**PROGRAM TENTATIVE**

**Day 1 (27/08/2013)**

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| --- | --- |
| 8:00 - 9:00 | Registration |
|
| 9:00 - 9:30 | Opening ceremony (Astana Ballroom) |
|
| 9:30 - 10:30 | Keynote Speech 1 - Prof. Dr Watanabe Keigo (Astana Ballroom) |
|
| 10:30 - 11:00 | Tea Break |
|
| 11:00 - 13:00 | Parallel Session I (Astana Ballroom, MS 3 & MS 4 Meeting Room, MS 7 Meeting Room) |
| 13:00 – 14:00 | Lunch Break |
| 14:00 - 15:20 | Parallel Session II (Astana Ballroom, MS 3 & MS 4 Meeting Room, MS 7 Meeting Room) |
| 15:20 – 15:40 | Tea Break |
| 15:40 – 17:00 | Parallel Session III (Astana Ballroom, MS 3 & MS 4 Meeting Room, MS 7 Meeting Room) |
| 20:00 – 22:30 | Conference Dinner  |

**Day 2 (28/08/2013)**

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| --- | --- |
| 9:00 - 10:10 | Keynote Speech 1 - Prof. Dr Maki Habib (Astana Ballroom) |
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| 10:10 - 10:40 | Tea Break |
|
| 10:40 - 13:00 | Parallel Session IV (Astana Ballroom, MS 3 & MS 4 Meeting Room, MS 7 Meeting Room) |
| 13:00 – 14:00 | Closing & Lunch  |

**Day 1 (27 / 08 / 2013)**

**VENUE:** ASTANA BALLROOM

|  |  |
| --- | --- |
| 8:00 - 9:00 | Registration |
|
| 9:00 - 9:30 | Opening ceremony |
|
| 9:30 - 10:30 | Keynote Speech 1 - Prof. Dr Watanabe Keigo |
|
| 10:30 - 11:00 | Tea Break |
|

**TECHNICAL SESSION**

**VENUE: ASTANA BALLROOM**

**CATEGORY:** POWER ELECTRONICS

**CHAIR:** MOHD SHAFIE BAKAR / JULIAN SIO

|  |  |  |
| --- | --- | --- |
| Time | Titles | Authors |
| 11:00 - 11:20 | Development of Low Power LED Driver using LTSpice software | Muhammad Ikram Mohd Rashid and Aim Izzuddin Hakimi Mohamad Bekri |
| 11:20 - 11:40 | Design of Power Electronic Converters for Micro Turbine Generator Application | Julian Sio |
| 11:40 - 12:00 | Feasibility Study On Z-Source Inverter Topologies | Mohd Shafie Bakar, Nasrudin A.Rahim, Kamarul Hawari Ghazali and Abdul Halim Mohd Hanafi |
| 12:00 - 12:20 | Photovoltaic System with INC MPPT Algorithm in MATLAB Simulink | Fatimah Zaharah Hamidon, Siti Nor Shafiqin Shariffuddin, Pusparini Dewi Abd. Aziz and Noor Hidayah Mohd Yunus |
| 12:20 - 12:40 | Multiple Input Bidirectional Isolated Triple Half-Bridge DC-DC Converter for Electric Vehicle | Tan Boon Kai and Tan Nadia Mei Lin |
| 12:40 - 13:00 | Design and Development of Multilevel Inverter Using Hybrid Topology for Voltage Waveform Improvement | Dr. Samikannu Ravi, Ahmad Mujahid Ahmad Zaidi, Suresh Thanakodi |
| 13:00 – 14:00 | LUNCH BREAK |

**CATEGORY:** POWER SYSTEM

**CHAIR:** MOHD HERWAN SULAIMAN / MUHAMAD HATTA HUSSAIN

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| --- | --- | --- |
| Time | Titles | Authors |
| 14:00 - 14:20 | Optimal Placement of Static VAR Compensator Using Artificial Immune System | Mohd Herwan Sulaiman and Nurita Mohamad |
| 14:20 - 14:40 | Optimal Overcurrent Relay Coordination Using Particle Swarm Optimization | Muhamad Hatta Hussain, Ismail Musirin, Siti Rafidah Abdul Rahim, Ahmad Farid Abidin and Azralmukmin Azmi |
| 14:40 - 15:00 | Optimization of CCGT Power Plant and Performance Analyisis using MATLAB/Simulink Based Simulation | Jitendra Nath Rai, Rishabh Kumar Gupta, Rajesh Garai and Rahul Kapoor |
| 15:00 - 15:20 | Comparison of Statistical Methods on Load and Price Forecasting in the New England Power Electricity Market | Ioannis Kangas, Christina Nikolopoulou and Afshin Afshari |
| 15:20 – 15:40 | TEA BREAK |

