

## **ICoMMS 2006**

### **Conference Schedule**

**Friday, 15 September 2006**

- 8.00 AM     **Registration**
- 8.30 AM     **Welcome Speech ( Organizing Chairman )**  
*Prof. Dr. Sazali Yaacob,*  
Dean, School of Mechatronics Engineering,  
Northern Malaysia University College of  
Engineering, Malaysia,
- 9.00 AM     **Keynote Address 1**  
**Title:“ Field Robotics-Challenges in Human  
Robot Collaboration”**  
*Speaker: Professor Gamini Dissanayake,*  
University of Technology, Sydney, AUSTRALIA
- 10.00 AM    Tea Break
- 10.30 AM    **Technical sessions: 1A, 1B, 1C and 1D**
- 12.00 PM    Lunch & Prayers
- 2.30 PM     **Keynote Address 2**  
**Title: " Designing Biometric Systems"**  
*Speaker: Professor Marzuki Khalid*  
Malaysia Japan University Centre, Universiti  
Teknologi Malaysia, MALAYSIA
- 3.30 PM     Tea Break
- 4.00 PM     Technical sessions: 2A, 2B, 2C and 2D

## **Banquet (Ballroom)**

**Friday, 15 September 2006**

- 7.00 PM **Arrival of Participants**
- 7.30 PM **Arrival of Rector KUKUM and other VVIPS**
- 7.40 PM **Arrival of Guest of Honor**
- 7.50PM **Speech by Rector and the Patron of ICoMMS 2006**
- 8.00 PM **Speech and Official Opening of ICoMMS 2006 by Guest of Honor**
- 8.10 PM **Souvenir to Guest of Honor by Rector KUKUM**
- 8.20PM **Dinner commences with Entertainment program**
- 10.00 PM **End**

## Conference Schedule

**Saturday, 16 September 2006**

- 8.30 AM     **Keynote Address 3**  
**Title: “ Research on Man-Machine Co-ordination using A Biped Robot with Hetrogeneous Legs”**  
*Speaker: Professor Ju-Jang Lee,*  
Institute of Control, Automation and System Engineers (ICASE) KAIST, KOREA
- 9.30 AM     Tea Break
- 10.00 AM    **Technical sessions: 3A, 3B, 3C and 3D**
- 11.30 AM    MATLAB Work Shop “Tech Source”
- 12.10 PM    Lunch
- 1.00 PM     **Keynote Address 4**  
**Title: "Intelligent Artificial Life Body with Air Muscles as Next Generation Robot ".**  
*Speaker: Professor Masanori Sugisaka,*  
University of Oita, JAPAN
- 2.00 PM     **Technical sessions: 4A, 4B, 4C and 4D**
- 3.30 PM     Tea Break
- 4.00 PM     **Technical sessions: 5A, 5B, 5C and 5D**
- 5.30 PM     Valedictory Function

# ICoMMS-2006 Technical Sessions Schedule

Venue: City Bay View Hotel, Langkawi.

Date	Time	Bay View Ball Room	Business Centre	Ruby Room	Sapphire Room
15 September 2006	10.30 AM 12.00 PM	Session 1A	Session 1B	Session 1C	Session 1D
	4.00 PM 5.30 PM	Session 2A	Session 2B	Session 2C	Session 2D
16 September 2006	10.00 AM 11.30 AM	Session 3A	Session 3B	Session 3C	Session 3D
	2.00 PM 3.30 PM	Session 4A	Session 4B	Session 4C	Session 4D
	4.00 PM 5.30 PM	Session 5A	Session 5B	Session 5C	Session 5D

Session 1A	Robotics 1
Session 1B	Image Processing 1
Session 1C	Power and Machines
Session 1D	Control 1
Session 2A	Robotics 2
Session 2B	Image Processing 2
Session 2C	Manufacturing
Session 2D	Control 2
Session 3A	Robotics 3
Session 3B	Image Processing 3
Session 3C	Bio-Medical 1
Session 3D	Communication and Interfaces
Session 4A	Bio-Medical 2
Session 4B	Object Recognition 1
Session 4C	Fuzzy and Neural 1
Session 4D	IT
Session 5A	Instrumentation
Session 5B	Object Recognition 2
Session 5C	Fuzzy and Neural 2
Session 5D	Other Applications

