S.Alireza Kasaei, Mohsen Taheri Islamic Azad University – Khorasgan Branch, IRAN.
<b>63499</b>	<b>NCTF Control Method of Two Mass System for PTP Positioning Fitri.MY</b> Department of Electrical Engineering, UTM International Campus, MALAYSIA. Wahyudi and R. Akmeliawati, and Andika A.Wijaya Department of Mechatronic Engineering International Islamic University Malaysia (IIUM), MALAYSIA.
<b>86041</b>	<b>Genetic Algorithm Tuning Based PID Controller for Liquid-Level Tank System</b> Mohammed Obaid Ali, S. P. Koh, K. H. Chong, S.K.Tiong and Zeyad Assi Obaid Department of Electronics and Communication Engineering, Universiti Tenaga Nasional, MALAYSIA

**Session 4B: FUZZY AND NEURAL 2, INSTRUMENTATION****Chair: Prof. Dr. Srikanth Patnaik****Co-Chair: Assoc. Prof. Dr. Paulraj M P****Date: Tuesday, 13 October 2009****Time: 11.30 AM - 1:00 PM****Venue: Rafflesia Room**

<b>Paper Title No</b>	<b>Paper Title and Author</b>
<b>44051</b>	<b>Virtual Harmonic Analyser – Harmonic Analysis and Estimation of THD using LabVIEW</b> N.Senthilnathan Research Scholar, Department of EEE, Kongu Engineering College, INDIA. T.Manigandan Professor & Dean, School of Electrical Sciences Kongu Engineering College, INDIA.
<b>80967</b>	<b>Remotely Navigated Mobile Platform Using Voice Command</b> Khairulnizam Othman K.Sundaraj Universiti Malaysia Perlis (UniMAP), MALAYSIA.
<b>94342</b>	<b>FPGA configuration on Xilinx ML506 Development Board through the USB port in C/HDL</b> Kushal Sreedhar Department of Electronics and Communication Engineering RNS Institute of Technology, INDIA.
<b>97133</b>	<b>Speech Processing of Malay Velar Words using PSD</b> Mohd Yusof Baharuddin Biomedical Electronics Engineering Program, Schools of Mechatronics, University Malaysia Perlis, MALAYSIA.
<b>99070</b>	<b>Development of Man-Machine Interface Using Matlab: An Adaptive Network-Based Fuzzy Inference System Modeling For Laser Machining</b> Sivarao, M.S.Rizal, A.Tajul, Taufik Faculty of Manufacturing Engineering, Universiti Teknikal Malaysia Melaka, Ayer Keroh, Melaka, MALAYSIA.
<b>99780</b>	<b>Development of Intelligent Portable Electronic Nose</b> A.H. Abdullah, A.H. Adom, A.Y. Md Shakaff, M.N. Ahmad, A. Zakaria, M.A. Markom, E.S.Tan, N.A. Fikri, R.A. Siregar, M.A. Saad Sensor Technology and Application Cluster Research Universiti Malaysia Perlis, MALAYSIA.

**Session 5A: ROBOTICS 2, COMMUNICATION AND INTERFACE**

**Chair: Prof. Momoh J E Salami**

**Co-Chair: Mr. Fahisal Abdullah**

**Date: Tuesday, 13 October 2009**

**Time: 3.30 PM - 6:00 PM**

**Venue: Jasmine Room**

Paper Title No	Paper Title and Author
19345	<p><b>Developing a Knowledge Based Group Decision Support System With Reference to Cognitive Analysis in India</b>                      K. Raja                      CSE, Narasu's Sarathy Institute of Technology, Salem, INDIA.                      S.K. Srivatsa                      ECE, St.Joseph's College of Engineering, Chennai, INDIA.                      C.Umapathi                      CSE, Sathyabama University, Chennai, INDIA.</p>
21215	<p><b>Autonomous Soccer Robot Using Triple Infra-red Sensor for Ball Detection</b>                      M. H. Ali, A. A. Shafie, M. F. Alias                      International Islamic University Malaysia, P.O Box 10, 50278, MALAYSIA</p>
31634	<p><b>SIMULTANEOUS LOCALIZATION AND MAP BUILDING – A GUIDED TOUR</b>                      William Low, R. Nagarajan, Sazali Yaacob                      School of Mechatronics Engineering, University Malaysia Perlis, MALAYSIA.</p>
41158	<p><b>Study of Real Time Database Management System (RTDBMS) on Inventory system</b>                      D.Hazry, M.R.M.Sofian, M.R.Muhamad Fadhlan                      Autonomous System and Machine Vision Lab, School of Mechatronic Engineering, Universiti Malaysia Perlis, MALAYSIA</p>
47305	<p><b>A Study of Infrastructure for Real-Time Location System</b>                      D.Hazry, M.Sofian, M.Zahiruddin                      Autonomous and Machine Vision Lab,                      Mechatronics Engineering, School of Mechatronic Engineering                      Universiti Malaysia Perlis, MALAYSIA</p>
54721	<p><b>Study of Integration 2.4GHz and 5.8GHz in RFID Tag</b>                      Hazry Desa, M.Sofian, Shaiful Zairi                      Autonomous System and Machine Vision Group, Universiti Malaysia Perlis, Malaysia.</p>
87689	<p><b>Study of Control Signal for Quadrotor UAV</b>                      D.Hazry M.R, Mohd Sofian, M.D.Muhamad Firdaus                      Autonomous System and Machine Vision Laboratory, School of Mechatronic,                      Universiti Malaysia Perlis, 01000 Kangar, Perlis, MALAYSIA.</p>
93945	<p><b>Study of Inertial Measurement Unit Sensor</b>                      D. Hazry, M. Sofian, A. Zul Azfar                      Autonomous System and Machine Vision Laboratory,                      School of Mechatronic, Universiti Malaysia Perlis, MALAYSIA.</p>

