

DAY 1:	28th AUGUST 2021					
8:30 - 9:00	Virtual arrival of all participants and invited guests					
9:00 - 9:05	Welcoming remarks by Dr. Zamhar Iswandono Bin Awang Ismail					
9:00 - 9:15	Opening Remarks by Associate Professor Dr. Rayner Alfred					
9:15 - 10:00	KEYNOTE 1: Associate Professor Dr. Yuto Lim, School of Information Science, Security and Networks Area, Japan Advanced Institute of Science and Technology, Japan					
Room	meet.google.com/srg-vvri-qst					
Sessions	ARTIFICIAL INTELLIGENCE (MD151)		MATHEMATICAL COMPUTATIONAL (MD152)		KNOWLEDGE DISCOVERY AND MACHINE LEARNING (MD153)	
Chairperson	ASSOC. PROF. TS. DR. WAN ABDUL RAHIM WAN MOHD ISA (UITM)		ASSOCIATE PROFESSOR DR. JANE LABADIN (UNIVERSITI MALAYSIA SARAWAK)		DR. TAN CHOO KIM (MULTIMEDIA UNIVERSITY)	
Link	meet.google.com/srg-vvri-qst		meet.google.com/cah-ntup-jkg		meet.google.com/xcu-afdf-rqn	
Time	Title of Paper	Authors (Presenter in Bold)	Title of Paper	Authors (Presenter in Bold)	Title of Paper	Authors (Presenter in Bold)
10:10 - 10:30	Depression Level Detection from Facial Emotion Recognition using Image Processing	Assoc. Prof. Ts. Dr. Lili Nurliyana Abdullah (UPM) , Nurul Amiraa Mohamed Rafic, Mas Rina Mustaffa and Nurul Amelina Nasharuddin	First-Order Differentiation of Numerical Simulations with Embedded Integrals	Dr. Niloofar Safiran (RWTH Aachen University, Germany)	Classification of Daily Lifestyle from Wearable Device	Nurul Hazwani Abdul Halim, Dr. Azliza Mohd Ali (UITM) , Rozianawaty Osman and Sharifallah Nordin
10:35 - 10:55	The Effectiveness of Low Level Heuristics for Capacitated Vehicle Routing Problem	Dr. Zailiah Abd Aziz (UITM) , Ely Johana Johan and Noratikah Shamsudin	Solution Of The Established Redlich-Kister Finite Difference For Two-Point Boundary Value Problems Using 4EGMKSOR Method	Mohd Norfadli Suardi (UMS) and Jumata Sulaiman	Prediction of Gestational Diabetes Mellitus using Machine Learning Technique	Aqliah Saibah Abdul Rahman (UITM) and Sharifallah Nordin
11:00 - 11:20	Driving Simulator for Drivers Education with Artificial Intelligence Traffic and Virtual Reality: A Review	Yun Quan Cheng (MMU) , Sarina Mansor, Ji-Jian Chin and Hezerul Abdul Karim	Newton Explicit Decoupled Group solution for two-dimensional nonlinear porous medium equation problems	Dr. Jackel Vui Lung Chew (UMS) , Jumata Sulaiman, Andang Sunarto and Fatimah Anas Muhiddin	Source Code Plagiarism Detection Using Siamese BLSTM Network and Embedding Models	Mohammed Manahi (IUM) , Suriani Sulaiman and Normi Sham Awang Abu Bakar
11:25 - 11:45	Dominant Gray Level based Particle Swarm Optimization Clustering for Segmenting Brain Tumor Sub-regions from Multimodal Magnetic Resonance Images	Ali Fawzi Al-Khafaji (USM) , Anusha Achuthan and Bahari Belaton	SOR Iterative Method for the Linear Rational Finite Difference Solution of Second-Order Fredholm Integro-Differential Equations	Ming-Ming Xu (UMS) , Jumata Sulaiman and Labiyana Hanif Ali	An Approach to Recognize Handwritten Digits using Machine Learning Classifiers	Md Ismail Hossen, Md Nazmul Hossain and Dr. Md Jakir Hossen (MMU)