SESSION : 1A ROBOTICS 1 CHAIR : Prof. Gamini Dissanayake CO-CHAIR: Prof. R.Nagarajan		DATE :15:09:2006 TIME: 10.30 AM VENUE: BAY VIEW BALLROOM
Paper Number	Paper title	Authors
015	Optimal Trajectory Planning and Energy Minimization of Redundant Manipulators	Atef A. Ata
047	Slytherin: Automated Rechargeable Characteristic Robotic Snake	D.S.Y. Yong Z.Q, Lee M.F.L Foo
116	Tracing Manipulation by Robot Grippers Equipped with Gear Tips (2nd report)	Khairul Salleh Hiroaki Seki Yoshitsugu Kamiya Masatoshi Hikizu
120	Sampling Based Time Efficient Path Planning Algorithm for Mobile Platforms	Tarek Taha, Jaime Valls Miró and Gamini Dissanayake
183	Design and Development PIC-Based Bipedal Walking Robot	Zainah Md. Zain, Hamdan Daniyal and S.M.H.A.S.A. Rahman

SESSION : 1B IMAGE PROCESSING 1 CHAIR: Prof. Madya.Dr. Mohamed Rizon CO-CHAIR: Mr. Charan R		DATE :15:09:2006 TIME: 10.30 AM VENUE: BUSINESS CENTRE
Paper Number	Paper title	Authors
018	Motion Optimization of Vision Guided Manipulator for Optimal Dynamic Performance	M. Herman , M. Azmi Said, Marizan Sulaiman and C.S. Horng
107	Circular Object Detection using Chord Intersection	Haniza Yazid, Mohamed Rizon, Puteh Saad and M.Kartigayan
135	Development of Airship Control System	Darwin Sebayang, Ignatius Agung Wibowo, Lim Kok Ka, and Mohamad Zainal Bin Md. Yusof
179	Fast Detection of Moving Objects in 2D Images	K. Sundaraj and C. Laugier
181	Image Enhancement Using Sigmoid Function for Dark and Overexposed Images	M. A .M Azau, I. Aris and M. A. Mahadi

SESSION : 1C POWER AND MACHINES CHAIR: Prof.Madya. Dr.Paulraj M P CO-CHAIR: Ms. Hema Paulraj		DATE :15:09:2006 TIME: 10.30 AM VENUE: RUBY ROOM
Paper Number	Paper title	Authors
009	Short Term Load Forecasting using Functional Link Neural Network	Muthu Kumaran S, Thyagarajah.K and Paulraj M P
022	Power Quality Analysis and Classification Using Time-Frequency (TF) and Maximum Margin Criterion (MMC)	I. Kamarulafizam, Sh-Hussain, Salleh, S. Sabrina and M. Rushaidin
046	Analysis of Mixed-Mode EMI Noise for Switching Power Supplies	R.Vimala, R.Dhanasekaran, K.Baskaran and M.Rajaram
055	Simplified SVM Approach to Sliding Mode Controller for Three Phase Active Filter	S.Elangovan and K. Baskaran
065	Dynamic Simulation Tool of the Three-Phase Brushless Permanent Magnet AC Motor Drives Using Lab View	C.Bharathiraja, V.Geetha and N.Devarajan

SESSION : 1D CONTROL 1 CHAIR: Prof. M.J.E Salami CO-CHAIR: Ms.Jamilah Karim		DATE :15:09:2006 TIME: 10.30 AM VENUE: SAPPHIRE ROOM
Paper Number	Paper title	Authors
008	Intelligent Book Shelve System using a Combination of RFID and NCTF-Based Controller	Thein Moe Win@ Shamsudin M.J.E Salami Tarig Faisal Wahyudi
026	Temperature Stimulated Real - Time Control of a Stepper Motor	Sheroz Khan, Zarimin Zaharudin, Ismail Adam
027	Development of Control Circuit for Single Phase Inverter Using Atmel Microcontroller	B. Ismail, S.Taib, A.R Mohd Saad, M. Isa, I. Daut
053	Visual Servoing with Application to ROV for Ship Hull Inspection	Zulkifli Zainal Abidin and Mohd Rizal Arshad
032	Sliding Mode Control for Vehicle Stability	Nor Maniha Ghani and Yahaya Md. Sam

