TENTATIVE PROGRAMME

ICSSA 2018 – HILTON KUCHING, SARAWAK

DAY 1 (24th July 2018, Tuesday)	
TIME	**DESCRIPTIONS**
07:30 – 08:30	Registration **Ballroom**
08:30 – 09:00	**Welcoming and Opening Address** Norliza Mohd Noor (Conferences General Chair) Sha'ri Mohd Yusof (Dean, Razak Faculty of Technology and Informatics) **Ballroom**
09:00 – 10:00	**Main Plenary Speaker** Measurement and Instrumentation at the Tissue: Machine Interface Andrew Taberner (University of Auckland, New Zealand) **Ballroom**
10:00 - 10:15	**IEEE HAC Plenary Speaker** Challenges and Opportunities of Bio-Signal based Humanitarian Technology in Sustainable Development Space Shaikh Fattah (Education Chair, IEEE Humanitarian Activities Committee) **Ballroom**
10:15 – 10:20	Photo Session **Ballroom**
10:20 – 10:35	Morning Break **Foyer Ballroom**
10:50 – 12:30	**Session 1 (D1.S1)** Measurement, Control and Optimization Chairperson: Annisa Jamali **Rajawali**
10:50 - 11:10	1570432741: Network Reconfiguration using Modified Particle Swarm Algorithm
11:10 – 11:30	1570457072: Modeling of a Flexible Beam System using NARMAX Model Integrated with Multi-Objective Optimization Differential Evolution
11:30 - 11:50	1570436587: Development of Stereo Matching Algorithm based on Guided Filter
11:50 - 12:10	1570435162: Review of Taxi Cab Service Optimization in Petaling Jaya, Malaysia Based On Demand and Offer
12:10 - 12:30	1570458784: Simultaneous Heat and Mass Transfer in Kek Lapis Sarawak Baking
12:30 – 13:45	Lunch **Waterfront Café**
13:45 – 14:45	**Keynote Speaker** IoT Technology for Agriculture – Today and Beyond Ahmad Nizar Harun (MIMOS Berhad, Malaysia) **Rajawali**

14:00 – 16:30	IEEE Humanitarian Activities Committee (HAC) Program Berjaya	
14:00 – 14:20	Sha'ri Mohd Yusof (Dean, RFTI, UTM)	Razak Faculty of Technology and Informatics (RFTI): Initiatives and Commitment on Humanitarian Activities
14:20 – 14:40	Shaikh Fattah (Bangladesh University of Egineering and Technology)	Humanitarian Project Design and Implementation: Key Factors of Humanitarian Technologies and Sustainable Development
14:40 – 15:00	Chong Yu Zheng (UTAR Bandar Sg Long)	Journey in IEEE-HTA, and IEEE-SIGHT
15:00 – 15:20	Mohd Nabil Muhtazaruddin (Razak Faculty of Technology and Informatics, UTM)	Royal Belum Solar Project
15:20 – 15:40	Hemly Hazmi (Public Health Medicine Specialist, UNIMAS)	The Future of Public Health: What's in Store for Us?
14:45 – 14:50	ICSSA Group Photo Session Rajawali	
14:50 – 16:30	Session 2 (D1.S2) IoT and 4th Industrial Revolution Towards Smart Factories Chairperson: Norliza Mohamed Rajawali	
14:50 - 15:10	1570433701: IR 4.0 using IoT and LORAWAN to Accelerate Lentinula Edodes Growth	
15:10 - 15:30	1570433770: Bird Counting and Climate Monitoring using LoRaWAN in Swiftlet Farming for IR 4.0 Applications	
15:30 - 15:50	1570432083: Design and Implementation of an IOT based Monitoring System for Inland Vessels using Multiple Sensors Network	
15:50 - 16:10	1570438660: Dynamic Resource Allocation Strategy for Low Cost Smart Parking System	
16:10 - 16:30	1570453991: The Implementation of IoT based Smart Refrigerator System	
16:30 – 16.45	Afternoon Break Foyer	
17:00 – 19:00	Conference Dinner *Sarawak River Cruise-Departing from the Kuching Waterfront Jetty	
19:00	End of Day 1 Conference	

*Participants are advice to be at the Kuching Waterfront Jetty latest by 5:15 pm.
*The cruise departs at 5:30 pm.

