

Parallel Sessions

Session A1 - Industry 4.0

Venue: CRAR2005

Time	Paper code	Title of paper Authors
11:00-11:20	133	Popularity of University based on Sentiment Analysis in Social Network Media Koh, Chiu-Lin; Haw, Su-Cheng; Soon, Lay-Ki
11:25-11:45	141	Intelligent Maintenance Prioritization and Optimization Strategies for Thermal Power Plant Boilers: A Review Alnaimi, Firas Basim Ismail; Ahmad Fuzi, Noor Fazreen
11:50-12:10	144	Look for Me: Location Based Information Mobile Assistant for Blind People Ang, Yan Jun
12:15-12:35	178	Usable Authentication Methods For Seniors Singh, Jaspreet; Kam, Yvonne Hwei-Syn; Goh, Vik Tor
12:40-13:00	205	Industrial Revolution 4.0 and its implications for asset management in the broadcasting industry Ponnan, Ramachandran; Abdullah, Azween; Supramaniam, Mahadevan

Session A2 - Industry 4.0

Venue: CRAR2006

Time	Paper code	Title of paper Authors
11:00-11:20	147	An Innovative Approach for a 3D Virtual Map Creator Using Ultrasonic Sensors Array Thu Soe, Min; Elsayed, Mahmoud Mohamed; Wai Kit, Wong; Abdalla, Hana
11:25-11:45	152	The Use Of VARI, GLI, and VIGreen Technique on Detecting Vegetation Part Of An Aerial Image Lim, Soon Eng; Hashim, Wahidah; Ismail, Rozita; Baharum, Aslina
11:50-12:10	166	Awareness of cloud computing in Malaysia construction industry Goh, Kai Chen; Bilal, Kamalludin; Goh, Hui Hwang; Mohamed, Sulzakimin; Chai, Chang Saar; Gui, Hun Chuen
12:15-12:35	168	Integration Precision and Unmanned Aerial Vehicles Technology in Oil Palm Management System Development Goh, Kai Chen; Sim, Sy Yi; Sam, Toong Hai; Bilal, Kamalludin; Goh, Hui Hwang; Mohamed, Sulzakimin
12:40-13:00	220	Real-Time Volume Rendering Interaction in Virtual Reality Kalarat, Kosin

Session A3 – Electrical Engineering

Venue: CRAR2007

Time	Paper code	Title of paper Authors
11:00-11:20	116	PSO Fined-tuned Model-Free PID Controller with Derivative Filter for Buck-Converter Driven DC Motor Mohd Tumari, Mohd Zaidi; Zainal Abidin, Amar Faiz; A Subki, A Shamsul Rahimi; Ab Aziz, Ab Wafi; Ahmad, Mohd Ashraf; Ghaz...
11:25-11:45	122	Non-Invasive Measurement of Blood Glucose Level Using Micro Near Infra-Red Sensing Solihin, Mahmud Iwan
11:50-12:10	159	Feedforward Artificial Neural Network For Predicting Voltage Stability Indices In Power Systems Sim, Sy Yi; Chua, Qing Shi; Goh, Hui Hwang; Ling, Chin Wan; Goh, Kai Chen; Chien, Siong Kai; Cham, Chin Leei
12:15-12:35	155	Smart Home Meters with Load Demand Management Authentication, Restriction, Shock Protection and Fault Proof Krishnan, Shashikumar; Chinthakunta, Venkateshaiah; Sim, Kok Swee

Session A4 – Wireless and Telecommunications

Venue: CRAR3006

Time	Paper code	Title of paper Authors
11:00-11:20	224	Contention Window and Residual Battery Aware Multipath Routing scheme in MANETs Dimiyati, Kaharudin
11:25-11:45	135	Adaptive Redundancy-based Transmission for Wireless Sensor Networks Ng, Jin Ren; Goh, Vik Tor; Yap, Timothy Tzen Vun; Shuib, Mustafa Kamal
11:50-12:10	171	High Flat Gain Over An Octave Bandwidth Class F RF Power Amplifier Design Using 10W GaN HEMT Ruslan, Noor Syakirah; Yusoff, Zubaida
12:15-12:35	187	Throughput Analysis for Non-Orthogonal Multiple Access (NOMA)-Based 5G Networks Abuajwa, Osama; Chee Keong, Tan; Ching Kwang, Lee
12:40-13:00	198	Adaptive User Clustering for Downlink Non-Orthogonal Multiple Access (NOMA)-Based 5G Systems Using Brute-force Search Prabha, S.; Tan, C.K.; Lee, C K