SESSION : 2A ROBOTICS 2 CHAIR: Prof. M. Sugisaka CO-CHAIR: Prof. Madya. Dr. Paulraj M P		DATE :15:09:2006 TIME: 4.00 PM VENUE: BAY VIEW BALLROOM
Paper Number	Paper title	Authors
029	Sliding Mode Control of a Hydraulically Actuated Robot Manipulator Using Proportional Integral Switching Surface	Norsinnira Zainul Azlan, Johari Halim Shah Osman and Mohd Noh Ahmad
067	Remote Controlled Rover with Embedded Software Technology	G. Allwinson Paul, S.R.V.Varma and V. Latha Christie
076	Control of Two-wheels Inverted Pendulum Mobile Robot Using Full Order Sliding Mode Control	Nawawi S.W, Ahmad M.N and Osman J.H.S
090	Predictive Nonlinear Control Method for A Mobile Robot with Nonholonomic Constraints	D. Hazry and M. Sugisaka
110	Intelligent Controller Design for the Dynamic Standing Behavior of a Four-link Robot	Jr-Syu Yang, Jhieh-Yuan Liu, Meng-Tian Shih and Chan-Yun Yang

SESSION : 2B IMAGE PROCESSING 2 CHAIR: Prof. Junzo Watada CO_CHAIR: Prof. Madya. Dr. M. Y. Mashor		DATE :15:09:2006 TIME: 4.00 PM VENUE: BUSINESS CENTRE
Paper Number	Paper title	Authors
006	Noncyclic Motion Detection for Surveillance and Autonomous Navigation	Norrima Mokhtar, M.Sugisaka , Siti Rohani S. Raihan and Noraisyah Md. Shah
097	Fusing Range and Intensity Images for Generating Dense Models of Three-Dimensional Environments	Lars-Peter Ellekilde, Jaime Valls Mir'o and Gamini Dissanayake
190	Vehicle Plate Location Detection on Multi-Camera Tracking System	Zalili Binti Musa and Junzo Watada
166	A 3 in 1 Vision System Algorithm for Robot Navigation Blended in a Cup of Java™	Abbas Cheddad and R. Badlishah Ahmad
172	3D Object Recognition Using Multiple Views and Neural Networks	M. Y. Mashor, M. K. Osman and M. R. Arshad
186	Pattern Extraction from Background in Iridology	Ali Chekima, Jamal Ahmad Dargham, Liau Chung Fan, Wan Mahani Abdullah and Lye Wil Liam

SESSION : 2C MANUFACTURING CHAIR: Dr. Afzeri CO-CHAIR: Mr. Shah Fenner		DATE :15:09:2006 TIME: 4.00 PM VENUE: RUBY ROOM
Paper Number	Paper title	Authors
044	Development Standalone SCADA System using Petri Net Algorithm for Batch Process Plant	Mohamad Shaiful Osman, and Yusof Md Salleh
062	Selection of Sub Components from Complex Assembly to Improve Quality and to Minimize Manufacturing Cost for Selective Assembly with Optimum Tolerance Allocation	M. Siva Kumar, SM. Kannan and V. Jayabalan
066	Web based Remote Machining with Virtual 3D Monitoring using auto Setup CNC Milling	Afzeri, A.G. E Sutjipto, Riza Muhida and Atiah A.S
088	The Application of Preventive Replacement Strategy on Machine Component in Deteriorating Condition – A Case Study in the Processing Industries	Rosmaini Ahmad, Shahrul Kamaruddin, Mohzani Mokhtar and Indra Putra Almanar
089	Identifying the Best Fit Failure Distribution and the Parameters of Machine's Component: A New Approach	Rosmaini Ahmad, Shahrul Kamaruddin, Mohzani Mokhtar and Indra Putra Almanar
194	Vectorization Techniques in Printed Circuit Board (PCB) Reverse Engineering – A comparison	Shahrul Azmi, Ruzinoor Che Mat, Ruslizam Daud, Abdul Nasir Zulkifli and Farzana Kabir Ahmad

