



**First UMS Colloquium on Fundamental Research
and Application (UMS-CoFA2020)
17 August 2021, Kota Kinabalu**



First Universiti Malaysia Sabah Colloquium on Fundamental Research and Application 2020
(UMS-CoFA2020)
17 August 2021
Kota Kinabalu, Sabah, Malaysia.

Opening Speech by The Honorable Minister of Science, Technology and Innovation Sabah

Main Event Program

Time	Program
8:25 - 8:30 am	Virtual arrival of all participants and invited guests
Opening Ceremony Begin	
8:30 - 8:35 am	Welcoming Remarks by YBhg. Associate Professor Ts. Dr. Ramzah Dambul, Deputy Vice Chancellor for Research and Innovation, Universiti Malaysia Sabah
8:35 - 8:45 am	Opening Remarks by YBhg. Professor Datuk ChM. Ts. Dr Taufiq Yap Yun Hin, Vice Chancellor, Universiti Malaysia Sabah
8:45 - 9:00 am	Opening Speech by Yang Berhormat Datuk Haji Yakub Khan, Minister of Science, Technology and Innovation Sabah
9:00 - 9:30 am	Keynote Presentation 1 Professor Dr. Helen Benedict Lasimbang, Director, Universiti Malaysia Sabah Hospital (UMSH) Keynote title: The Impact of COVID-19 on the Voiceless Groups of Sabah
Opening Ceremony End and Parallel Presentation Begin	
9:35 am - 12:35 pm	Parallel Presentation Session 1 (<i>please refer to respective session link</i>)
Lunch Break (Personal Accord)	
1:25 - 1:30 pm	Virtual arrival of all participants
1:30 - 2:00 pm	Keynote Presentation 2 Professor Dr. Rosazman Bin Hussin, Director, Borneo Institute For Indigenous Studies (BORIIS) Keynote title: Community-Based Ecotourism and Social Innovation for Rural Community Development
2:00 - 5:15 pm	Parallel Presentation Session 2 (<i>please refer to respective session link</i>)
5:15 - 5:30 pm	Closing Speech
Colloquium End	

UMS-CoFA2020 Program Summary

Time	Program						
8.25 - 9.00 am	Opening Ceremony						
9:00 - 9:30 am	<p style="text-align: center;">Keynote Presentation 1 Professor Dr. Helen Benedict Lasimbang Director, Universiti Malaysia Sabah Hospital (UMSH) Keynote title: The Impact of COVID-19 on the Voiceless Groups of Sabah</p>						
Parallel Presentation Session 1							
	PAPER ID						
	Session 1A <i>Economic Impact and Responses to COVID-19</i>	Session 1B <i>Social Impact and Responses to COVID-19</i>	Session 1C <i>Agriculture, Food and Bio-technology</i>	Session 1D <i>Energy and Material</i>	Session 1E <i>Information and Communication Technology</i>	Session 1F <i>Computer Modelling and Assessment</i>	Session 1G <i>Signal and Image Processing</i>
9:35 - 9:50am	FPEP01	FPEP05	FSMP02	FKJ09	FKI03	FKI05	FKI06
9:50 - 10:05am	FPEP06	FKI18	FSMP03	FKJ11	FKI10	FKJ03	FKI17
10:05 - 10:20am	FPEP07	BorIIS02	FSMP08	FKJ12	FKI12	FKJ04	FKI25
10:20 - 10:35am	FPEP09	BorIIS03	FSMP09	FKJ15	FKI13	FKJ07	FKI27
10:35 - 10:50am	FPEP10	BorIIS04	FSMP10	FKJ20	FKI15	FKJ10	FKI30
10:50 - 11:05am	FPEP12	BorIIS07	FSMP11	FKJ22	FKI16	FKJ13	FKI39
11:05 - 11:20am	FSSK11	PPIB02	FSMP12	FKJ24	FKI19	FKJ21	FKJ08
11:20 - 11:35am	FKI02	PPIB11	FSMP13	FKJ26	FKI21	FKJ23	FKJ31
11:35 - 11:50am	PPIB01	FSSK04	IPB01	FKJ27	FKI22	FKJ25	FKJ33
11:50am - 12:05pm	PPIB04	FSSK05	IPB04	FKJ35	FKI28	FKJ32	FSSA01
12:05 - 12:20pm	PPIB05	FSSK08	FKI07	PPST05	FKI31	FKJ34	FSSA02
12:20 - 12:35pm	PPIB06	FSSK09	FKJ36	PPST06	FKI34	FPT01	PPST02
Lunch Break (Personal Accord)							
1:30 - 2:00 pm	<p style="text-align: center;">Keynote Presentation 2 Professor Dr. Rosazman Bin Hussin Director, Borneo Institute For Indigenous Studies (BORIIS) Keynote title: Community-Based Ecotourism and Social Innovation for Rural Community Development</p>						
Parallel Presentation Session 2							
	PAPER ID						
	Session 2A <i>Indigenous and Local Knowledge 2A</i>	Session 2B <i>Indigenous and Local Knowledge 2B</i>	Session 2C <i>Indigenous and Local Knowledge 2C</i>	Session 2D <i>Human and Resources Management</i>	Session 2E <i>Education, Technology and Awareness</i>	Session 2F <i>Environmental and Management</i>	
2:00 - 2:15pm	FSMP01	FSSK10	PPIB03	FPP01	FSMP06	IPB02	
2:15 - 2:30pm	FSMP04	FKI08	PPIB07	FPEP02	FSSK06	FKI20	
2:30 - 2:45pm	FSMP05	FKI23	PPIB08	FPEP03	FKI01	FKJ06	
2:45 - 3:00pm	FSMP07	FKI40	PPIB09	FPEP08	FKI04	FKJ14	
3:00 - 3:15pm	FPEP04	BorIIS01	PPIB10	FKI24	FKI09	FKJ16	
3:15 - 3:30pm	FPEP11	BorIIS05	FPT02	FKI33	FKI11	FKJ17	
3:30 - 3:45pm	FPEP13	BorIIS06	FPT03	FKI35	FKI14	FKJ18	
3:45 - 4:00pm	IPMB02	BorIIS08	PPST01	FKI37	FKI26	FKJ19	
4:00 - 4:15pm	FSSK01	BorIIS09	PPST03	FKI38	FKI29	FKJ29	
4:15 - 4:30pm	FSSK02	BorIIS10	PPST07	FKJ01	FKI32	FKJ37	
4:30 - 4:45pm	FSSK03	FKJ02	IPB03	FKJ28	FKI36	FPL01	
4:45 - 5:00pm	FSSK07	FKJ05	IPMB01	FKJ30	PPST04	FPL02	
5:00 - 5:15pm			FSSA03				
5:15 - 5:30pm	Closing Ceremony						
<p style="text-align: center;">END OF UMS-CoFA2020 Till we meet again</p>							