11:50 - 12:10	Microphone-Independent Speech Features For Automatic Depression Detection Using Recurrent Neural Network	Mugahed Al-Ezzi Ahmed Ezzi (IIUM) , Nik Nur Wahidah Nik Hashim and Nadzirah Ahmad Basri	Mathematical Modelling of As(V) Adsorption By Humic Acid-Coated Magnetite Nanoparticles	Ameer Al Mubarak Hamzah (MMU) and Nisha Kumari Devaraj	Home Activities Sequence Pattern Analysis	Yi-Fei Tan, Siew-Khew Koh, Dr. Chew-Peng Gan (MMU) and Slow-Hooi Tan
12:15 - 12:35	A Prepaid Energy Billing System With Credit Shortage Forecasting	Muhammad Faiz Fahmi Abdul Ghani, Muhammad Aidil Fahmi Mohd Yusoff, Hwee Ling Wong (MMU) , Sook Chin Yip and Chia Kwang Tan	Half-Sweep Newton-SOR Iteration with Quadrature Scheme to Solve Nonlinear Fredholm Integral Equations	Labiyana Hanif Ali (UMS) , Jumata Sulaiman, Azali Saudi and Mingming Xu	Fresnel Lens Defect Classification using Deep Learning Technique	Loo Kean Li (UTM) , Saw Chong Keat and Mohd Haniff Ibrahim
12:40 - 13:00	Detecting Risk of ACL Injury using CNN-Expert System	Natasha Nazamil, Nurzeatul Hamimah Abdul (UITM) Hamid, Raihana Sharir, Azliza Mohd Ali and Rozianawaty Osman	On Type-1 Granulation and Approximation of Tolerance based Rough Neutrosophic Sets	Assoc. Prof. Dr. Ahmad Termimi Ab Ghani (UMT) and Lazim Abdullah	Spatial Panel Data Modelling of COVID-19 Spreading at District Level in Sarawak, Malaysia	Dr. Phang Piau (UNIMAS) , Jane Labadin and Shapi-Ee Abd Rahman
13:00 - 14:00	LUNCH BREAK					
Sessions	AUGMENTED AND VIRTUAL REALITY (ED151)		SYSTEM APPLICATIONS AND ARCHITECTURES (ED152)		KNOWLEDGE DISCOVERY AND MACHINE LEARNING (ED153)	
Chairperson	DR. MD JAKIR HOSEN (MULTIMEDIA UNIVERSITY)		DR. JACKEL CHEW VUI LUNG (UNIVERSITI MALAYSIA SABAH)		DR. CHIN JI JIAN (MULTIMEDIA UNIVERSITY)	
Link	meet.google.com/srg-vvri-qst		meet.google.com/cah-ntup-jkg		meet.google.com/xcu-afdf-rqn	
Time	Title of Paper	Authors (Presenter in Bold)	Title of Paper	Authors (Presenter in Bold)	Title of Paper	Authors (Presenter in Bold)
14:00 - 14:20	Analysis Methods of the Design of Costume Customization System in AR	Feng Liying (UMS) , Ng Giap Weng and Ma Liyao	Systematic Literature Review to Develop Conceptual Framework: IoT based Model for developing Batik Entrepreneur	Solichul Hadi Achmad Bakri (UTeM) , Massila Kamalrudin, Safiah Sidek, Noorrezam Yusop	Analysis of Training Function for NNARX in Solar Radiation Prediction Modeling	Mohd Rizman Sultan Mohd (UITM) , Juliana Johari and Fazlina Ahmet Ruslan
14:25 - 14:45	An Augmented Reality on the Introduction of Escherichia Coli Bacteria that Cause Diarrhea using the Marker Based Tracker Method	Muhammad Bambang Firdaus (Universitas Mulawarman, Samarinda, Indonesia) , Dina Fadhiellah, Edy Budiman, Andi Tejawati, Lathifah Lathifah, M. Khairul Anam and Fadli Suandi	IoT-based Autonomous Baby Monitoring System Using Mobile App Control	Dr. Gwo Chin Chung (MMU) , Khan Yun Teong, Soo Fun Tan and Ruven Al Sundarajoo	Interpretation of Machine Learning Model with Visual Analytics for Medical Records	Nur Hidayah Mohd Khalid (IIUM) , Amelia Ritahani Ismail and Normaziah Abdul Aziz