SESSION : 2D CONTROL 2 CHAIR: Dr. Mohd. Rizal Arshad CO-CHAIR: Mr. Muhajir Abdul Rahim		DATE :15:09:2006 TIME: 4.00 PM VENUE: SAPPHIRE ROOM
Paper Number	Paper title	Authors
061	Modeling and Control of a Balancing Robot using Digital State Space Approach	Herdawatie binti Abdul Kadir, Mohamad Noh Ahmad Fairus Abdollah
109	Development of Airship Control System	Darwin Sebayang, Ignatius Agung Wibowo, Lim Kok Ka and Mohamad Zainal Bin Md. Yusof
119	A Single Axis Servo Motor Control Self Leveling System using Accelerometer Sensor	H.G. Rodney Tan, K.H. Tan, L.K. Moey and T. Lachman
143	An Active Contour for Underwater Target Tracking and Navigation	Muhammad Asif, Mohd. Rizal Arshad, Abid Yahya
145	A Line Following With Obstacle Avoidance Algorithm Using Binarization Technique for Autonomous Agent	Norshuhani Zamin, Low Tang Jung and Sarah Liyana Roseley



SESSION : 3A ROBOTICS 3 CHAIR: Prof. Dr. Amir A. Shafie CO-CHAIR: Ms. Shazmin Abdul Shukor		DATE :16:09:2006 TIME: 10.00 AM VENUE: BAY VIEW BALLROOM
Paper Number	Paper title	Authors
028	The Study of Forward and Inverse Kinematics for KUKA KR3 Industrial Robot	M. Farizal Rajemi and Ruslizam Daud
045	The Accuracy Analysis of Industrial Robot under Loaded Conditions and Various Distance	Ahmad Rasdan Ismail, Syamimi Shamsuddin and Azmi Hassan
081	Development of Humanoid Robot Arm	Amir A. Shafie and Mohd N. Y
082	Development of Humanoid Robot Head	Amir A. Shafie and Kasyfi M. N
164	Design and Development of HVAC Inspection Robot	Tan Chee Fai, Mohd. Radzai Said and Shamsul Anuar Shamsuddin

SESSION : 3B IMAGE PROCESSING 3 CHAIR: Prof. Madya. Dr. M. Y. Mashor CO-CHAIR: Ms. JAMILAH KARIM		DATE :16:09:2006 TIME: 10.00 AM VENUE: BUSINESS CENTRE
Paper Number	Paper title	Authors
024	Evaluation of Lossless Image Compression for Ultrasound images	Boshara M. Arshin, P. A. Venkatachalam and Ahmad Fadzil Mohd Hani
111	Digital Image Compression and Decompression using Three Different Transforms and Comparison of Their Performance	Pabbiseti Sathyanarayana and Hamid R. Saeedipour
048	On Analysis of Invariant Characteristic for Moment Invariant Techniques	Shahrul Nizam Yaakob and Puteh Saad
050	Feature Extraction Comparison Between Zernike Moment Theorem and Fast Fourier Transform Methods on Harum Manis Mango Images	Hasnah Ahmad, Yasmin Yacob, Puteh Saad, Rafikha Aliana A. Raof, and Sabarina Ismail
079	Detection and Removal of Cracks in Digitized Paintings using Top-Hat Transform	S.V.Hemalatha and K. Baskaran
083	Texture Classification Using Contrast and Regularity Technique for Narrow and Broad Weed Discrimination	Kamarul Hawari Ghazali Mohd. Marzuki Mustafa Aini Hussain Asnor Juraiza Ishak
176	Erythrocytes Analysis Using Image Processing Morphological Techniques	Khoo Boon How, Alex See Kok Bin, Ng Teck Siong and Khoo Kong Soo

SESSION : 3C BIO-MEDICAL 1 CHAIR: Prof. Madya. Dr. K. Sundaraj CO-CHAIR: Mr. Nasrul Fazli		DATE :16:09:2006 TIME: 10.00 AM VENUE: RUBY ROOM
Paper Number	Paper title	Authors
042	The Design of Mechatronics Manipulator for Surgical Purposes: Approach and Challenges	Zol Bahri Razali and Zahereel Ishwar
170	Issues on Virtual Reality Medical Robots	K. Sundaraj and C. Mendoza
160	Development of Web-Based Cardiovascular System History Register	N.F. Mohd. Nasir, N.A. Kadri, M.G. Raha, C.A. Azlan
106	Detection of Breast Tumors with Elastography Technique using Active Contour Algorithm	S.Anandan Shanmugam, Edmond Zahedi and Mohd Alauddin Mohd Ali
171	Classification of Breast Lesions using Artificial Neural Network	M.Y. Mashor, S. Esugasini, N.A. Mat Isa and N.H. Othman
175	Red Blood Cell Segmentation Utilizing Various Image Segmentation Techniques	Khoo Boon How, Alex See Kok Bin, Ng Teck Siong and Khoo Kong Soo