Session 1A: Economic Impact and Responses to COVID-19

Paper ID	Author/s (#Presenter)	Title
FPEP01	Salmah Topimin#, Siti Rahayu Mohd Hashim	An overview of Government Business Support Programs for Micro and Small Businesses in Malaysia During the COVID-19 Crisis
FPEP06	Borhan Abdullah#, Rostika P. Boroh, James Alin, Kasim Mansur, Roslina Mahmud	The Effect of COVID-19 Lockdown on Homestay Operators in Mesilou Village, Kundasang- A concept Paper
FPEP07	Nor Fzlinda Binti Fabeil#, Juliana Langgat, Khairul Hanim Pazim, Roslinah Mahmud	Distribution Channel for Local Farm based Produce: A Study on Small Farmers During Pandemic Crisis
FPEP09	Sidah Idris#, Nelson Lajuni, Al-Nasri Weli, Siti Hajar Samsu, Charlie Albert	Innovative Value Chain: Solution To Enhance Company Performance During Pandemic COVID-19 MCO in Sabah
FPEP10	Jia Qi Cheong#, Wong Hock Tsen, Kasim Mansur	COVID-19 E-commerce Comparison in Experiences and Overcoming Between Countries
FPEP12	Jaratin Lily#, Sidah Idris, Abdul Rahman Yaakob, Zuraidah Jamrin, Nurfarhana Mohd Saidi	Sabah TAMU Operator's Intention to Stay in the Current Business Due to COVID-19 Pandemic: A Preliminary Results
FSSK11	Harifah Mohd Noor#, Jabil MapJabil, Adilah Md Ramli, Jurry Foo @ Jurry Bt F. Michael, Ubong Imang, Rima Abdul Rahman, Nazihyah Asli	Impak Dan Kesempaan Bantuan Kerajaan Terhadap Usahawan PKS Dalam Tempoh Pasca Pandemik COVID-19 – Satu Penelitian Awal.
FKI02	Siti Hasnah Tanalol, Aslina Baharum#, Nordin Saad, Januarius Gobilik, Mohd Nasir Samsulbahri	MyAgriShop App: Linking Rural Farmers with Consumers To Increase Vegetable Sale and Improve Food Distribution During Covid-19 Pandemic and Beyond.
PPIB01	Kennedy Aaron Aguol#, Kavitha Ganesan, Anantharaman Govindasamy, Jane Wong Kon Ling, Shaffarullah Abdul Rahman, Jamsari Hashim	Digital Gastronomic Heritage of Multi-racial melting Pot in Foh Sang Market Post COVID-19
PPIB04	Abang Mohd. Razif Abang Muis#, Saidatul Sahirah Adam, Abdul Hair Beddu Asis, Syamsul Azizul Marinsah, Musmuliadi Kamaruding, Mohd Syahmir Alias, Mohamad Zulfakhairi Mokthar	Ke Arah Pembangunan Model Adaptasi Komuniti Pengeluar Tanaman Makanan Pasca COVID-19
PPIB05	Yin Ling Adeline Tam#, Tung Moi Chiew, Bing Zhu, Felix Septianto	Online Consumption Behaviour Changed During COVID-19 Pandemic in Malaysia: The Important Facts and Figures
PPIB06	Jamsari Hashim#, Kennedy Aaron Aguol, Kavitha Ganesan, Anantharaman Govindasamy, Jane Wong Kon Ling, Shaffarullah Abdul Rahman	Reinvigorating Indigenous Music Tourism in Sabah Post COVID-19
End of Session 1A		

