

TECHNICAL PROGRAM SCHEDULE

Day 1: Monday, 1st April 2019

Technical Session: TS1-R1

Time: 14:00-15:30

Room: Dewan Musytari

Chairperson: Assoc. Prof. Ir. Dr Siti Anom Ahmad

Paper	Title & Authors
106	<p>Invited Speaker 1: Assoc. Prof. Dr. Siti Norul Huda Sheikh Abdullah <i>Universiti Kebangsaan Malaysia (UKM)</i></p> <p>Multilevel Thresholding of Brain Tumor MRI Images: Patch-Levy Bees Algorithm versus Harmony Search Algorithm <i>Farah Aqilah Bohani, Ashwaq Qasem, Siti Norul Huda Sheikh Abdullah, Khairuddin Omar, Shahnorbanun Sahran), Rizuana Iqbal Hussain, Syaza Sharis (Universiti Kebangsaan Malaysia & Hospital Canselor Tuanku Muhriz)</i></p>
108	<p>Calcification Detection using Convolutional Neural Network Architectures in Intravascular Ultrasound Images <i>Hannah Sofian, Joel Chia Ming Than, Suraya Muhammad, Norliza Mohd Noor (Universiti Teknologi Malaysia & Universiti Kuala Lumpur)</i></p>
118	<p>A Colour Recognition Device for the Visually Disabled People <i>Norazila Othman, Mohd Zarhamdy Md. Zain, Iskandar Shah Ishak, Abd Rahim Abu Bakar, Mastura Ab Wahid, Maziah Mohamad (Universiti Teknologi Malaysia)</i></p>
135	<p>Wavelet Transform based Features of Skin Blood Flow Response Signal for Pressure Ulcer Evaluation <i>Saliza Ramli, Raja Mohd Kamil Raja Ahmad, Siti Anom Ahmad, Norhafizah Mohtarrudin, Rozi Mahmud (Universiti Putra Malaysia)</i></p>
136	<p>A Review on Different Steganalysis Techniques <i>Muhamad Fadhil Ahmad Zaki, Haslina Md Sarkan, Nurulhuda Firdaus Mohd Azmi, Saiful Adli Ismail, Ribhan Zafira Abdul Rahman (Universiti Teknologi Malaysia & Universiti Putra Malaysia)</i></p>

Technical Session: TS1-R2

Time: 14:00-15:30

Room: Titan 1

Chairperson: Assoc. Prof. Ir. Dr Mohd Khair Hassan

Paper	Title & Authors
127	<p>Invited Speaker 2: Assoc. Prof. Dr. Shamsul Aizam Zulkifli <i>Universiti Tun Hussein Onn Malaysia (UTHM)</i></p> <p>Investigation of Multilevel Inverter for Next Distributed Generation Using Low Cost Microcontroller <i>Shamsul Aizam Zulkifli, Epha Yusriyanna Riyandra, Suriana Salimin, Ahmed Naji Zaidan (Universiti Tun Hussein Onn Malaysia)</i></p>
126	<p>Robust Operation of Microgrid Energy System Under Uncertainties and Demand Response Program <i>Sahar Seyyedeh Barhagh, Behnam Mohammadi-Ivatloo, Kazem Zare, Ali Frazamnia (University of Tabriz & Universiti Malaysia Sabah)</i></p>
103	<p>Energy Management System in Battery Electric Vehicle Based on Fuzzy Logic Control to Optimize the Energy Consumption in HVAC System <i>Abdulhadi Abdulsalam Abulifa, Azura Che Soh, Mohd Khair Hassan, Raja Mohd Kamil Raja Ahmad, Mohd Amran Mohd Radzi (Universiti Putra Malaysia)</i></p>

116	Design of Fuzzy Logic Based Load Shedding for Home Energy Management Base on Battery Level in Standalone System <i>Oyinkanola Lateef Adewale, Sawal Hamid Bin MD Alli Aremu Olaosebikan A (Universiti Kebangsaan Malaysia & The Polytechnic, Ibadan, Nigeria)</i>
157	Hybrid Signal Processing and Machine Learning Algorithm for Adaptive Fault Classification of Wind Farm Integrated Transmission Line Protection <i>Osaji Emmanuel, Mohammad Lutfi Othman, Hashim Hizam, Muhammad M. Othman, Elhadi Aker, Okeke Chidiebere. A, T Nwagbara Samuel .O(Universiti Putra Malaysia & Universiti Teknologi MARA)</i>