SESSION : 3D COMMUNICATION AND INTERFACES CHAIR: Prof. Jr-Syu Yang CO-CHAIR- Mr.Abu Hassan		DATE :16:09:2006 TIME: 10.00 AM VENUE: SAPPHIRE ROOM
Paper Number	Paper title	Authors
056	Telephonic Control of Appliances Using Remote Sensors	T.C.Manjunath and S.Neduncheliyan
159	Virtual Node Based Coverage and Exploration by Multi Agents System and Communication Network	Lakshan Peiris, Adel Al-Jumaily and Hoyun Jiang
016	Design, Configuration and Implementation of a Fieldbus System for Control Application	N. Saad and N. Wahid
093	Analysis of Orthogonal Polynomial based Space-Time Block Code	K.Selvakumar and R.Krishnamoorthy
064	Interface Requirement Characterization of Robot Simulation Software	Habibollah Haron
023	Use of the Circle-Segments Method as a Data Visualization Tool for an Artificial Neural Network	Shir Li Wang, Chee Peng Lim and Zalina Abdul Aziz
117	Recognition of Wide Classes of Hand Gestures for Human Computer Interaction	M.K. Bhuyan, D. Ghosh and P.K. Bora
146	Mathematical Model of Metabolic Energy Consumption for Manual Lifting Works	Mohd Iqbal, Azmi Hassan and Che Hassan Che Haron

SESSION : 4A BIO-MEDICAL 2 CHAIR: Prof. Junzo Watada CO-CHAIR: Mr.Hafis		DATE :16:09:2006 TIME: 2.00 PM VENUE: BAY VIEW BALLROOM
Paper Number	Paper title	Authors
030	Neural Network Classification of Breast Tissues Based on Statistical Features of Mammograms	H.S.Sheshadri and A.Kandaswamy
096	Joint Replacement Surface Treatment in Atmospheric Pressure Plasma Excited by Inductive Storage Pulse Generator	Siti Khadijah, Tetsuya Akitsu and Tomohiro Otagawa
099	Wireless Smart Sensor Network for Emerging Healthcare Applications	Yufridin Wahab, K. Shah, H. P. Le and J. Singh
162	An adapter for post-biopsy radiofrequency cauterization	C.A. Azlan, B.J.J. Abdullah, N.F. Mohd. Nasir, N.A. Kadri, M.S. Faizul, A.A. Saifizul
189	DNA Computing Method for Determination of Distribution Center Location	Rohani Binti Abu Bakar, Don Jyh-Fu Jeng, Ikno Kim and Junzo Watada
191	Radiofrequency Ablation using a Modified Angiographic Catheter-Wire System for the Treatment of Endovascular Diseases	C.A. Azlan, S. Anandan, N.F. Mohd. Nasir, B.J.J. Abdullah, S.Y. Chan and L.L .Lee

SESSION : 4B OBJECT RECOGNITION 1 CHAIR: Prof. Marzuki Khalid CO-CHAIR: Ms. Azizul Mohamad		DATE :16:09:2006 TIME: 2.00 PM VENUE: BUSINESS CENTRE
Paper Number	Paper title	Authors
003	Feature String Generation for Keywords in Tamil Document Images	Abirami.S, Manjula.D
021	Rapid and Storage Efficient Automatic Face Authentication System for Access Control Application	W.-H Yap, Marzuki Khalid and Rubiyah Yusof
035	Automated Historical Jawi Manuscript Reconstruction	Tengku Mohd Afendi, Abd. Rahman Ramli and Mohammad Hamiruce Marhaban
057	Speech Language Engineering Framework for Automatic Generation of Web based User Forms	Imran Sarwar Bajwa, Waqar Aslam and Syed Irfan Hyder
041	Face Recognition using Eigenfaces and Neural Network	Muhammad Firdaus Hashim, Puteh Saad and Mohamed Rizon Mohd Juhari