Session 1B: Social Impact and Responses to COVID-19

Paper ID	Author/s (#Presenter)	Title
FPEP05	Lim Fui Beatrice Lim#, Roslinah Mahmud, Khairul Hanim Pazim, Cheong Jia Qi, Noor Faziedah Chun Lee	Could Work From Home Arrangement Increase Female Labour Force Participation in Malaysia?
FKI18	Chong Joon Hou, Mohd Khairulanwar Rizalman, Maisarah Mohd Sufian, Ervin Gubin Moug#	The Effect of Moment-Invariant on COVID-19 Detection System.
BorIIS02	Jabil Mapjabil#, Nor-Ina Kanyo, Abentin Estim, Rosazman Hussin, Datu Razali Datu Eranza, Abdul Hamid Abdul Rahim, Badariah Ab Rahman, Natasya Farhana Nazry, Mohd. Halipah Jetendra	Tahap Pengetahuan Dan Ketersediaan Komuniti Semasa Tempoh Perintah Kawalan Pergerakan (PKP) Kesan Penularan Pandemik COVID-19 Di Kampung Kasuapan, Pulau Gaya, Sabah.
BorIIS03	Nor-Ina Kanyo#, Ahmad Tarmizi Abdul Rahman, Jabil Mapjabil, Rosazman bin Hussin, Jalihah Md Shah, Suhailah Abdul Muin, Oliver Valentine Eboy, Budi Anto Mohd Tamring, Datu Razali bin Datu Eranza, Nur Fitriaida Jamali, Jashmaira binti Kipli	Reaksi Dan Pengalaman Masyarakat Pulau Gaya Semasa Pelaksanaan Perintah Kawalan Pergerakan COVID-19 Di Kota Kinabalu, Sabah.
BorIIS04	Gaim James Lunkapis#, Kursam Ongui	Preliminary assessment on the usability of the Rapid Social Impact Assessment Matrix (RSIA) method to managed the Pandemic COVID-19.
BorIIS07	Ahmad Tarmizi Abdul Rahman#, Nor-Ina Kanyo, Jabil Mapjabil, Rosazman bin Hussin, Jalihah Md Shah, Suhailah Abdul Muin, Oliver Valentine Eboy, Budi Anto Mohd Tamring, Datu Razali bin Datu Eranza, Nur Fitriaida Jamali, Jashmaira binti Kipli	Langkah-Langkah Keselamatan Semasa Pelaksanaan PKP Covid-19 Di Pulau Gaya, Kota Kinabalu, Sabah.
PPIB02	Halina Sendera Mohd Yakin#, Odetta Mashita Yahcob, Andreas Totu, Suraya Sintang, Siti Aidah Lokin, Junaidah Januin, Kwan Yien Yee, Siti Hasnah Tanalol	The Function and Implication of Internet Centre towards the rural community in the era of Covid-19 Pandemic: A Case Study in the Northwest Coast of Sabah
PPIB11	Suraya Sintang#, Keigley Lyod Al-Ganiyy K. Diaz	NGO-Agama dan Program Musa'adah COVID-19 dalam Menyantuni Golongan B40 di Sabah
FSSK04	Dzurizah Ibrahim#, Marsitah Mohd. Radzi, Colonius Atang, Oliver Valentine Eboy, Kee Y Sabariah Kee Mohd Yussof, Badariah Saibeh	Work-From-Home and Employment Relations 1 during COVID-19 MCO in Malaysia
FSSK05	Sri Ningsih Sukirman#, Jabil Mapjabil, Maryama Ag. Daud, Rosli Sareya, Soffriezan Yahya, Patricia Jipoh	Resilien dan Adaptasi Penggiat Seni Dalam Membudayakan Persembahan Seni Secara Talian (Digital) Sebagai Normal Baharu Pasca COVID-19
FSSK08	Badariah Saibeh#, Mohd Soffian Osman, Gusni Saat, Mohd Lutfi Hafifi Japili	Pengetahuan COVID-19 dan Perintah Kawalan Pergerakan (PKP) Komuniti di Pulau Mabul, Semporna, Sabah.
FSSK09	Oliver Valentine Eboy#, Haryati Abd Karim, Lizalin Kalang	Mapping The Potential Pattern Of COVID-19 Disease Risk Using Spatial Analysis In Kota Kinabalu, Sabah.

End of Session 1B

Session 1C: Agriculture, Food and Bio-technology

Paper ID	Author/s (#Presenter)	Title
FSMP02	Fan Hui Yin#, Lee, J.S., Mansoor Abdul Hamid, Hasmadi Mamat, Md Jahurul Haque Akanda, Siti Faridah Mohd Amin	Potential of Fruits for the Production of Vinegar with Functional Properties
FSMP03	Ai Ling Ho#, Chen Er Wong, Chee Kiong Siew	Effect of Selected Spices On <i>In Vitro</i> Digestibility of Cooked Rice
FSMP08	Md Jahurul Haque Akanda, Disa, P.A.A., Norazlina Mohammad Ridhwan#, Patricia, M., Ramlah, M.R.G., Hasmadi Mamat, Mansoor Abdul Hamid, Fan Hui Yin, Jumardi Roslan, Norliza, M.J., Lee, J.S.	Effects of Drying Pretreatment on the Changes In Seeds Microstructure and Fatty Acids of Mango Seed Fat
FSMP09	Dg Nur Shafanadirah Ag Sulaiman, Muhd Kamil Zakaria, Ramlah George, Patricia Matanjun#	Sensory Evaluation and Nutrient Composition of Noodles Enriched with Wood Ear Mushroom (<i>Auricularia polytricha</i>) Powder
FSMP10	Siti Faridah Mohd Amin#, Kharidah Muhammad, Roselina Karim, Yus Aniza Yusof, Hasmadi Mamat, Mohd Dona Sintang	A review on the Stability of Chlorophylls and Metallo-Chlorophyll Complexes in Fruits and Vegetables
FSMP11	Hana Binti Mohd Zaini#, Mohd. Dona Bin Sintang, Suryani Binti Saalah, Noorakmar Ab. Wahab, Jumardi Bin Roslan, Wolyna Pindi	Effect of Banana Peel Flour Incorporation (<i>Musa acuminata</i>) on Physicochemical and Sensory Profile of Chicken Sausage
FSMP12	Chee Ping Fadzal Wong#	A Review of Honey Supplementation on Bone Metabolism Markers and Sports Performance
FSMP13	Norliza Julmohammad#, Don Otter, Yacine Hemar, Umi Hartina Mohd Razali, Sarizan Sabari	Physicochemical Properties and Heat Stability of Whey Protein Isolate-Lactose Conjugates Formed by Dry-Heating
IPB01	Rovellyn L.O., Fan, H.Y. , Zarina, A., Mansa, R., Wong, C.M.V.L.#	Isolation Yeasts from Grapes for Rice Wine Starter Preparation
IPB04	Erma Rizah Abdul Sani#, Wilson Thau Lym Yong, Grace Joy Wei Lie Chin, Mailin Misson	Growth and Lipid Production of <i>Isochrysis galbana</i> in an Upscaled Cultivation System
FKI07	Mohd Khairulanwar Rizalman, Ervin Gubin Moungh#, Jamal Ahmad Dargham, Sigeru Omatu	A Survey on Drying Technology for Agricultural Area: State-of-The-Art, Opportunities, Trends and Challenges.
FKJ36	Zykamilia Kamin#, Chiam Chel Ken, SM Anisuzaman, Nurhamizah Abdul Ghani, Mohammad Abdullah, Ramzah Dambul, Mohd Hardyianto Vai Bahrun, Awang Bono	Tomato and Tomato Processing : A Short Review
End of Session 1C		