**Session 5B: FUZZY AND NEURAL 3**

**Chair: Dr. Hazry Bin Desa**

**Co-Chair: Mr. Khairul Ali Hassan**

**Date: Tuesday, 13 October 2009**

**Time: 3.30 PM - 6:00 PM**

**Venue: Rafflesia Room**

<b>Paper Title No</b>	<b>Paper Title and Author</b>
<b>70513</b>	<b>Neuro-Fuzzy based Motor Imagery Classification for a Four Class Brain Machine Interface</b> Hema C.R, Paulraj M.P, S. Yaacob, A.H. Hamid, Nagarajan R School of Mechatronic Engineering , Universiti Malaysia Perlis, MALAYSIA.
<b>75518</b>	<b>Two Axis Adaptive Predictive Fuzzy Logic Controller for a Pico-satellite</b> R. Nagarajan, Paulraj M P, Sazali Yaacob, Zaridah Mat Zain School of Mechatronic, Universiti Malaysia Perlis, MALAYSIA Warren Soh Kay Hoh, Ahmad Sabirin Arshad Astronautic Technology (M) Sdn Bhd MALAYSIA.
<b>76266</b>	<b>Fuzzy Variable Structure Control with Reduced-order Observer for Micro Satellite Stabilization in Space</b> Rosfariedzah Rusli, R. Nagarajan, Muhajir Rahim School of Mechatronic Engineering, Universiti Malaysia Perlis, MALAYSIA
<b>78440</b>	<b>Analysis of Voice and Sentence Repetition using FSL</b> Mohd Yusof Baharuddin Biomedical Electronics Engineering Program, Schools of Mechatronics, University Malaysia Perlis, MALAYSIA
<b>79406</b>	<b>Speaker Verification Based on Speech Signal</b> Shariffah Fauziah Jap, Ali Chekima, Mazlina Mamat, Wan Mahani Abdullah School of Engineering and Information Technology, University Malaysia Sabah, MALAYSIA.
<b>80124</b>	<b>Damage Detection in Steel Plates using Discrete Cosine Transformation Techniques and Artificial Neural Network</b> Paulraj M P, Mohd Shukry A M, Sazali Yaacob, Mohd Hafiz F R, R Pranesh Krishnan School of Mechatronics Engineering, Universiti Malaysia Perlis, MALAYSIA.
<b>89779</b>	<b>Overview of Automatic Stuttering Recognition System</b> Lim Sin Chee, Ooi Chia Ai, Sazali Yaacob Universiti Malaysia Perlis, MALAYSIA



Paper Title No	Paper Title and Author
90825	<p><b>Development and Application of An Enhanced ART-Based Neural Network</b>  Keem Siah Yap  Department of Electronics &amp; Communication Engineering, Universiti Tenga Nasional, MALAYSIA  Chee Peng Lim, Junita Mohamed Saleh  School of Electrical &amp; Electronic Engineering, Universiti Sains Malaysia, MALAYSIA  Eric W.M Lee  Department of Building and Construction, City University of Hong Kong, Hong Kong, CHINA</p>
92307	<p><b>DESIGNE OF AN ADAPTIVE NEURO-FUZZY POSITION CONTROLLER FOR A PNEUMATIC SYSTEM</b>  Mostafa Marandi  Division of Mechatronics, Semnan university of Technology, Mashad, IRAN.  Sassan Azadi  Division of Electronic, Semnan university of Technology, IRAN.</p>
99770	<p><b>Design of Neural PID Controller For Reduced Order Model</b>  P.Gomathi, T.Manigandan,  Kongu Engineering College, Erode, India.  N.Devarajan  Government College of Technology, Coimbatore, India.</p>