SESSION : 4C FUZZY AND NEURAL 1 CHAIR: Prof. Momoh J. E. Salami CO-CHAIR: Prof.Madya. Dr. Hamid Adom		DATE :16:09:2006 TIME: 2.00 PM VENUE: RUBY ROOM
Paper Number	Paper title	Authors
010	Adaptive Fuzzy Logic Controller for Air Handling Unit	Nasrodin T. Mustapha and Momoh J. E. Salami
031	Echocardiogram Boundary Enhancement Using Fuzzy Inference System on Multiscale Derivative Images	S. Chan, G. Sainarayanan and R. Nagarajan
123	Fuzzy Logic Dispatching Algorithm for Elevator Group Control	Jafferi Jamaludin, Nasrudin Abd Rahim and Hew Wooi Ping
140	Fuzzy Logic Controller Implementation for an In-Series DC Motor Speed Control	Abu Zaharin Ahmad and Mohd Nasir Taib
167	Takagi-Sugeno Fuzzy Controller Design Via Anfis Architecture For Inverted Pendulum System	A.A. Saifizul, C.A. Azlan and N.F. Mohd Nasir

SESSION : 4D IT CHAIR: Prof. Habibollah Haron CO-CHAIR: Mr. Handy Bin Ali Munir		DATE :16:09:2006 TIME: 2.00PM VENUE: SAPPHIRE ROOM
Paper Number	Paper title	Authors
038	An Efficient Approach to Creating Automation Scripts in Platform-independent Environments	Ahmad Izuddin Zainal Abidin and Mohd Hamzali Azizan
039	Reversible Data Embedding Using Wavelets	H.Bahima Banu and K. Baskaran
052	An Intelligent data storage and retrieval method and its implementation in development of transactional data mining language	A. Muthukumar, R.Nadarajan and M.Nageshwara Gupta
108	Automated Web Pages Classification with Integration of Principal Component Analysis (PCA) and Independent Component Analysis (ICA) as Feature Reduction	Lee Zhi Sam , Mohd Aizaini Maarof and Ali Selamat
141	Improving the Ranking Capability of the Hyperlink Based PageRank Algorithm Using Heuristic Approach	Haider Ramadhan and Khalil Shihab
148	A dynamic, interconnected, web-based GUI for RMAF's airbase logistics	M. Fariz Ramli, A. Fadzil Ismail and Kamaruzaman M. Shariff
169	A Framework for Data Mining Visualization using Cluster Analysis: An Experimental Study on HIV-AIDS Datasets	S. N. Junaini, S. H. Huspi, A. R. Mat and N. A. Bolhassan
054	Enhancing Search Engines Through Intelligent Indexing and Ranking Methods	D.Indumathi, A. Chitra, A. Suresh, and Venkatesh S. Amudhan

SESSION: 5A INSTRUMENTATION CHAIR: Prof. Ju- Jung Lee CO-CHAIR : Prof.Madya. Dr.Paulraj M P		DATE :16:09:2006 TIME :4.00 PM VENUE: BAY VIEW BALLROOM
Paper Number	Paper title	Authors
034	Design Issues of High Performance Switch	A.V. Reddy and Jaidhar C.D
036	OPC for Siemens PLC and Labview Interfacing	Mahfuzah Mustafa, Rosdiyana Samad, Nor Rul H. Abdullah, S. N. S. AB Rahman and A. van Raaij
127	An Electro-Optical Technique for the Measurement of Temperature of High Potential Bodies	Ms T. Ajmal, Mahfoozur Rehman, D. Prasad and M. R. Saad
151	Simulation of Strain in Rectangular Membrane for Piezo-Resistive Sensor	Thangamani U, P R Vaya, N Siva Prasad and Mohd Yunus Hamid
152	Automated Odour Measurement in Electronic Nose System using Microcontroller	Emilia Noorsal, Othman Sidek and Junita Mohamad Saleh
177	A Prototype of an Anthropometric Equipment for Measuring Anthropometric Data in the Sitting Posture	Yanto, Baba Md Deros, Azmi Hassan, Hotma A. Hutahean and Ami Novia
086	Investigation of Standalone Photovoltaic System using LabVIEW Based Test Facility	W. X. Shen, Chan Chui Chui, Alex See Kok Bin, Ong Kok Seng