Session 1D: Energy and Material

Paper ID	Author/s (#Presenter)	Title
FKJ09	Ferlorna Freddie John Luji, Kenneth TzeKin Teo, SooFun Tan, HouPin Yoong#	A Review: Heating and Cooling Mechanisms for SMA Actuator
FKJ11	Beng Chew Lim, Adeline Shu Ting Tan, Arham Abdullah, Wan Ahmad Amir Zal, Jidon Janaun#	Solar Drying Characteristics of Palm Fruitlet Under Natural Convection
FKJ12	Ayuni Nasrin Binti Mohd Sukiri, Adeline Shu Ting Tan, Arham Abdullah, Wan Ahmad Amir Zal, Jidon Janaun#	Drying Characteristics and Nutritive Analysis of Coffee Beans Under Different Drying Methods
FKJ15	Valerian Kong, Jidon Janaun#	Diameter of Vertical Aerator from LAMB Dryer on Air
FKJ20	Nancy Julius Siambun#, Ooi Shen Ching, Melvin Gan Jet Hong, Chua Bih Lii	Solar Concentrator for Electro-Conversion of CO ₂ to Solid Carbon
FKJ22	Siti Nor Hafiza Binti Mohamad, Wai Heng Choong#	Fabrication and Preliminary Assessment of Aramid Reinforced Polymer Composite Material Development
FKJ24	Nahiyah Al-Azad, Mohd Kamal Mohd Shah#, Sanjay Mohan	The Study of Specific Energy Absorption of Natural Fiber Honeycomb Sandwich Structure Composite for Construction Industry Application
FKJ26	Hutharsan Mahendran, Mohd Suffian Bin Misaran @ Misran#, Md. Mizanur Rahman, Mohd Adzrie Radzali	Solar PV Surface Cooling Using Small Companion Solar Cell-Blowers
FKJ27	Zulkurnain Bin Hassan, Mohd Suffian Bin Misaran@Misran#, Nancy Julius Siambun, Ag Sufiyan Abd Hamid, Mohd Amran Madlan	Feasibility of Using Solar PV Waste Heat to Regenerate Liquid Desiccant in Solar Liquid Desiccant Air Conditioning System
FKJ35	Othman Ahmad#	An Ideal Solar Powered Car: The Transparent Car
PPST05	Huzaikha Awang#, Lling Lling Tan	Photocatalytic and Optical Properties of Reduced Graphene Oxide-Titanium Composite synthesized by Facile Wet Chemical Route
PPST06	Mohd Azrul Abdul Rajak, Nur Mizan Izzati Masran, Sazmal Effendi Arshad#, Eddy Mohd Farid Mohd Yusslee	Morphology of Lightweight Metakaolin-based Geopolymer Polystyrene Composite Paste at Early Ages
End of Session 1D		

Session 1E: Information and Communication Technology

Paper ID	Author/s (#Presenter)	Title
FKI03	Christie Pei-Yee Chin#, Suaini Sura, Soo Fun Tan, Lai Po Hung, Sharon Sam Mee Kwan	Is This True or Fake News? A Conceptual Fake News Identification Model.
FKI10	Afdal Marmoh, Shaliza Hayati A. Wahab#, Nordin Saad, Azali Saudi	UMS Pedestrian Detection from UAV Aerial Images Using Deep Learning: Lessons Learned.
FKI12	Ainnecia Yoag#, Nooralisa Mohd Tuah, Fatimah Ahmedy, Carolyn Salimun	A preliminary study in designing a mobile app for supporting emotional wellbeing of injured athletes during rehabilitation: UX Approach.
FKI13	Asni Tahir#, Elvin Malih, Salmah Fattah, Siti Hasnah Tanalol, Samrie @ Mohd Shamrie Sainin	A Web-based Vehicle Position Tracking System.
FKI15	Chung Seng Keau, Chin Kim On#, Mohd Hanafi Ahmad Hijazi	Smart-Hadir - Mobile based Attendance Management System.
FKI16	Nurul Farahin Hikmatullah binti Darwisal, Christie Pei-Yee Chin, Ng Giap Weng#, Angeline Lee Ling Sing	Implementation of Cloud Database in Mobile Augmented Reality.
FKI19	Esmadi Abu Abu Seman#, Hanudin Amin, Nor Aziati Abdul Hamid, Azley Abdul Razak	Digital Divide - The Rural Internet Adoption in Malaysia.
FKI21	Ezly Elkana Jaulih, Farashazillah Yahya#	Multiple Domain Biodiversity Data Analysis: A Process to Support Big Data Integration.
FKI22	Hadzariah Ismail#, Mithraa Sangaran, Lau Mei Yean	Exploration on Knowledge Factory Framework process for Requirements Analysis Environment.
FKI28	Tan Chia Wei, Mohd Hanafi Ahmad Hijazi#, Suraya Alias, Ag Asri Ag Ibrahim, Mohd Fairuz Iskandar Othman	Intelligent Course Recommender Chatbot using Natural Language Processing.
FKI31	Mohd Aidil Safwan, Siti Hasnah Tanalol#, Giap Weng Ng	A Brief Comparative of Indoor Positioning System.
FKI34	Syed Nasirin#	The Circumstances Affecting Local Government Public Information Systems Development.
End of Session 1E		

