

**CONFERENCE PROGRAM****DIFCON 2024**

Intelligence for Sustainable Futures: A Journey

Towards Society 5.0

Virtual Conference: July 23-25, 2024

**Day - I Tuesday, July 23, 2024**

Time (UTC+8)	Dur'	Activity
<b>DIFCON Main Room</b>		Link: <a href="https://tinyurl.com/difcon24-main-room">https://tinyurl.com/difcon24-main-room</a>
9:00 - 9:30	0:30	<b>Arrival of participants and attendees (Microsoft Teams)</b>
9:15 - 9:30	0:15	Arrival of <b>Dr. Sharlene Thiagarajah</b> CEO, Telekom Research and Development Sdn. Bhd. (TM R&D)  Arrival of <b>YBhg. Prof. Dato' Dr. Mazliham Mohd Su'ud</b> President / CEO of Multimedia University  Arrival of <b>Mr Ian Jones</b> VP and Commercial Lead for APAC, Taylor & Francis
9:30 - 9:32	0:02	Opening remark by Emcee
9:32 - 9:35	0:03	Doa Recitation
9:35 - 9:45	0:10	<b>Welcoming Speech by Dr. Sharlene Thiagarajah</b> CEO, Telekom Research and Development Sdn. Bhd. (TM R&D)
9:45 - 10:00	0:15	<b>Speech by YBhg. Prof. Dato' Dr. Mazliham Mohd Su'ud</b> President / CEO of Multimedia University DIFCON2024 Organiser
10:00 - 10:15	0:15	<b>Speech by Mr Ian Jones</b> VP and Commercial Lead for APAC, Taylor & Francis Main DIFCON2024 Publication Partner
10:15 - 10:25	0:10	<b>Agreement Signing Ceremony between DIFCON and Taylor &amp; Francis</b>
10:25 - 10:30	0:05	<b>DIFCON2024 Launching and Montage</b>
10:30 - 10:35	0:05	<b>E-Photo Session</b>
10:35 - 11:00	0:25	Break
11:00 - 11:05	0:05	Keynote session opening remark by Emcee
11:05 - 11:40	0:35	<b>DIFCON2024 Keynote 1: Prof. Dr Sakiru Adebola Solarin</b> Insights from a Top 2% Researcher Faculty of Business, Multimedia University
11:40 - 12:20	0:40	<b>DIFCON2024 Keynote 2: Prof. Mohd Saberi Mohamad</b> Director of Health Data Science Lab, College of Medicine and Health Sciences, United Arab Emirates University
12:20 - 13:00	0:40	<b>DIFCON2024 Keynote 3: Prof. Ts. Dr. Mohd Khairul bin Ahmad</b> Director of Institute of Integrated Engineering (IIE), Universiti Tun Hussein Onn Malaysia
13:00 - 14:00	1:00	Break

13:50 - 14:00	0:10	Go To <b>CITIC Main Room</b>
<b>CITIC Main Room</b>		Link: <a href="#">CITIC Main Room</a> Meeting ID: 432 224 126 23 Passcode: ztobY9
14:00 - 14:02	0:02	<b>Emcee Welcoming</b>
14:03 - 14:15	0:13	<b>CITIC 2024 Chair Welcoming Remark Sharing by MMU Press – Deputy Director</b>
14:15 - 14:20	0:05	<b>Emcee Announcement and Session Chairs Introduction E-group photo Go to Parallel Rooms</b>
<b>Parallel Rooms</b>		<b>CITIC Room 1: <a href="#">Enter Room 1</a> (Meeting ID: 415 644 243 922 Passcode: V6YTYo) CITIC Room 2: <a href="#">Enter Room 2</a> (Meeting ID: 426 415 972 474 Passcode: U66U9S) CITIC Room 3: <a href="#">Enter Room 3</a> (Meeting ID: 459 573 055 565 Passcode: Keos68) CITIC Room 4: <a href="#">Enter Room 4</a> (Meeting ID: 486 303 364 268 Passcode: YQvriR)</b>
14:20 - 17:20	3:00	<b>Online Presentation Sessions (10-11 person/room) 15 minutes/presenter (10 mins of presentation and 5 mins of Q&amp;A)</b>
17:20 - 17:30	0:10	<b>Best Presenter Award (For Each Room) End of Day I</b>