**CATEGORY:** COMPUTER VISION & AI APPLICATIONS

**CHAIR:** ISMAIL IBRAHIM / YASMIN ABDUL WAHAB

|  |  |  |
| --- | --- | --- |
| Time | Titles | Authors |
| 15:40 - 16:00 | Noise Elimination for Image Subtraction in Printed Circuit Board Defect Detection Algorithm | Ismail Ibrahim, Zuwairie Ibrahim, Hamzah Ahmad, Zulkifli Md. Yusof, Kamal Khalil, Sophan Wahyudi Nawawi, Muhammad Arif Abdul Rahim and Syed Abdul Rahman Syed Abu Bakar |
| 16:00 - 16:20 | Thermal Imaging Analysis of Human Detection for Night Vision System | Noor Amira Syuhada Mahamad Salleh and Kamarul Hawari Ghazali |
| 16:20 - 16:40 | Application of Ultrasonic Tomography to Display Tomogram of Liquid/solid Flow Regime by using Linear Back Projection | Rubiah Ahmad and Yasmin Abdul Wahab |
| 16:40 - 17:00 | A Multi-Agent Computational Problem Solving Paradigm | Teh Noranis Mohd Aris and Shahrin Azuan Nazeer |

**VENUE: MS 3 & MS 4 MEETING ROOM**

**CATEGORY:** HV APPLICATIONS

**CHAIR:** WAN ISMAIL IBRAHIM / ZENAT EHSAN

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| --- | --- | --- |
| Time | Titles | Authors |
| 11:00 - 11:20 | Investigation of Core Type Distribution Transformer Operation using Artificial Neural Networks | Jalil Ghahramani and Seyed Siavash Karimi Madahi |
| 11:20 -11:40 | Pekan Lightning Detection System (PLDS) and Data Validation with Lightning TNBR | Wan Ismail Ibrahim |
| 11:40 -12:00 | DEVELOPMENT OF SINGLE-STATION EARLY WARNING LIGHTNING ALARM SYSTEM | Wan Ismail Ibrahim |
| 12:00 - 12:20 | Investigations of Concrete Structures under Sulfate Rich Environment by Electric Resistivity Method | Zenat Ahsan, Zamri Chik, Taohidul Islam and Aqilah Hamidon |
| 12:20 - 12:40 | STUDY ON SOIL CAPACITANCE WITH SOIL APPARENT RESISTIVITY FOR SOIL CHARACTERIZATIONS | Taohidul Islam, Zamri Chik, Zenat Ahsan and Hilmi Sanusi |
| 12:40 –13:00 | Characterization of Palm Oil Ashes for Earthing Purpose | Mohamad Rosyidi Ahmad and Prof Hussein Ahmad |
| 13:00 – 14:00 | LUNCH BREAK |

**CATEGORY:** ENERGY &HV APPLICATIONS

**CHAIR:** MOHD RUSLLIM MOHAMED / NOOR LINA RAMLI

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| --- | --- | --- |
| Time | Titles | Authors |
| 14:00 - 14:20 | Future Energy Consumption In Malaysia | Normazlina Mat Isa and Normazlina Mat Isa |
| 14:20 - 14:40 | Alternative Filtering Procedure for the Partial Discharge Signal in Solid Dielectric Insulation Using Indirect Approach | Pusparini Dewi Abd Aziz, Fatimah Zaharah Hamidon, Norhafiza Mohamad and Noor Hidayah Mohd Yunus |
| 14:40 - 15:00 | Study of tides prediction for Malaysia electricity generation purposes using Matlab Simulink | Noor Lina Ramli, Puteri Nurul Izreena Megat Shukri, Suliana Ab Ghani and Syahrizal Azmir Md Sharif |
| 15:00 - 15:20 | LED Traffic Light with Single Display | Noor Lina Ramli, Muhammad Ikram Mohd Rashid, Suliana Ab Ghani and Farah Syazana Roslan |
| 15:20 - 15:40 | Energy Management System for Series Hybrid Electric Vehicle | Ai Chia Khor and Mohd Rusllim Mohamed |
| 15:40 – 16:00 | TEA BREAK |