Session A5 – Nano and Micro Electronics

Venue: CRAR3007

Time	Paper code	Title of paper Authors
11:00-11:20	176	Carrier Transport Properties of GaN in High Electric Field Cheang, Pei Ling; Wong, Eng Kiong; Teo, Lay Lian
11:25-11:45	200	Zinc Oxide (ZnO) Nanoparticles For Removal Of Arsenic From Water Hassan, Merghani Magdi; Devaraj, Nisha Kumari; Wen, Wong Wei; Zaman, A.S.M. Mukter
11:50-12:10	213	Performance Evaluation of Low Cost Analog Feedback Active Noise Cancellation System Soo, Joon Yee; Pang, Wai Leong
12:15-12:35	229	Dependance of Gunn Diode Performance on Electron Negative Mobility in GaN Lee, Wen Zhao; Ong, Duu Sheng; Choo, Kan Yeep

Session B1 – Industry 4.0

Venue: CRAR2005

Time	Paper code	Title of paper Authors
15:20-15:40	203	Enhancing Privacy for Big Data in Healthcare Domain: A Review on Cryptographic and Decentralized Technology Approaches Tahir Yinka, Olaosebikan; Haw, Su-Cheng; Chan, Gaik-Yee
15:45-16:05	192	BIM Integration in Augmented Reality Model Saar, Chai; Kuppusamy, Sivaraman; Yusof, Aminah; Shien, Lim
16:10-16:30	189	Preventing and Rectifying Cloud Quality of Service Violation Through Adaptive Resource Scaling and Replication Wong, Tong-Sheng; Chan, Gaik-Yee; Chua, Fang-Fang
16:35-16:55	217	Approaches to Eye Gaze Interaction for Authentication Kam, Yvonne; Kwong, Kar Wing; Goh, Vik Tor

Session B2 – Industry 4.0

Venue: CRAR2006

Time	Paper code	Title of paper Authors
15:20-15:40	151	Seamless Personnel Authentication using Facial Recognition and Identity-Based Identification on Mobile Devices Tan, Jun-Ren; Chin, Wai-Kit; Chin, Ji-Jian; Goh, Vik-Tor
15:45-16:05	197	PHP Frameworks Usability in Web Application Development A. Haris, Norhaidah; Hasim, Nurdatillah
16:10-16:30	186	Anomaly Detection for Home Activity based on Sequence Pattern Poh, Soon-Chang; Tan, Yi-Fei; Cheong, Soon-Nyeon; Ooi, Chee-Pun; Tan, Wooi-Haw
16:35-16:55	209	Acoustic Pornography Recognition Using Fused Pitch and Mel-Frequency Cepstrum Coefficients Banaeeyan, Rasoul; Abdul Karim, Hezerul; Lye, Haris; Ahmad Fauzi, Mohammad Faizal; See, John; Mansor, Sarina

Session B3 – Electrical Engineering

Venue: CRAR2007

Time	Paper code	Title of paper Authors
15:20-15:40	160	Analysis of Social Economic Impact on The Energy Consumption of Myanmar Sim, Sy Yi; Goh, Hui Hwang; Ili Najaa Aimi, Mohd Nordin; Ling, Chin Wan; Goh, Kai Chen; Sim, Gia Yi
15:45-16:05	161	Assessment of Hydropower Generation in Small Scale River Sim, Sy Yi; Goh, Hui Hwang; Ronny Wong, Hoe Gi; Goh, Kai Chen; Ling, Chin Wan; Sim, Gia Yi
16:10-16:30	193	Design of Miniature Machine Vision Module for Small Mobile Robots Kung, Fabian

Session B4– Nano- and Micro- Electronics / Photonics and Optics

Venue: CRAR3006

Time	Paper code	Title of paper Authors
15:20-15:40	177	Investigation of electroluminescence from MEH-PPV OLED Attia, Ibrahim Hassan; Ong, Guang Liang; Nee, Chen Hon; Yap, Seong Shan
15:45-16:05	175	Model dispersion analysis of circular waveguide in normal and reverse boundary condition Pillay, Shamini; Kumar, Deepak; Yeong Nan, Phua
16:10-16:30	145	In-line Mach-Zehnder Interferometer based on Hybrid Structures for Refractive Index Sensing Mohd Nasir, Amirul Hasan; Mokhtar, Mohd Ridzuan
16:35-16:55	191	Hardware-based Sobel Gradient Computations for Sharpness Enhancement Kho, Cheok Kiang; Fauzi, Mohammad Faizal Ahmad; Lim, Sin Liang