Day - 2 Wednesday, July 24, 2024		
Time (UTC+8)	Dur'	Activity
9:00 - 9:05	0:05	Go To <b>CITIC Main Room</b>
<b>CITIC Main Room</b>		Link: <a href="#">Link: CITIC Main Room</a> Meeting ID: 432 224 126 23 Passcode: ztobY9
09:05 - 09:15	0:10	<b>Emcee welcoming</b> <b>Announcement to keynote address</b>
09:15 - 09:40	0:25	<b>Keynote Speaker #1</b> Prof. Dr. Zhe Jin Anhui University, China
09:40 - 09:45	0:05	<b>Emcee Announcement and Session Chairs Introduction</b> <b>E-group photo</b> <b>Go to Parallel Rooms</b>
<b>Parallel Rooms</b>		<b>CITIC Room 1:</b> <a href="#">Enter Room 1</a> (Meeting ID: 448 604 753 920 Passcode: jr9Hqw) <b>CITIC Room 2:</b> <a href="#">Enter Room 2</a> (Meeting ID: 423 616 774 089 Passcode: vq8fve) <b>CITIC Room 3:</b> <a href="#">Enter Room 3</a> (Meeting ID: 418 550 310 626 Passcode: iTGLNQ) <b>CITIC Room 4:</b> <a href="#">Enter Room 4</a> (Meeting ID: 476 792 553 333 Passcode: bowKG6) <b>CITIC Room 5:</b> <a href="#">Enter Room 5</a> (Meeting ID: 469 778 449 787 Passcode: jerFUu)
09:45 - 12:45	3:00	<b>Online Presentation Sessions (9-11 person/room)</b> <b>15 minutes/presenter (10 mins of presentation and 5 mins of Q&amp;A)</b>
12:45 - 12:55	0:10	<b>Best Presenter Award (For Each Room)</b>
12:55 - 13:00	0:05	<b>Go to DIFCON Main Room</b>
<b>DIFCON Main Room</b>		Link: <a href="https://tinyurl.com/difcon24-main-room">https://tinyurl.com/difcon24-main-room</a>
13:00 - 13:30	0:30	<b>DIFCON2024 Keynote 4: Dr. Young Joo Ko</b> President of Asian Society for Innovation & Policy
13:30 - 14:00	0:30	Break
14:00 - 14:05	0:05	Go To <b>CITIC Main Room</b>
<b>CITIC Main Room</b>		Link: <a href="#">CITIC Main Room</a> Meeting ID: 432 224 126 23 Passcode: ztobY9
14:05 - 14:10	0:05	<b>Emcee Welcoming</b> <b>Announcement to keynote address</b>
14:10 - 14:35	0:25	<b>Keynote Speaker #2</b> Assoc. Prof. Dr. Aznul Qalid Md Sabri Universiti Malaya, Malaysia

14:35 - 14:40	0:05	<b>Emcee Announcement and Session Chairs Introduction</b> <b>E-group photo</b> <b>Go to Parallel Rooms</b>
<b>Parallel Rooms</b>		
<b>CITIC Room 1:</b> <a href="#">Enter Room 1</a> (Meeting ID: 447 247 598 164 Passcode: bnZjkl) <b>CITIC Room 2:</b> <a href="#">Enter Room 2</a> (Meeting ID: 493 209 494 901 Passcode: gKGHcC) <b>CITIC Room 3:</b> <a href="#">Enter Room 3</a> (Meeting ID: 487 666 503 492 Passcode: bdVucF) <b>CITIC Room 4:</b> <a href="#">Enter Room 4</a> (Meeting ID: 468 446 580 440 Passcode: Kt9Be9) <b>CITIC Room 5:</b> <a href="#">Enter Room 5</a> (Meeting ID: 446 675 609 743 Passcode: zfRvjD) <b>CITIC Room 6:</b> <a href="#">Enter Room 6</a> (Meeting ID: 449 089 067 63 Passcode: pbKzF)		
14:40 - 16:00	1:20	<b>Online Presentation Sessions (5 person/room)</b> <b>15 minutes/presenter (10 mins of presentation and 5 mins of Q&amp;A)</b>  <b>Best Presenter Award (For Each Room)</b>
16:00 - 16:00	0:00	<b>Go to DIFCON Main Room</b>
<b>DIFCON Main Room</b>		
Link: <a href="https://tinyurl.com/difcon24-main-room">https://tinyurl.com/difcon24-main-room</a>		
16:00 - 17:30	1:30	<b>Taylor &amp; Francis Talk: Publishing in Quality Journals</b> Ms. Victoria Babbit Director Research Development and Outreach, Taylor and Francis  <b>End of Day 2</b>