Session 1F: Computer Modelling and Assessment

Paper ID	Author/s (#Presenter)	Title
FKI05	Jackel Chew Vui Lung# , Jumat Sulaiman	A new splitting for Gauss-Seidel iteration in solving one-dimensional Porous Medium Equations.
FKJ03	Habib Musa Mohamad#, Syarifah Nur Maisarah Zamri, Ibrahim Yasir Arif, Muhammad Nursyahrain Mustafa	Determination of In-Situ Density and Physical Properties With Microstructure of Klias Peat Soil
FKJ04	Chung Han Lim#	Assessing Ballistic Impact of Firearm Projectiles on Compressed Earth Bricks
FKJ07	Lillian Gungat# , Mohd. Ishaq Selamat, Muhammad Saufi Sulaiman, Nurmin Bolong	Effects of Sandstone River Aggregate on Crumb Rubber Warm Mix Asphalt
FKJ10	Mohd Suffian Misaran Misran, Heng Jin Tham, Christopher Chi Ming Chu#, Djamila Harimi	Assessment of Airwell Performance in Single-Storey Terraced Houses
FKJ13	Carla Goncalves De Oliveira Sarmento, Awang Bono, Duduku Krishnaiah, S M Anisuzzaman, Jidon Janaun#	Adsorption of 2-Acetyl Pyrroline Using Treated Rice Husk
FKJ21	Wai Heng Choong# , Muhamad Nizam Bin Nasip	Ultrasonic Atomiser System Performance Characterisation Study for Water Purification System Development
FKJ23	Yan Yan Farm#, Dg. Dinie Amani binti Ag. Mat Daud, Mohd Azlan bin Ismail, Aroland Kiring	Design and Development of a Smart Aquaponic System with a Self-Cleaning Drainage Pipe and Real Time pH Monitoring System
FKJ25	M. Kamel W. Ibrahim#, Mohd Suffian Misaran, Rachel Mansa, Hazuwafa Hassan	The Evaluation of Molybdenum Disulphide (MoS_2) as an Additive in Vegetable Oils
FKJ32	Hafeza Abu Bakar#, Hafiz Majid, Siti Nurfarina Ismail	Optimization of Antioxidant Extraction on Banana Peels Using Response Surface Methodology
FKJ34	Mohd Asyraf Asidin, Emma Suali#, Farhana Abd. Lahin	Comparison on Experimental and Simulation Result on Drag Reducing Effect of Low Concentration Chitosan in Turbulent Flow
FPT01	Nurliyana Aqilah Asri, Fazilah Musa#	Tourists' Attitudinal Factor Towards Mangrove Conservation: A Case Study of Kilim Karst Geoforest Park, Langkawi, Malaysia
End of Session 1F		

Session 1G: Signal and Image Processing

Paper ID	Author/s (#Presenter)	Title
FKI06	Chai Chuan Wooi, Ervin Gubin Moung#	A Review of Image Sentiment Analysis through Facial Expression Recognition.
FKI17	Nurfazlin Muhamad Feizal Franslin, Giap Weng Ng#	Vision-Based Dynamic Hand Gesture Recognition Techniques and Application - A Review.
FKI25	Jonathan Likoh#, Nona M Nistah, Teong Khan Vun, Hadzariah Ismail	Mini Survey in Multi Objective Optimization on Nature Inspired Method.
FKI27	Tan Choon Beng, Mohd Hanafi Ahmad Hijazi#, Frazier Kok, Mohd Saberi Mohamad	Artificial Speech Detection using Image-based Features and Random Forest Classifier.
FKI30	Nordin Saad#, A'qilah Ahmad Dahalan, Azali Saudi	Poisson Image Composition using Red-Black Ordering.
FKI39	Chun Yung Wonga, Giap Weng Ngb, Ag Asri Bin Ag Ibrahim#	Review: Human Motion Recognition Based on Kinect Sensor and Leap Motion Controller.
FKJ08	MooiKhee Teoh, Kenneth TzeKin Teo, SooFun Tan, HouPin Yoong#	A Review: Vision-based Object Grasping Automation With QR-Code
FKJ31	Renee Ka Yin Chin#, Yew Lek Chong	An Investigation on the Effect of Skip-m Measurement Strategies on EIT Imaging Properties
FKJ33	Chan Bun Seng, Ismail Saad#, Nurmin Bolong, Kang Eng Siew	Design and Analysis of Electromyography (EMG) Signal System for Clinical Rehabilitation
FSSA01	Suzelawati Zenian#, Norhafiza Hamzah, Nur Batrisyia Ahmad Azmi	Intuitionistic Fuzzy Segmentation of Brain MRI
FSSA02	Fouziah Md Yassin#, Muhammad Shadli Latip, Saturi Baco, Afishah Alias, Ag Asri Ag Ibrahim	Facial Expression Effect on Signal Quality and The Attention Level of Mindwave
PPST02	Suriana Lasaraiya#, Suzelawati Zenian	Approximated Solutions for Fuzzy Polynomials