DAY 2 (25th July 2018, Wednesday)		
07:30 – 08:30	Registration **Rajawali**	
08:30 – 09:30	**Invited Speaker** Rehabilitation Robot for Post-stroke Patient: Technology, Product, and Challenges Kushsairy Bin Abdul Kadir (Universiti Kuala Lumpur British Malaysian Institute, Malaysia) **Rajawali**	
09:30 – 10:30	**Session 3 (D2.S3)** Environment and Health Care System Chairperson: Robiah Ahmad **Rajawali**	
9:30 - 9:50	1570433022:	Wireless IMU: A Wearable Smart Sensor for Disability Rehabilitation Training
9:50 - 10:10	1570437030:	Comparison of Various Varying Mechanism Version for Modified Nodal Array Approach in Foot Plantar Pressure Measurement System
10:10 - 10:30	1570437694:	Military Uniform for Health Analytics for Field Intelligent Zone (MUHAFIZ)
10:30 – 10:45	Morning Break **Foyer**	
10:50 – 12:30	**Session 4 (D2.S4)** Towards Renewable and Sustainable Energy Chairperson: Ana Sakura Zainal Abidin **Rajawali**	
10:50 - 11:10	1570427921:	Temperature Distribution Study for Malaysia Broiler House
11:10 – 11:30	1570438502:	Mass Rapid Transit Elevated Stations as Solar Electricity Generation
11:30 - 11:50	1570445386:	Hybrid Power Supply System for Telecommunication Base Station
11:50 - 12:10	1570445571:	Harvesting Sustainable Energy from Salt Water: Part I - Effect of Types of Electrodes
12:10 - 12:30	1570438743:	ElectriCare - Care, Protection & Automation
12:30 – 13:45	Lunch **Waterfront Café**	

13:45 – 15:25	**Session 5 (D2.S5)** Monitoring and Control in Smart Factories Chairperson: Mohd Azri Mohd Izhar **Rajawali**		**Session 6 (D2.S6)** Smart Sensors and Transducers Chairperson: Rasli Muslimen **Berjaya**	
13:45 - 14:05	1570431565:	Double Sampling Control Charts for Monitoring the Coefficient of Variation	1570434391:	Development of Chitosan-Roselle Sensing Material for Detection of Ammonia Gas

14:05 - 14:25	1570440717:	Smart Monitoring and Auto-Neutralization of pH of Alkaline Liquids in Process Industries	1570434916:	Investigation of Radial Piezoelectric-Magnetic Fan (RPMF) Performance for Electronic Cooling System
14:25 - 14:45	1570434280:	Application of UAV and Low Power Wide Area Communication Technology for Monitoring of River Water Quality	1570432639:	Terrestrial Land Rover with Dedicated Website
14:45 - 15:05	1570444869:	Analysis on Tuning Strategy of pH Control Process in Paper Industries	1570434302:	Implementation of Operational Amplifier for the Designing of Novel Piezoresistive Pressure Sensor
15:05 - 15:25			1570435989:	A Novel Approach for the Investigation of Flash Floods using Soil Flux and CO2: An Implementation of MLP with Less False Alarm Rate
15:30 – 15:45	Afternoon Break **Foyer**			
15:45 – 17:30	**Session 7 (D2.S7)** Software Development, Evolutionary Computation and System Identification Chairperson: Sathiabama T Thirugnana **Rajawali**			
15:45 - 16:05	1570428142:	Design and Implementation of an Automated Multi-Functional Attendance System with Real Time Web Visualization		
16:05 - 16:25	1570459438:	Utilizing P-Type ILA in Tuning Hybrid PID Controller for Double Link Flexible Robotic Manipulator		
16:25 - 16:45	1570455467:	The Petrophysical Relationship between the Dielectric Permittivity and Water Content of Peat Soil Moisture Measurements		
16:45 - 17:05	1570431863:	Reference Evapotranspiration Estimation in Tropical Region using Penman-Monteith Equation and Evolutionary Computation		
17:05 - 17:25	1570434266:	Girth Measuring Device and System Based on RFID/WSN Technologies in Rubber Plantation: A Preliminary Data		
17:30	End of Day 2 Conference			

DAY 3 (26th July 2018, Thursday)
9:00 – 12:00	Tutorial **1. IoT and Cloud Application for Data Acquisition** Ahmad Nizar Harun (Director of Technical Marketing and Solutions, MIMOS Berhad, Malaysia) **2. Engineering Design Optimization – Theory & Applications** Robiah Ahmad (Razak Faculty of Technology and Informatics, Universiti Teknologi Malaysia Kuala Lumpur) **Tutorial Room 3 (TR3), Faculty of Engineering, UNIMAS**
9:00 – 12:00	Tutorial **Wireless Networks Analysis for IoT** Khoirul Anwar (Director of Center for Advanced Wireless Technologies (AdWiTech), Telkom University, Bandung, Indonesia) **Tutorial Room 4 (TR4), Faculty of Engineering, UNIMAS**
9:00 – 12:00	Tutorial **Machine Learning for Beginners** Norliza Mohd Noor (Razak Faculty of Technology and Informatics, Universiti Teknologi Malaysia Kuala Lumpur) **Tutorial Room 5 (TR5), Faculty of Engineering, UNIMAS**
9:00 – 12:00	Tutorial **IEEE HAC Education Workshop** **Humanitarian Project Design to Serve Local Community using Advanced Technologies for Sustainable Development** Shaikh Fattah (Education Chair, IEEE Humanitarian Activities Committee) **Tutorial Room 2 (TR2), Faculty of Engineering, UNIMAS**
City Tours *(Optional)*	
End of Conference (ICSSA 2018)	