SESSION : 5B OBJECT RECOGNITION 2 CHAIR: Prof. Sazali Yaacob CO-CHAIR: Prof. Madya. Dr. Mohd.Rizon		DATE :16:09:2006 TIME:4.00 PM VENUE: BUSINESS CENTRE
Paper Number	Paper title	Authors
078	Speaker Dependent Malay Connected Digit Speech Recognition Using Continuous Density Hidden Markov Model	Ting Chee Ming, Sh-Hussain Salleh, A. K. Ariff, Tan Tian Swee and Normaziah A.
063	Multi-module Face Detector for Colour Image Sequences	C. P. Hii, L.S. Yeong and L. M. Ang
043	Length Accumulation on Planar Curve for Shape Defect Detection and Recognition	Musa Mokji and S.A.R. Abu Bakar
071	Speaker Identification using Multi-Class Support Vector Machines: A Comparison with Artificial Neural Network	W.Astuti, AU Priantoro, M.J.E. Salami and Wahyudi
192	Estimating Face Emotions using Genetic Algorithm	M.Karthigayan, Mohamed Rizon, Sazali Yaacob and R. Nagarajan
185	Intensity Normalisation for Skin and Lips Detection	Jamal Ahmad Dargham and Ali Chekima

SESSION : 5C FUZZY AND NEURAL 2 CHAIR: Prof. R.Nagarajan CO-CHAIR: Ms. Hema Paulraj		DATE :16:09:2006 TIME:4.00 PM VENUE: RUBY ROOM
Paper Number	Paper title	Authors
007	Fuzzy Compensator for NCTF Control of PTP Positioning Systems	Wahyudi, T.F. Ibrahim, A. Albagul, M.J.E. Salami and R. Muhida
073	Comparison of Grey Level Co-occurrence Matrix and Histogram Techniques using Neural Network for Automatic Weed Detection	Asnor Juraiza Ishak, Mohd Marzuki Mustafa, Aini Hussain and Kamarul Hawari Ghazali
105	Comparative Study of Fuzzy Logic and Feedforward-Feedback Controllers for Heat Exchanger Temperature Control	Suhaila Badarol Hisham, Muhammad Faizal Jaafar and Rosdiazli Ibrahim
182	Radial Basis Function Networks for Object Recognition in Bin Picking Applications	Hema C.R, R.Nagarajan, Sazali Yaacob and Paulraj M.P.
173	Stream Flow Forecasting Using HMLP Networks For Tasoh River	M.Y. Mashor and R. Abdullah
174	Echocardiogram Boundary Enhancement Using Rule-Based Fuzzy Inference System on Local Image Characteristics	S. Chan, G. Sainarayanan and R. Nagarajan
193	Prediction of Speech Intelligibility in University Classrooms using Feedforward Neural Network	Paulraj M P, Sazali Yaacob, Mohd Kamel Wan Ibrahim and Clarentino L. Aduk

SESSION : 5D OTHER APPLICATIONS CHAIR: Prof. Madya. Dr. Puteh Saad CO-CHAIR: Mr. Mohd Shukry Abd Majid		DATE :16:09:2006 TIME:4.00PM VENUE: SAPPHIRE ROOM
Paper Number	Paper title	Authors
069	Effect of Sensor Length on Wavelength Shift by Fiber Bragg Grating System	Bashir Ahmed Tahir, Jalil Ali and Rosly Abdul Rahman
136	Modeling of a Nonlinear Conical Active Magnetic Bearing System with Rotor Imbalance and Speed Emf	Husain A.R., Ahmad M.N. and Mohd Yatim A.H.
184	Intelligent Course Management System (ICMS)	Jeyarani Periasamy and Zainuddin Hassan
131	Computer-Based Training CBT in Simulated Environment for Motorcycle Engine Diagnosis and Troubleshooting	N.Fadziana F.M, Farzana K.A, Ruzinoor C.M, Yagulawathi T, Norani N and A. Nasir Z
165	Wireless Data Acquisition System based on Single Board Computer	R.Badlishah Ahmad and Nurliayana Musa
188	Life Cycle Costing Approach to LED Traffic Signal Retrofit based on Mean-variance Model	Junzo Watada and Jiang Wei
180	Modeling and Analysis of an Automatic Solar-Powered Plant Watering System	Zawiyah Mokhtar and Erwan Sulaiman
084	Development of GPS Navigation Control for Autonomous Vehicle	Ukifli Husin and H. Mohd Najmuddin