End of Session 1G

Session 2A: Indigenous and Local Knowledge 2A

Paper ID	Author/s (#Presenter)	Title
FSMP01	D.K Rafidzah Ak Mohiddin#, M. Shelin, Leoneeta Rozwen Hassan	Food Aid Essential Preparedness for Pre and Post-Earthquake Disaster: Case Study Mount Kinabalu Tragedy
FSMP04	Beatricia Amelia Boniface#, Jumardi Roslan, Hay Chye Ling, Lee Jau Shya, Mohd Dona Sintang, Md. Jahurul Haque Akanda, Suryani Saallah, Mohd Zuhair Mohd Nor	Effect of Heat Treatment on Physicochemical Properties of Bambang (<i>Mangifera Pajang Kosterm</i>) Fruit Juice
FSMP05	Jau-Shya Lee#, Ramlah George, NurDiyana Yusoff, Jo Ann Fong	Enhancing enzymatic resistance of green Saba banana flour by pullulanase debranching and autoclave-cooling treatment
FSMP07	Mariam Abdul Latif#, Suhaimi Ab Rahman	Knowledge and Attitude on Halal Food and Islamic Eating Practices Among Students of Universiti Malaysia Sabahs
FPEP04	Chin Yee Ting, Lim Fui Yee Beatrice#, Dayangku Aslinah Abd Rahim	Determinants of Underemployment in Sabah
FPEP11	Sharija Che Shaari#, Ida Shafinaz, Marja Azlima Omar, Rini Suryati Sulong, Jacqueline Pugh-kitingan, Gaim @ James Lunkapis, Stephen Laison Sondoh Jr, Raman Nordin	Revisiting the Definition of Native Of Sabah: A Doctrinal study
FPEP13	Debbra Toria Nipo#, Jennifer Chan Kim Lian, Fiffy Hanisdah Saikim	Exploring the potential of herbal tourism in Sabah: A case of Dai-C-Recreation Centre, Kiulu
IPMB02	Maria Magdalene De John#, Rossita Shapawi	Comparison of Proximate and Amino Acid Compositions of Sabah Pelian, <i>Tor duoronensis</i> from the Wild and Tagal System
FSSK01	Badariah Saibeh#, Ong Puay Liu	Orang Tiada Kewarganegaraan Dan 2 Peluang Pendidikan: Kisah 'Nija'.
FSSK02	Nur Firzana Rosman#, Kee Y. Sabariah Binti Kee Mohd Yussof, Jalihah MD Shah, Jurry Foo @ Jurry Bt. F. Michael, Mahadirin Bin Hj Ahmad, Ramlah Daud	Kemiskinan Digital Dalam Kalangan Peniaga Luar Bandar : Suatu Pengenalan
FSSK03	Nor Shahzanani Sudirman#, Kee. Y. Sabariah Kee Mohd Yussof, Mahadirin Ahmad, Jalihah Md Shah, Jurry Foo, Ramlah Daud, Md Hafizi, Liew Thor Seng	Penggunaan E-Pembelajaran dan Pengaruhnya Terhadap Perkongsian Maklumat Dalam Kalangan Kakitangan Akademik IPT/IPTS di Sabah
FSSK07	Saini Ag. Damit#, Bambang Muhamad Rafadi Yusoff, Noorafini Kassim, Nor Ain Manap	Jenis-Jenis Seni Kaligrafi Arab Sebagai Hiasan di Masjid-Masjid Daerah di Sabah
End of Session 2A		

Session 2B: Indigenous and Local Knowledge 2B

Paper ID	Author/s (#Presenter)	Title
FSSK10	Intan Soliha Ibrahim#, Assis Kamu, Jurry Foo @ Jurry Bt F. Michael	Listeners Perspective in Sabah Towards Concept of Radio Technology.
FKI08	Mohd Shamrie Sainin# , Mohd Hanafie Haris	Kadazandusun Speech Recognition: A Case Study.
FKI23	Iza Azura Ahmad Bahar	Government Web Applications Development Process: Lessons from a State-Led Development Initiative.
FKI40	Nona M. Nistah#, Jonathan Likoh, Suaini Sura, Syed Nasirin, Hadzariah Ismail	IoT Technology Adoption Among Aqua-farming Micropreneurs Within the Coastal Community in Sabah.
BorIIS01	Nor Arifah Mohd Nor#, Jeannet Stephen, Patricia A. Lajumin	Word Retrieval in Kadazandusun: Lexical Change among Native Speakers
BorIIS05	Rosazman Hussin, Johan Johnes#, Jabil Mapjabil, Badariah Ab Rahman, Jeannet Stephen	Native Court In Kudat And Matunggung, Sabah: Ecosystem Structural And Governance Challenges.
BorIIS06	Nor-Ina Kanyo#, Ahmad Tarmizi Abdul Rahman, Rozasman Hussin, Aliakbar Gulasan, Norhuda Salleh, Teuku Afrizal Teuku Anuar, Rosdiana Betare	Persepsi Komuniti Pulau Gaya Dalam Menggunakan Kemudahan Dan Keselamatan Jeti Awam Pulau Gaya.
BorIIS08	Jabil Mapjabil#, Kasim Mansur, Gaim James Lunkapis, Harifah Mohd Noor, Badariah Ab Rahman, Nabila Farysha Dering	Kesanggupan Untuk Membayar (WTP) Di Destinasi Pelancongan Terpilih Di Kundasang-Ranau, Sabah - Nilai Kadar Bayaran, Kesesuaian Dan Cadangan.
BorIIS09	Gaim James Lunkapis#, Erwina Nuar	Innovation Of Land Ownership Procedures Through Life Cosmology Of Sabah Indigenous Communities.
BorIIS10	Jeannet Stephen#, Rosazman Hussin, Andreas Totu, Henry Bating, Rosy Talin, Reany Koton	Indigenous Language Learning: Voices of Orang Asal Parents on the Teaching of Bahasa Kadazandusun in schools.
FKJ02	Noor Sheena Herayani Harith# , Nur Izzati Husna, Mohd Irwan Adiyanto, Ahmad Nurfaidhi Rizalman, Sk Muiz Bin Sk Abd Razak	Vulnerability Index of KK Buildings Due to Past Earthquakes
FKJ05	Jason Lowell Jitolis, Awang Nasrizal Awang Ali, Nurmin Bolong#	Water Quality Modelling Using QUAL2K at Likas River, Sabah
End of Session 2B		