Technical Session: TS1-R3	
Time: 14:00-15:30	
Chairperson: Assoc. Prof. Ir. Dr Raja Mohd Kamil Raja Ahmad	
Room: Titan 2	
Paper	Title & Authors
149	Invited Speaker 3: Assoc. Prof. Ir. Dr. Hazlina Selamat <i>Universiti Teknologi Malaysia (UTM)</i> Crowd Modeling and Simulation for Safer Building Design <i>Hazlina Selamat, Nurulaqilla Khamis, Nuritaasma Mohd Ghani (Universiti Teknologi Malaysia)</i>
130	Implementation of Swarm Intelligence Algorithm for Dynamic System Modelling <i>Muhamad Sukri Hadi , Siti Khadijah Ali, Intan Zaurah Mat Darus (Universiti Teknologi MARA, Universiti Putra Malaysia & Universiti Teknologi Malaysia)</i>
110	Shortest Path Algorithm for Guidance System Based on Dijkstra-Ant Colony Algorithm <i>Karimeh Ibrahim Mohammad Ata, Azura Che Soh, Asnor Juraiza Ishak, Haslina Jaafar(Universiti Putra Malaysia)</i>
141	An Improved Control Rod Selection Algorithm for Core Power Control at Reaktor TRIGA PUSPATI <i>Mohd Sabri Minhat, Nurul Adilla Mohd Subha, Fazilah Hassan, Norjulia Mohamad Nordin (Malaysian Nuclear Agency & Universiti Teknologi Malaysia)</i>
144	Prediction model of Leptospirosis Occurrence for Seremban (Malaysia) using Meteorological Data <i>Fariq Rahmat, Asnor Juraiza Ishak, Zed Zulkafli, Hazlina Yahaya, Afiah Masrani(Universiti Putra Malaysia)</i>

Technical Session: TS2-R1	
Time: 16:00-17:30	
Chairperson: Dr Siti Khadijah Ali	
Room: Dewan Musytari	
Paper	Title & Authors
151	Invited Speaker 4: Dr. Mohamad Hanif Md Saad <i>Universiti Kebangsaan Malaysia (UKM)</i> CA-Annotator : A Manual Video Annotator Tool for Assisting the Development of Event Detection Algorithm from CCTV Feed <i>Mohamad Hanif Md Saad, Rabiah Adawiyah Shahad & Aini Hussain (Universiti Kebangsaan Malaysia)</i>
101	Exploited Contour Based Tracking for Driveway Entrance Counting System <i>Siti Norul Huda Sheikh Abdullah, Abbas Salimi Zaini, Bedir Yilmaz, Azizi Abdullah, Nor Sakinah binti Md Othman, Shariffpudin Basiron(Universiti Kebangsaan Malaysia & Synergy Saver (M) Sdn Bhd)</i>
148	Development of Fall Detection and Activity Recognition using Threshold Based Method and Neural Network

	<i>Sai Siong Jun, Hafiz Rashidi Ramli, Azura Che Soh, Noor Ain Kamsani, Raja Kamil Raja Ahmad, Siti Anom Ahmad, Asnor Juraiza Ishak(Universiti Putra Malaysia)</i>
123	Vibration Control of FSAE Quarter Car Suspension Test Rig Using Magnetorheological Damper <i>Muhammad Adhar Bagus, Azizan As'arry, Hesham Ahmed Abdul Mutaleb Abas, Abdul Aziz Hairuddin, Mohd Khair Hassan(Universiti Putra Malaysia)</i>
133	Detection of Cardiac Sounds Components: A Pilot Study <i>Norezmi Jamal, Nabilah Ibrahim, MNAH Sha'abani, Zulkifli Taat(Universiti Tun Hussein Onn Malaysia)</i>