**CATEGORY:** ROBOTICS & AUTOMATIONS I

**CHAIR:** IRAWAN ADDIE / HAMZAH AHMAD

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| --- | --- | --- |
| Time | Titles | Authors |
| 16:00 - 16:20 | Mobile Robot Target Following With Intelligent Control | Nurul Atikah Zainal |
| 16:20 - 16:40 | An Effective Mobile Robot Positioning In Scheme In Indoor Environment | Noor Zahida Amera Abd Rasid |
| 16:40 - 17:00 | Polystyrene Foam-based Leg Tip Strider Robot | Ai Chern Lim and Irawan Addie |

**VENUE:** MS 7 MEETING ROOM

**CATEGORY:** COMPUTER ENGINEERING

**CHAIR:** SUNIL OJHA / JAIGANESH MAHALINGAM

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| --- | --- | --- |
| Time | Titles | Authors |
| 11:00 - 11:20 | Cyber Crime in Indian scenario- a literature snapshot | Janhavi Deshmukh and Surbhi Chaudhari |
| 11:20 - 11:40 | A Perspective view of hypervisor architecture, functions, issues in cloud computing. | Jaiganesh Mahalingam and Vincent Antony Kumar |
| 11:40 - 12:00 | Optimization of SRAM Column With Respect To Power And Delay Using 50nm Technology | Sunil Ojha and Pukhraj Vaya |
| 12:00 - 12:20 | Novel Method for Reduction of PAPR of MIMO-OFDM based on Non-Linear Companding Transform | Srinivasarao Kandula and Prabhakar Rao |
| 12:20 - 12:40 | Extended Fully Distributed Cluster Based Routing Protocol for Mobile ADHOC Networks | Rohini Ravi and Gnanmurthy R.K |
| 12:40 - 13:00 | Evaluation Of Traffic on Load Balanced Routing Protocols in Ad-hoc Networks | Zurkarmawan Abu Bakar and Nima Bahrami |
| 13:00 – 14:00 | LUNCH BREAK |

**CATEGORY:** IMAGE PROCESSING

**CHAIR:** KAMARUL HAWARI / RAZALI DAUD

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| --- | --- | --- |
| Time | Titles | Authors |
| 14:00 - 14:20 | Application of Noise Removal Technique of Squamous Epithelial Cells Detection in Sputum Slide Images | Fatin Izzwani Azman, Kamarul Hawari Ghazali and Rosyati Hamid |
| 14:20 - 14:40 | Electrocardiogram Paper Digitization Using Image Extraction Techniques | Hussain K. Khleaf, Kamarul H. Bin Gazali and Ahmad N. Abdalla |
| 14:40 - 15:00 | Elevator’s Door Shapes Detection by Using Image Processing Method | Wan Nur Farhanah Wan Zakaria and Dr Mohd Razali Daud |
| 15:00 - 15:20 | Detection of Emergency Vehicle using HSV Color Space Technique for Intelligent Traffic Light System | Mohammad Syawaludin Syafiq Hassan |
| 15:20 – 15:40 | TEA BREAK |

**CATEGORY:** CONTROL APPLICATIONS & SIGNAL PROCESSING

**CHAIR:** AZRUL MAHFURDZ / RAMIN VATANKHAH

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| --- | --- | --- |
| Time | Titles | Authors |
| 15:40 - 16:00 | Feature Extraction for swiftlet sound attraction | Siti Nurzalikha Zaini Husni Zaini, Sunardi and Kamarul Hawari Ghazali |
| 16:00 - 16:20 | Target Strength Identification of Green Turtle and Fish Using Modified EchoSounder | Azrul Mahfurdz |
| 16:20 - 16:40 | In Pursuing Better Academic Results In University: A Case of Fuzzy Logic | Nurul Ain Mohd Asri |
| 16:40 - 17:00 | Vibration Suppression of Size-Dependent Modified Couple stress Timoshenko Micro-Beams | Ramin Vatankhah, Ali Najafi, Hassan Salarieh and Aria Alasty |

**Day 2 (28 / 08 / 2013)**

**VENUE:** ASTANA BALLROOM

|  |  |
| --- | --- |
| 9:00 - 10:10 | Keynote Speech 1 - Prof. Dr Maki Habib |
|
| 10:10 - 10:40 | Tea Break |
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**TECHNICAL SESSION**