Session 2C: Indigenous and Local Knowledge 2C

Paper ID	Author/s (#Presenter)	Title
PPIB03	Saifulazry Mokhtar#, Kasoma Thia, Mohd. Taqwudin Mohd. Yazid, Habibah Artini Ramlie, Irma Wani Othman	Adat dan Ritual Kematian Masyarakat Suluk di Sandakan : Satu Tinjauan Awal
PPIB07	Nor Ain Manap#, Saini Ag Damit, Asiah Abas dan Noorafini Kassim	Literasi Bahasa Arab: Satu Pengenalan Kajian Persepsi dan Penguasaan Bahasa Dalam Kalangan Masyarakat Awam di Sabah
PPIB08	Habibah @ Artini Binti Ramlie#, Norshahrul Marzuki Bin Mohd Nor, Mohamad Basri Bin Jamal, Aishah Binti Tamby Omar	Citra Etnik Suluk Di Sabah : Satu Penceritaan Sosio-Budaya
PPIB09	Habibah @ Artini Ramlie#, Norshahrul Marzuki Mohd Nor, Mohd. Sohaimi Esa, Jamsari Hashim, Saifulazry Mokhtar, Irma Wani Othman	Hubungan Etnik Rentas Agama Dan Budaya Dalam Kalangan Pelajar: Satu Tinjauan Literatur
PPIB10	Suraya Sintang#, Nazmi Mohd. Khalli, Khadijah Mohd. Khambali@Hambali	Solidariti agama dalam hubungan Inter-Komuniti di Sabah
FPT02	Elyria Crystta Johunis#, Hamimah Talib, Kamlisa Uni Kamlun, Rosmalina Abdul Rashid, Jennifer Chan Kim Lian	Local Community Involvement in Geotourism (Hiking) in Kampung Kinirasan, Ranau, Sabah
FPT03	Hamimah Talib#, Nurnadhira Najwa Zaidon, Rosmalina Abdul Rashid, Jennifer Chan Kim Lian.	Local Community's Acceptance of Mangrove Forest as a Sustainable Tourism Product: A Preliminary Findings
PPST01	Sitty Nur Syafa Bakri, Azlinah Matawali#, Nur Ramziahrazanah Jumat, Fadzilah Ag Kanak and Iziana Hani Ismail	Encouraging STEM interest among high school students in rural area of Sabah: A BOTANISTNJA module integrated with Problem-based Learning case
PPST03	Siti Nazirah Butai, Huzaikha Awang, Iziana Hani Ismail, Elnethra Folly Eldy#	Effectiveness of PBL-STEM Module in Physics on Students' Interest: A Preliminary Findings of Implementation Amongst Students in Rural Area of Sabah, Malaysia
PPST07	Ayu Afiqah Nasrullah, Nur Hazwani Dahon#, Mohd Azrul Abdul Rajak, Megawati Mohd Yunus, Nur Anneliza Abd Latip, Sazmal Effendi Arshad, Eddy Mohd Farid Mohd Yusslee	A Preliminary Study on STEM Encouragement in Chemistry Subject: The Learning Experience of SMK Usukan Students in STEM AUMS Warrior Program
IPB03	Raimalynah Abd Razak#, Meiny Suzery, Rafida Razali, Zarina Amin, Ruzaidi Azli bin Mohd Mokhtar, Lee Ping Chin, Cahyo Budiman	Inhibition activity of some medicinal plant extracts towards caseinolytic protease proteolytic subunit of Plasmodium knowlesi
IPMB01	Muhammad Dawood Shah, Balu Alagar Venmathi Maran#, Ching Fui Fui, Sitti Raehanah Muhamad Shaleh	Antiparasitic Potential of a Medicinal Plant against Marine Parasitic Leech in Aquaculture
FSSA03	Su Na Chin# , Fui Fui Lem, Jie Yi Toh, Fong Tyng Chee, Chee Wei Yew, Ammar Rafidah binti Saptu, Nionella bt. Stephen Sampil, Mervin George P. Mathew, Julaidah Bt. Sharip	Incidence of Hand, Foot and Mouth Disease (HFMD) in Kota Kinabalu District of Sabah
End of Session 2C		

Session 2D: Human and Resources Management

Paper ID	Author/s (#Presenter)	Title
FPP01	Guan Teik Ee#, Agnis Sombuling, Assis Bin Kamu, Ho Chong Mun	Theories of Happiness: A Simple Concept
FPEP02	Salmah Topimin#, Noor Fzlinda Fabeil, Mat Sileh Ayub, Merlyn Rita Buncha	Entrepreneurship and Motherhood: A Narrative Analysis of the Entrepreneurial Journey of a Woman Entrepreneur
FPEP03	Sharifa Che Shaari#, Sharifah Rahama Amirul	Realigning Occupational safety and health (OSH) Legislation with Flexible Working Arrangement (FWAs)
FPEP08	Sharifah Rahama Amirul#, Jakaria Dasan, Khairu Hanim Pazim, Rasid Mail	Human resource quality as a labour productivity measure in service industry
FKI24	James Mountstephens#, Nur Syahirah Binti Shoed	Can Vader Handle Malaysian Rojak? Experiments with Food Tweets.
FKI33	Syed Nasirin#	The Circumstances Affecting Successful Requirements Analysis in Government Agencies in Less-Developed Province.
FKI35	Amboala T#, S. Nasirin, EAA Seman, IAA Bahar	Commercialization of ITIS Research Outcomes and Technological.
FKI37	Tan Soo-Fun#, Zachary Benjamin Goh Yu Liang, Fatimah Ahmedy	Shielding Mobile Healthcare with Grid-Based Honey Encryption.
FKI38	Zaidatul Haslinda Abdullah Sani#, Dinna @ Ninna Mohd Nizam, Aslina Baharum	Participatory design apps from the older adults to the older adults.
FKJ01	Yong Pooi Chee, Salinah Dullah#, Sivakumar Kumaresan, Habibah Ghazali, Aslina Baharum, Siti Jahara Matlan	Case Study: Preliminary Design Standard For Bus Stop In Universiti Malaysia Sabah
FKJ28	Mohd Adzrie#, Zachary Henry	Productivity Improvement by Using Lean Manufacturing Tools: A case study on Jishu Hozen implementation
FKJ30	Amirah Ismail, Mark Irwin Goh, Jbathra Nancy Jaibi, Hoe Tung Yew#	Wearable Remote Patient Monitoring System
End of Session 2D		