14:50 - 15:10	Implementation Of Cloud Database In Mobile Augmented Reality	Nurul Farahin Hikmatullah Darwisal (UMS) , Giap Weng Ng and Angeline Ling Sing Lee	Efficient Implementations of MQV-Based Protocols on Client-Server Architectures	Ernest Yongyi Yap (MMU) , Ji Jian Chin, Chia and Alwyn Goh	A New Method of EEG Classification for Motor Impairment Neural Disorders Using Deep Learning	Duc Duong M. (University of Information Technology VNU-HCM, Ho Chi Minh) and Binh Tran
15:15 - 15:35	Application of Speech Augmented Reality for Sabah Tourism Industry	Rianty Saimon (UMS), Giap Weng Ng and Siti Hasnah Tanalol	Design of an IoT Safety Distance Monitoring Device for COVID-19	Chan Chin Sen (MMU) , Pang Wai Leong, Chan Kah Yoong and Angie Ng See Tien	CNN architectures for road surface wetness classification from acoustic signals	Siavash Bahrani (UPM) , Shyamala Doraisamy, Azreen Azman, Nurul Amelina Nasharuddin and Shigang Yue
15:40 - 16:00	The Significant of Augmented Reality based magazine book for historical places of Bangladesh: Case Study.	S M Abdullah Shafi (UMS), Sadia Farzana, Mahmuda Muslim Florin, Nafis Mustafa, Md. Abdullah Al Jubair and Dr. Ng Giap Weng	RFID Based Identity Authentication System In COVID-19 Era	Muhammad Luqman Mohd Tajuddin (MMU) , Kah Yoong Chan and Wai Leong Pang	Human Detection Using Passive Forward Scattering Radar and Classification with PCA and ANN	Dr. Noor Hafizah Abdul Aziz (UITM) , Muhammad Naquidinn Ramli and Ahmad Jais Alias
16:05 - 16:25	Designing Augment Reality for Malay Cultural Artifact using Rapid Application development	Assoc. Prof. Ts. Dr. Wan Abdul Rahim Wan Mohd Isa (UITM)	Mobile Advanced Persistent Threat Detection using Device Behavior (SHOVEL) Framework	Thulfiqar Jabar (USM) , Manmeet Mahinderjit Singh and Amjed Ahmed Al-Kadhimi (USM)	Comparison of Electricity Usage Forecasting Model Evaluation Based on Historical Dataset Duration using Long-Short Term Memory Architecture	Nur Shakirah Md Salleh (UNITEN) , Azizah Suliman and Bo Nørregaard Jørgensen
16:30 - 16:50	iFind: Image-Based Indoor Navigation System	Muhammad Hafeez Mohamed Azman (UITM) and Sharifallah Nordin	Fingerprint for Mobile-Sensor APT Detection Framework (FORMAP) based on Tactics Techniques and Procedures (TTP) and MITRE	Amjed Ahmed Al-Kadhimi (USM) , Manmeet Mahinderjit Singh and Thulfiqar Jabar	Bioinformatic Analysis of SARS-CoV-2 S Protein	Pugalzhetha K. Elangovan (MMU) , Boon Zhan Sia and Chong Han Ng
17:00 - 17:45	KEYNOTE 2: Associate Professor Dr. Dimitar Kazakov, Head of Artificial Intelligence Research Group, Department of Computer Science, University of York, United Kingdom					
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DAY 2: 29th AUGUST 2021						
8:30 - 9:00 Virtual arrival of all participants and invited guests						