**VENUE:** ASTANA BALLROOM

**CATEGORY:** ELECTRONICS & COMMUNICATIONS

**CHAIR:** FAHMI SAMSURI / VIKNESWARY JAYAPAL

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| --- | --- | --- |
| Time | Titles | Authors |
| 10:40 - 11:00 | Development of Quality of Service In Wireless Sensor Network With Integrated Gateway Node Control Algorithm | Rohini Ravi and Dr. R.K.Gnanamurthy |
| 11:00 - 11:20 | Abnormality Detection and Segmentation of Cervical Cancer Cells | Sukumar Ponnusamy and Dr.R.K.Gnanamurthy Ranganathan |
| 11:20 - 11:40 | PROVIDING SECURE COMMUNICATION WITH REDUCED ENERGY CONSUMPTION IN WIRELESS SENSOR NETWORKS | C.Anand Chenniyappan and R.K.Gnanamurthy Ranganathan |
| 11:40 - 12:00 | Variation and the Characteristic of Total Electron Content over Malaysia during the Declining Phase of Solar Cycle 23 | Vikneswary Jayapal and Ahmad Faizal Mohd Zain |
| 12:00 – 12:20 | Third Order Sallen-Key Low Pass Filter Optimization using Genetic Algorithm | Norafinie Abd Rashid and Siew Chin Neoh |
| 12:20 - 12:40 | Patient’s Health Monitoring Using Power Line Communication Technology | Sridhathan and Dr. Fahmi Samsuri |
| 12:40 – 14:00 | LUNCH |

**VENUE:** MS 3 & MS 4 MEETING ROOM

**CATEGORY:** ROBOTICS & AUTOMATIONS II

**CHAIR:** SAIFUDIN RAZALI / ARWINDER SINGH

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| --- | --- | --- |
| Time | Titles | Authors |
| 10:40 - 11:00 | The Importance of Cross-Correlation and its Effect to Mobile Robot Localization | Hamzah Ahmad, Nur Aqilah Othman and Saifudin Razali |
| 11:00 -11:20 | Designing and building of a prototype multi-fingered robotic hand and wrist | Arwinder Singh |
| 11:20 - 11:40 | Studying Different Methods of Making Line Follower Robot and Presenting a High Precision and Speed Pattern with Color Recognition Capability | Masoud Alipour Shirazi |
| 11:40 - 12:00 | Tip-over Stability Enhancement for Omnidirectional Mobile Robot with ADWCs | Muhammad Juhairi Aziz Safar, Keigo Watanabe, Shoichi Maeyama and Isaku Nagai |
| 12:00 - 12:20 | Proposal of a Machining Robot for Foamed Polystyrene Molds | Fusaomi Nagata, Akimasa Otsuka, Kousuke Nakamura and Keigo Watanabe |
| 12:20 - 12:40 | A Brief Review of Latest Fish Robots | Masaaki Ikeda, Shigeki Hikasa, Keigo Watanabe and Isaku Nagai |
| 12:40 - 13:00 | Intelligent System Design for Mobile Robot: A Case of Fuzzy Logic Approach for Palm Oil Industries | Zulaikha Abdullah and Hamzah Ahmad |
| 13:00 – 14:00 | LUNCH |

**VENUE:** MS 7 MEETING ROOM

**CATEGORY:** CONTROL APPLICATIONS

**CHAIR:** MAZIYAH MAT NOH / MOHD ZAIDI MOHD TUMARI

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| --- | --- | --- |
| Time | Titles | Authors |
| 10:40 - 11:00 | Experimental Investigation on Active Sway Control of a Gantry Crane System using PID Controller | Mohd Zaidi Mohd Tumari, Latifah Shabudin,Mohd Razali Daud and Mohd Anwar Zawawi |
| 11:00 - 11:20 | Analysis of Intermittent Measurement for KF-based SLAM | Nur Aqilah Othman, Hamzah Ahmad and Saifudin Razali |
| 11:20 - 11:40 | Weighted Ratio Scheme for GA Optimization in Fourth Order Multiple Feedback High Pass Filter | Zher Hui Teoh and Siew Chin Neoh |
| 11:40 - 12:00 | Offline Optimization of Gains for Kinodynamic Motion Planning | Kimiko Motonaka, Keigo Watanabe and Shoichi Maeyama |
| 12:00 - 12:20 | Continuous Motion NCTF Control of a One Mass Rotary System | Rozilawati Mohd Nor and Chong Shin Horng |
| 12:20 - 12:40 | Control of Two DoF USM Underwater Glider (USMUG) | Maziyah Mat Noh,Mohd Rizal Arshad andRosmiwati Mohd-Mokhtar |
| 12:40 – 13:00 | Comparison between Artificial Bee Colony Algorithm, Shuffled Frog Leaping Algorithm and Nero-Fuzzy System in Design of Optimal PID Controllers | Fatemeh Masoudnia, Somayyeh Nalan and Maryam Kouzehgar |
| 13:00 – 14:00 | LUNCH |