Session 2E: Education, Technology and Awareness

Paper ID	Author/s (#Presenter)	Title
FSMP06	Leoneeta Rozwen Hassan#, DK Rafidzah AK Mohiddin, Nurul Afiqah Abd Rahman	Consumers Readiness to do Away with Single-use Plastic Straws
FSSK06	Jinky Jane C Simeon#, Jacqueline Pugh-Kitingan	Integrating Literature and Music for Classroom Teaching with an Interactive Story Book
FKI01	Elinne Yong, Aslina Baharum#, Rozita Ismail, Farhana Diana Deris, Ismassabah Ismail, Noorsidi Aizuddin Mat Noor	Gamification For Tourist Guide Application.
FKI04	Suhaila Jaffar, Dinna @ Nina Mohd. Nizam#, Aslina Baharum, Nooralisa Binti Mohd Tuah, Farhana Diana Deris, Noorsidi Aizuddin Mat Noor	Student engagement in Learning: A Preliminary Study on Digital Educational Application.
FKI09	Siti Hasnah Tanalol, Aslina Baharum#, Mohamad Maruf Ahmed, Asni Tahir, Azali Saudi, Shaliza Hayati A. Wahab, Nordin Saad, Jurry Foo	Development of AR Mobile Apps for STEM Education.
FKI11	Ahmad Rizal bin Ahmad Rodzuan#, Nazlena Mohamad Ali, Azlina Ahmad	Gamification Design Framework to Increase Emotional Engagement Amongst Primary School Children.
FKI14	Nurfaizurin binti Ebrahim, Carolyn Salimun#, Ng Giap Weng	Intuitive Virtual Object Manipulation with Real-time Face Recognition and Face Extraction Features for Interactive Museum Application.
FKI26	Laura Jack#, Zamhar I. Ismail	Teaching Programming Concept with Board Games.
FKI29	Nooralisa Mohd Tuah#, Ainneci Yoag, Cheang Wan Chin	A Dashboard-based System to Monitor the Progression of Final Year Student Project.
FKI32	Suraya Alias#, Mazliah Majalin	An Educational Text Summarizer Tool using Keyword-Cluster based approach.
FKI36	Amboala T#, S. Nasirin, EAA Seman, IAA Bahar, H Ismail	The Commercialization of Computing Artefacts and Technological Entrepreneurship in University Incubation Programs.
PPST04	Megawati Mohd Yunus, Ayu Afiqah Nasrullah, Nurhazwani Dahon, Noor Azimah Binti Pelah#	A Preliminary Study on the Graphic Development for Lab Instrumentation Model
End of Session 2E		

Session 2F: Environmental and Management

Paper ID	Author/s (#Presenter)	Title
IPB02	Ignatia Justine#, Grace Joy Wei Lie Chin, Wilson Thau Lym Yong, Mailin Mission	Growth Behaviour of <i>Rhodotorula toruloides</i> on Palm Oil Mill Effluent
FKI20	Bagner Decruzz Julis, Farashazillah Yahya#, Baba Musta, Bashirah Ahmad Fazli	Modeling the Water Quality Trends for Predicting Coastal Recreational Suitability using Deep Learning Approach.
FKJ06	Nurmin Bolong#, Ismail Saad, M. Amran Madlan	Manufacturing of Beach Cleaning Machine at Universiti Malaysia Sabah (UMS) Prototype Design and Analysis
FKJ14	Sara Vinothini Pannirselvam, Alex Walzico Robert, Sariah Abang, Abu Zahrim Yaser, Jidon Janaun#	Oil Sorption Behavior of Natural Kapok Fiber as An Alternative to Commercial Synthetic Fiber
FKJ16	Decklary Jawing, Syahriadi Syahril, Mohd Hardyianto Vai Bahrn, Rachel Fran Mansa#	Palm Kernel Shell Activated Carbon for Lead and Methylene Blue Removal
FKJ17	Noorafizah Murshid, Junidah Lamaming, Sariah Saalah, Mariani Rajin, Mohd Al Mussa Ugak, Abu Zahrim Yaser#	Vegetable Waste Composting: A Short Review
FKJ18	Chen Chen Chung, Abdul Karim Mirasa, Zahrim Yaser, Jidon Janaun#	Review and Evaluation of Non-thermal Chemical Flooding for Enhanced Oil Recovery
FKJ19	Noor Maizura Ismail, Nurliyana Nasuha Safie, Manjulla Subramaniam, Nur Syafidah Junaidi, Abu Zahrim Yaser#	Comparison Between Fresh and Degraded Biochar for Ammonium Ion Removal From Wastewater
FKJ29	Rosminah Mustakim, Mazlina Mamat#	The Nonlinear Autoregressive Exogenous Neural Network Performance in Predicting Malaysia Air Pollutant Index
FKJ37	Mohd Hardyianto Vai Bahrn, Ernee De Vanesa Halun, Zykamilia Kamin#, Awang Bono	Removal of Trace Oil From Palm Oil Mill Effluent Using Polypropylene Nanofibers as Adsorbent
FPL01	Aubrey Mei Li Lee, Mohd Rashid Mohd Rakib#, Clament Fui Seung Chin, Jaya Seelan Sathiya Seelan, Huei Hong Lee	Effect of Physicochemical Properties of Oil-palm-waste-based Substrates on Mycelia Growth Rate of <i>Pleurotus ostreatus</i>
FPL02	Noor Khairani Mohamad Basri, Januarius Gobilik, Lum Mok Sam, Chong Khim Phin, Kimberly Ador, Mohamadu Boyie Jalloh, Clament Chin Fui Seung#	Isolation and Characterization of Multifunction Beneficial Bacteria from Dairy Farm Effluent Compost
End of Session 2F		