9:00 - 9:15 Welcoming remarks by Dr. Zamhar Iswandono Bin Awang Ismail						
9:15 - 10:00 KEYNOTE 3: Professor Emeritus Dato Dr. Tengku Mohd Bin Tengku Sembok, Faculty of Defence Science and Technology, National Defence University of Malaysia						
Link meet.google.com/uxq-dbap-ctw						
10:00 - 10:45 KEYNOTE 4: Professor Dae-Ki Kang, Director of Machine Learning/Deep Learning Research Lab, Department of Computer Engineering, Dongseo University, South Korea						
Session		SOFT COMPUTING AND DATA ANALYSIS (MD2S1)		SYSTEM APPLICATIONS AND ARCHITECTURES (MD2S2)		KNOWLEDGE DISCOVERY AND MACHINE LEARNING (MD2S3)
Link		meet.google.com/uxq-dbap-ctw		meet.google.com/hgr-tqoc-uex		meet.google.com/rmw-qxpw-ebn
Chairperson		ASSOC. PROF. TS. DR. LILI NURLIYANA ABDULLAH (UNIVERSITI PUTRA MALAYSIA)		DR. ZALILAH ABD AZIZ (UITM)		DR. NISHA KUMARI DEVARAJ (MULTIMEDIA UNIVERSITY)
Time	Title of Paper	Authors (Presenter in Bold)	Title of Paper	Authors (Presenter in Bold)	Title of Paper	Authors (Presenter in Bold)
11:00 - 11:20	Customer Segmentation Analysis on Retail Transaction Data	Oliver Jewinly (UITM) , Mohd Zaki Zakaria and Shuzlina Abdul Rahman	Evaluation Criteria and Assessments for Effective User Experiences, Web Accessibility, and Interaction for Visually Impaired Users	Assoc. Prof. Dr. Azrul Hazri Jantan (UPM) and Mariam Azwa Yazid	Study on the Correlation between Indoor Light Environment and Human Fatigue	LIU Chang (Dalian Polytechnic University, China) , ZHAO Cheng-cheng, WANG Weiyu, WANG Weizhen, LIU Ying, ZOU Nianyu, FANG Yuan*
11:25 - 11:45	Optimizing the Financial Efficiency of Logistics Companies with Data Envelopment Analysis Model	Pei Fun Lee (UTAR) , Weng Siew Lam and Weng Hoe Lam	A Brief Comparative of Indoor Positioning System	Mohd Aidil Safwan Bacho , Edmung Giap Weng Ng and Siti Hasnah Tanalol	Towards the Influence of Students' Learning Attention with Indoor Light Environment	ZHAO Cheng-cheng (Dalian Polytechnic University, China) , LIU Chang, WANG Weiyu, WANG Weizhen, CAO Fan, ZOU Nianyu, FANG Yuan
11:50- 12:20	Research Output to Industry Use: A Readiness Study for Topic Modelling with Sentiment Analysis	Jih Soong Tan (Sunway University) and Wai Chong Chia	Design and Development of Development of Modular and Open System (MOST) for Pandemic Precaution	Noorfadzli Abdul Razak (UITM) , Muhammad Rafie Sazali, Juliana Johari, Noor Azlina Mohd Salleh, Yupiter Harangan Prasada Manurung and Ng Kok Mun	CoinChain: Effective Coin Mixing Tool for Anonymous Cryptocurrency	Wai Kok Chan (MMU) , Ji-Jian Chin and Vik Tor Goh
12:25 - 12:45	Analysis on the Financial Performance of Companies with TOPSIS Model	Assistant Professor Dr. Weng Siew Lam (UTAR) , Weng Hoe Lam and Pei Fun Lee	Undergraduates' Perception on Online Learning During Pandemic	Clara Susaie, Dr. Tan Choo Kim (MMU) and Cheah Wooi Ping	Brain Waves and Biofeedback Therapy Analysis in Generalized Anxiety Disorder – A Case Study	Tahereh Najafi, Dr. Rosmina Jaafar (UKM) and Kiomars Najafi