Technical Session: TS2-R2	
Time: 16:00-17:30	
Chairperson: Dr Haslina Jaafar	
Room: Titan 1	
Paper	Title & Authors
152	Invited Speaker 5: Dr. Julia Abdul Karim <i>Malaysian Nuclear Agency(ANM)</i> Preliminary Study of Pipe Failure Rate in the Water-Cooled Reactors (WCR) Using Fault Detection of Simulated Test-Rig <i>Julia Abdul Karim, Tonny Lanyau, Mazleha Maskin, Mohd Azrol Syafiee Anuar, Azura Che Soh, Ribhan Zafira Abdul Rahman (Malaysian Nuclear Agency & Universiti Putra Malaysia)</i>
128	Wild Goats Optimization Approach for Capacitor Placement Problem <i>Hamid Teimourzadeh, Behnam Mohammadi-Ivatloo, Ali Frazamnia(University of Tabriz, Iran & Universiti Malaysia Sabah)</i>
147	Artificial Neural Network Model and Fuzzy Logic Control of Dissolved Oxygen in a Bioreactor <i>Nor Hana Mamat, Samsul Bahari Mohd Noor, Laxshan A/L Lamar, Azura Che Soh, Farah Saleena Taip, Ahmad Hazri Ab. Rashid(Universiti Putra Malaysia, TATI University College & SIRIM Berhad)</i>
150	Random Missing Tooth Error Detection in Crankshaft Function of an Engine Control Unit <i>Fatimah Abd, Rahman, Amesh Eromal Gomes, Noor Ain Kamsani, Roslina Mohd Sidek, Shaiful Jahari Hashim, Fakhrol Zaman Rokhani, Mohd Suffian Zamali, Farhan Mohamed Ali(Universiti Putra Malaysia & FSR Technology Sdn Bhd)</i>
142	The Comparison of Bound-Constrained and Positivity-Constrained Optimization Method to Estimate Head Tissue Conductivities by Scalp Voltage Information <i>Chollanant Khattiyawech, Natnicha Keatsiritawon, Taweechai Ouypornkochagorn (Srinakharinwirot University, Thailand)</i>

Technical Session: TS2-R3	
Time: 16:00-17:30	
Chairperson: Dr Asnor Juraiza Ishak	
Room: Titan 2	
Paper	Title & Authors
109	A Comparative Study of LQR Based and Sliding Mode Control Strategies for Tracking Control of Robotic Manipulators <i>N. M. H. Norsahperi, K. A. Danapalasingam (Universiti Putra Malaysia & Universiti Teknologi Malaysia)</i>
138	Development of Real-time Electromyography Controlled 3D Printed Hand Robot Prototype

	<i>Mohamad Aizat Abdul Wahit, Fatimahtul Zahrah Romzi, Siti Anom Ahmad, Mohd Hamiruce Marhaban, Chikamune Wada(Universiti Putra Malaysia & Kyushu Institute of Technology)</i>
137	Development of Translation and Rotational Movement for Tremor Test Rig to Imitate Human Hand Tremor <i>Reem Musab, Azizan As'arry, Hesham Ahmed Abdul Mutaleb, Khairil Anas Md Rezali, Nawal Aswan Abdul Jalil, Raja Mohd Kamil Raja Ahmad(Universiti Putra Malaysia)</i>
143	Modelling and Controlling of Lower Limb Exoskeleton <i>Naagajoothi A P Adin Naraina, Asnor Juraiza Ishak, Azura Che Soh, Siti Anom Ahmad, Mohd Razali Mohammad Sapiee, Madihah Binti Mohd Zin(Universiti Putra Malaysia & Universiti Teknikal Malaysia Melaka)</i>
154	Modelling and validation of an Electronic Wedge Brake system with realistic Quarter Car Model for Anti-Lock Braking System Design <i>Mehrullah Soomro, Mohd Khair Hassan, Fauzi Ahmad(Universiti Putra Malaysia & Universiti Teknikal Malaysia Melaka)</i>
158	Modelling of Lower Limb Exoskeleton Robot for Walking Simulation <i>M.R. Sapiee, M.A.A. Wahit, M.H. Marhaban, A.J Ishak, M.F. Miskon(Universiti Putra Malaysia & Universiti Teknikal Malaysia Melaka)</i>

Day 2: Tuesday, 2nd April 2019

Technical Session: TS3-R1	
Time: 14:00-15:30 Room: Dewan Musyitari	
Chairperson: Dr Hafiz Rashidi Harun @ Ramli	
Paper	Title & Authors
146	Invited Speaker 6: Dr. Slamet Riyadi <i>Universitas Muhammadiyah Yogyakarta (UMY)</i> Classification of Mangosteen Surface Quality Based on Image Processing Using Support Vector Machine <i>Slamet Riyadi, Cahya Damarjati, Nuri Primas, Tony K. Hariadi, Indira Prabasari, Nafi Ananda Utama, Ku Ruhana Ku-Mahamad(Universitas Muhammadiyah Yogyakarta & Universiti Utara Malaysia)</i>
105	Texture Based Image Splicing Forgery Recognition Using Passive Approach <i>Asif Hassan, V K Sharma(Bhagwant University, Ajmer, India)</i>
111	A Review of Hybrid Indoor Positioning System Using WLAN Fingerprint and Image Processing <i>Firdaus, Noor Azurati Ahmad, Shamsul Sahibuddin(Universiti Teknologi Malaysia & Universitas Islam Indonesia)</i>
115	Comparison on BER Performance of OFDM Signal under Difference Modulation and Fading Channels <i>Ali Farzammia, Wong Jenn Hoe, Ervin Gubin Mounq(Universiti Malaysia Sabah)</i>
122	Characterization of Local Perennial Herbs Growth for Smart Vertical Farming <i>Nooryani Abdul Salim, Marsyita Hanafi, Siti Mariam Shafie, Syamsiah Masohor, Norhashila Hashim(Universiti Putra Malaysia)</i>