Session C1 – Industry 4.0

Venue: CRAR2005

Time	Paper code	Title of paper Authors
11:00-11:20	173	LoRa Driven Home Security System for Residential Community in Retirement Township Sherif, Abubaker; Sherif, Suheib; Tan, Wooi Haw; Ooi, Chee Pun
11:25-11:45	206	Automated Nudity Recognition using Very Deep Residual Learning Network Banaeeyan, Rasoul; Abdul Karim, Hezerul; Lye, Haris; Ahmad Fauzi, Mohammad Faizal; See, John; Mansor, Sarina
11:50-12:10	170	Vehicle Classification using Convolutional Neural Network for Electronic Toll Collection Wong, Zi Jian; Goh, Vik Tor; Yap, Timothy Tzen Vun; Ng, Hu
12:15-12:35	223	Interactive Marker-based Augmented Reality for CPR Training Boonbrahm, Poonpong; Kaewrat, Charlee; Boonbrahm, Salin
12:40-13:00	231	Hand Gesture Recognition from RGB Video Data Using Morphological Process Farid, Fahmid Al; Hashim, Noramiza; Abdullah, Junaidi

Session C2 – Industry 4.0**Venue: CRAR2006**

Time	Paper code	Title of paper Authors
11:00-11:20	216	Robustness Security of Data Hiding for H.265/HEVC Video Streams Ting, Grace C.-W.; Goi, Bok-Min; Lee, Sze-Wei
11:25-11:45	201	Model-based XML to Relational Database Mapping Choices Song, Emyliana; Haw, Su-Cheng; Chua, Fang-Fang
11:50-12:10	218	IoT-Based Smart Energy Management System for Residential Sayed Abdullah, Syed Ahmad Hafidz; Tayeh, Ahmed
12:15-12:35	117	Development of A Multi-Client Student Attendance Monitoring System Pang, Jia Yi; Low, Kwee Yee; Wong, Hwee Ling

Session C3– Electrical Engineering**Venue: CRAR2007**

Time	Paper code	Title of paper Authors
11:00-11:20	139	Demand-Side Management for Load Scheduling With Time-Varying Voltage in Smart Grid Mansor, Mohd Nazrin; Tan, Wooi-Nee; Gan, Ming-Tao; Yip, Sook-Chin; Wong, Hwee-Ling
11:25-11:45	121	A Systematic Approach for the Design of Earthing System for Low-voltage Installations Siow, Chun Lim; Yousef, Al-Shawesh
11:50-12:10	162	Estimation of Energy Efficiency for Hydropower Generator Sim, Sy Yi; Goh, Hui Hwang; Ronny Wong, Hoe Gi; Mohd Muzaffar, Zahar; Goh, Kai Chen; Ling, Chin Wan; Sim, Gia Yi
12:15-12:35	128	Design of A Substation Grounding System for Fast Front Overvoltage Studies Lee, Kelvin Yuan Jet; Ngu, Eng Eng; Nor, Normiza Mohamad

Session C4 – Wireless and Telecommunications**Venue: CRAR3006**

Time	Paper code	Title of paper Authors
11:00-11:20	211	Improved Load Balancing for LTE-A Heterogeneous Networks using Particle Swarm Optimization Summakieh, MHD Amen; Keong, Tan Chee; A. El-Saleh, Ayman; Chuah, Teong Chee
11:25-11:45	219	Demonstration of an All-Optical-Based Hybrid Visible Light Communication Backbone and Hotspot for Wireless Data Broadcasting Salha, Anas Samer; Yuet, Cheong Mei; Ee, Lee It; Chin, Chung Gwo; Leong, Pang Wai
11:50-12:10	222	Dynamic Spectrum Algorithm Based on Distance for D2D Communications Nizam, Fareha; Alhammedi, AbdulRaqeb; Yusoff, Zubaida; Roslee, Mardeni bin
12:15-12:35	225	Development of Scaled Real Time Augmented Reality Sandbox Muhyialdeen A, Aljabal Fahad; Abdul Karim, Hezerul
12:40-13:00	227	Converged Radio-over-Fibre and OFDM-PON based on Single Side Band Frequency Translation Technique Dahawi, Taha Hussein; Yusoff, Zulfadzli; Shaddad, Redhwan; Senior, John