12:50 - 13:10	Evaluation of the Financial Distress Level of Construction Companies in Malaysia using Z-score Model	Kah Fai Liew (UTAR) , Weng Siew Lam and Weng Hoe Lam	Elements of Optimizing Users Engagement in E-Commerce Website	Lizawati @ Rosclaritha Maidom (JMS) and Dr. Aslina Baharum	The Development of Artisanal Food Products E-Marketplace with Intelligent Depletion Feature	Dr. Check Yee Law (MMU) , Yong Wee Sek, Choo Chuan Tay, Kai Shin Liew and Tze Hui Liew
13:10 - 14:00 LUNCH BREAK						
Session		SOFT COMPUTING AND DATA ANALYSIS (ED2S1)		SMART TECHNOLOGIES (ED2S2)		
Chairperson		ASSOCIATE PROFESSOR DR. JOE HENRY OBIT (UNIVERSITI MALAYSIA SABAH)		ASSOC. PROF. DR. MASRAH AZRIFAH AZMI MURAD (UNIVERSITI PUTRA MALAYSIA)		
Link		meet.google.com/uxq-dbap-ctw		meet.google.com/hgr-tqoc-uex		
Time	Title of Paper	Authors (Presenter in Bold)	Title of Paper	Authors (Presenter in Bold)		
14:00 - 14:20	Computational Accuracy using Combined Time Sensitive Technologies	Kin Choy Yip (Intel Technology (M) Sdn Bhd)	An Analytics Dashboard for Personalised Learning: A Preliminary Study	Assoc. Prof. Dr. Masrah Azrifah Azmi Murad (UPM) and Ahmad Farhan Shah Jahan		
14:25 - 14:45	Performance Comparison of Equal Width and Equal Frequency Discretization Methods for Author's Handwriting Recognition	Intan Ermahani A. Jalil , Mohd Sanusi Azmi, Sabrina Ahmad and Azah Kamilah Muda	Social versus Physical Distancing: Analysis of Public Health Messages at the start of Covid-19 Outbreak in Malaysia using Natural Language Processing	Dr. Sarah Samson Juan (UNIMAS) , Suhaila Saeed and Fitri Suraya Mohamad		
14:50 - 15:10	Deep Convolutional Generative Adversarial Network Model for Diabetic Retinopathy	Nadzurah Zainal Abidin , Amelia Ritahani Ismail, Muhammad Laziem Shafie and Aishah Nabillah Muhammad Ridzuan	A Systematic Literature Review of Electricity Load Forecasting using Long Short-Term Memory	Nur Shakirah Md Salleh (UNITEN) , Azizah Suliman and Bo Nørregaard Jørgensen		
15:15 - 15:35	Human Motion Recognition Based on Kinect Sensor and Leap Motion Controller	Chun Yung Wong (UMS) , Giap Weng Ng and Awang Asri Haji Awang Ibrahim	Adaptive Profiling Model for Multiple Residents Activity Recognition Analysis using Spatial Temporal Information in Smart Home	Ts. Dr. Raihani Mohamed (UPM) , Muhammad Noorazlan Shah Zainudin and Thinagaran Perumal		
15:40 - 16:00	Vision-Based Dynamic Hand Gesture Recognition Techniques and Application: A Review	Nurfazlin Muhamad Feizal Franslin and Giap Weng Ng	Memorability of Legacy Password Types in Gaze-based Authentication	Yvonne Hwei-Syn Kam and Mohamad Haziq Bin Mohd Azmi		
16:05 - 16:25	Computer Aided System for Automatic Detection of Brain Tumor	Zaib Ali, Audrey Huong and Dr. Wan Mahani Hafizah Wan Mahmud (UTHM)	Classification of Odour in the Leftover Cooked Food in Determine Contamination using Machine Learning	Wan Nur Fadhilina Syamimi Wan Azman (UniMAP) , Ku Nurul Fazira Ku Azir and Amiza Amir		
16:30 - 17:00 CLOSING CEREMONY						