Technical Session: TS3-R2	
Time: 14:00-15:30 Room: Titan 1	
Chairperson: Dr Ribhan Zafira Abdul Rahman	
Paper	Title & Authors
155	Invited Speaker 7: Dr. Zaihan Bin Mohd Zin <i>Universiti Malaysia Kuala Lumpur France Institute (UniKL MFI)</i>

	<p>Comparative Study of Machine Learning Algorithms and Correlation Between Input Parameters <i>Muhammad Syafiq Alza bin Alias, Norazlin Binti Ibrahim, Zalhan Bin Mohd Zin (Universiti Malaysia Kuala Lumpur)</i></p>
156	<p>Improvement of LMS Adaptive Noise Canceller Using Uniform Poly-Phase Digital Filter Bank <i>Alaa Hadi Mohammad, Azura Che Soh, Noor Faezah Ismail, Ribhan Zafira Abdul Rahman, Mohd Amran Mohd Radzi (Universiti Putra Malaysia)</i></p>
145	<p>Smart automatic irrigation and watering system using IoT <i>A. T. Mohammed, A. J. Ishak, M. I. Al-Hiyali (Universiti Putra Malaysia)</i></p>
107	<p>Chest X-Ray Image Classification on Common Thorax Diseases using GLCM and AlexNet Deep Features <i>Tengku 'Afiyah Mardhiah Tengku Zainul Akmal, Joel Chia Ming Than, Haslailee Abdullah, Norliza Mohd Noor (Universiti Teknologi Malaysia)</i></p>
153	<p>A Promising Wavelet Decomposition –NNARX Model to Predict Floods: Application to Kelantan River Flood <i>Mohd Azrol Syaftee Anuar, Ribhan Zafira Abdul Rahman, Samsul Bahari Mohd, Azura Che Soh, Zed Diyana Zulkafli (Universiti Putra Malaysia)</i></p>

Technical Session: TS3-R3	
Time: 14:00-15:30	
Room: Titan 2	
Chairperson: Mr. Mohd Izhwan Mohamad	
Paper	Title & Authors
117	<p>Acceptance of Electronic Health Records in Traditional Malay Medicine: An Exploratory Prototyping Approach <i>Raja Rina Raja Ikram, Mohd Khanapi Abd Ghani, Lizawati Salahuddin, Mohd Hariz Mohd Naim, Ariff Idris, Nor Afirdaus Zainal Abidin, , Nadiah Ishak, Noor Raihan Ab Hamid, Syazwani Itri Amran (Universiti Teknikal Malaysia Melaka, City University Malaysia & UNITAR)</i></p>
119	<p>A Conceptual Integrated Health Information Systems Framework in Postnatal Care for Modern and Traditional Malay Medicine <i>Raja Rina Raja Ikram, Mohd Khanapi Abd Ghani, Lizawati Salahuddin, Mohd Hariz Mohd Naim, Ariff Idris, Nor Afirdaus Zainal Abidin, , Nadiah Ishak, Noor Raihan Ab Hamid, Syazwani Itri Amran (Universiti Teknikal Malaysia Melaka, City University Malaysia & UNITAR)</i></p>
134	<p>Improving Convolutional Neural Network (CNN) Architecture (miniVGGNet) with Batch Normalization and Learning Rate Decay Factor for Image Classification <i>Asmida Ismail, Siti Anom Ahmad, Azura Che Soh, Khair Hassan, Hazreen Haizi Harith (Universiti Putra Malaysia & Universiti Perguruan Sultan Idris)</i></p>
131	<p>Design and Calibration of Pinch Force Measurement Using Strain Gauge for Post-Stroke Patients <i>Abdallah Alsayed, Raja Kamil, Hafiz Rashidi Ramli, Azizan As'array (Universiti Putra Malaysia)</i></p>
139	<p>A Comparative Study for Bandwidth on Demand Using ONOS Reactive and Intent Forwarding <i>Fathul Arif Kamarudin, Megat Norulazmi Megat Mohamed Noor, Fuead Ali (Universiti Kuala Lumpur)</i></p>