**Day - 3 Thursday, July 25, 2024**

Time (UTC+8)	Dur'	Activity
9:00 - 9:05	0:05	Go To <b>CITIC Main Room</b>
<b>CITIC Main Room</b>		Link: <a href="#">CITIC Main Room</a> Meeting ID: 432 224 126 23 Passcode: ztobY9
09:05 - 09:10	0:05	<b>Emcee welcoming</b> <b>Announcement to invited speech</b>
09:10 - 09:30	0:20	<b>Invited Speaker #1</b> Mr. Tan Aik Keong Chief Executive Officer Agmo Group of Companies, Malaysia
09:30 - 09:35	0:05	<b>Announcement to invited speech</b>
09:35 - 09:55	0:20	<b>Invited Speaker #2</b> Assistant Professor S M Hasan Mahmud American International University-Bangladesh, Bangladesh
09:55 - 10:00	0:05	<b>Emcee Announcement and Session Chairs Introduction</b> <b>E-group photo</b> <b>Go to Parallel Rooms</b>
<b>Parallel Rooms</b>		<b>CITIC Room 1:</b> <a href="#">Enter Room 1</a> (Meeting ID: 466 124 194 760 Passcode: Dn3fVWH) <b>CITIC Room 2:</b> <a href="#">Enter Room 2</a> (Meeting ID: 485 391 263 87 Passcode: XuHSqv) <b>CITIC Room 3:</b> <a href="#">Enter Room 3</a> (Meeting ID: 450 917 050 205 Passcode: HU8Mhv) <b>CITIC Room 4:</b> <a href="#">Enter Room 4</a> (Meeting ID: 484 752 683 432 Passcode: ZsS8yD)
10:00 - 12:50	2:50	<b>Online Presentation Sessions (10 person/room)</b> <b>15 minutes/presenter (10 mins of presentation and 5 mins of Q&amp;A)</b>
12:50 - 13:00	0:10	<b>Best Presenter Award (For Each Room)</b>
13:00 - 14:00	1:00	<b>Break</b>
13:55 - 14:00	0:55	<b>Go to DIFCON Main Room</b>
<b>DIFCON Main Room</b>		Link:
14:00 - 14:05	0:05	Emcee Announcement
14:05 - 14:40	0:35	<b>DIFCON2024 Keynote 5: Mr. Clay Weishaar</b> Augmented Reality, Mixed Reality & Spatial Interactions Designer/Developer, Los Angeles, USA

14:40 - 15:20	0:40	<b>DIFCON2024 Keynote 6: Assoc. Prof. Dr. Zuwairie Ibrahim</b> Faculty of Manufacturing and Mechatronic Engineering Technology, Universiti Malaysia Pahang
15:20 - 16:00	0:40	<b>DIFCON2024 Keynote 7: Prof. Dr. Dima Jamali</b> Vice President of Academic Affairs, Canadian University Dubai, UAE
16:00 - 16:45	0:45	<b>Closing Remarks and Awards Presentation</b> Prof. Dr. Kamarulzaman Ab. Aziz DIFCON2024 General Chair
16:45 - 17:00	0:15	<b>E-group photo</b> <b>End of DIFCON2024</b>

Day 1: Tuesday, 23 July 2024

CITIC - ROOM 1

Microsoft Teams Link: [Enter Room 1](#)  
(Meeting ID: 415 644 243 922 Passcode: V6YTYo)

Session 1: 14:20 - 17:20 (UTC +8)

Session Chair:

### Track Software Engineering

Schedule	Authors	Paper Title
14:20 - 14:35	Khairil Imran Ghauth and Baskaran Govindaras (Multimedia University, Malaysia)	A Proposed Requirement Prioritization process to improve accuracy in Agile Software Development
14:35 - 14:50	Liana Ameerah Rosli, Jun-Yu Fong and Sin-Ban Ho (Multimedia University, Malaysia)	Enhancing Container Security with Image Scanning and Signing
14:50 - 15:05	Iksan Bukhori and Syafira Fauzia (President University, Indonesia); Kok Swee Sim (Multimedia University, Malaysia)	Smart Home System with Dual Communication Network with Short Messaging Service and Telegram
15:05 - 15:20	Ting Ting Yong Michelle, Sin-Ban Ho and Chuie-Hong Tan (Multimedia University, Malaysia)	Migraine Generative AI System
15:20 - 15:35	Zhi-Sheng Lim, Sin-Ban Ho and Chuie-Hong Tan (Multimedia University, Malaysia)	Enhancing Travel Planning Efficiency with a Comprehensive TripEase GenAI Mechanism
15:35 - 15:50	Fung Ji Lim (Tunku Abdul Rahman University of Management and Technology, Malaysia)	Overview of Software Re-Engineering Concepts, Models and Approaches

### Track IoT, Big Data & Blockchain Technology

Schedule	Authors	Paper Title
15:50 - 16:05	Priya L and Gomathi V (Anna University, India); Naveen Palanichamy (Multimedia University, Malaysia)	A Secure Cloud Service Game theory approach to Demand Response modelling for residential users in Smart grid
16:05 - 16:20	Hong Yeap Ngo, Nurul Ain Abdul Aziz, Kan Yeep Choo, Tee Connie and Hafiz Zulhazmi Bin Jabidin (Multimedia University, Malaysia)	Classification of Power Tool Vibrations Using Support Vector Machine for Road Damaging Prevention
16:20 - 16:35	Nurul Ain Abdul Aziz, Hong Yeap Ngo, Hafiz Zulhazmi Bin Jabidin, Kan Yeep Choo and Tee Connie (Multimedia University, Malaysia); Sithi Vinayakam	Machine Learning-Based Intrusion Detection Using Distributed Optical Fiber Sensing Technology

	Muniandy (University of Malaya, Malaysia)	
16:35 - 16:50	Loo Chan Jin (Multimedia University, Malaysia)	Data Analysis on Factors Influencing Oceanic Plastic Pollution



Day 1: Tuesday, 23 July 2024

CITIC - ROOM 2

Microsoft Teams Link: [Enter Room 2](#)  
(Meeting ID: 426 415 972 474 Passcode: U66U9S)

Session 1: 14:20 - 17:20 (UTC +8)

Session Chair:

### Track IoT, Big Data & Blockchain Technology

Schedule	Authors	Paper Title
14:20 - 14:35	Siti Fatimah Abdul Razak and Nazrul Muhaimin Ahmad (Multimedia University, Malaysia); Anang Hudaya H Muhamad Amin (Higher Colleges of Technology, United Arab Emirates)	Adopting Emulation-Based Approach in Verifying E-Certificates Using Permissioned Blockchain
14:35 - 14:50	Mahmoud Al Shawabkeh, Chun Qing Li, Xi Chun Li and Dongqi Liu (Guangxi Minzu Normal University, China)	Evaluating Benefits and Risks of Using the Internet of Things (IoT) for Crime Investigation System Engineering
14:50 - 15:05	Israr Ahmad (Sunway University, Malaysia); Angela Amphawan (Sunway University & School of Engineering and Technology, Malaysia); Kok-Lim Alvin Yau (Universiti Tunku Abdul Rahman, Malaysia); Mee Hong Ling (Sunway University, Malaysia); Tse Kian Neo (Multimedia University, Malaysia)	RL-based Centralized Trust Model for 5G and Beyond Networks
15:05 - 15:20	Pronoy Chandra Sarker (American International University-Bangladesh, Bangladesh); Debanjon Dutta Purkaystha and MD. Mostofa kamal Shishir (American International University-Bangladesh, Bangladesh); Nafiz Fahad (Multimedia University, Malaysia & American International University-Bangladesh, Bangladesh); Tze Hui Liew (Multimedia University, Malaysia)	Innovating Sustainable Mobility A Next Gen: IoT And RFID Integrated Hybrid Charging Eco-Hub
15:20 - 15:35	Mahrhan Ghanem (Sunway University, Malaysia); Angela Amphawan (Sunway University & School of	Sparse Code Multiple Access with Hermite-Gaussian Modes for Enhanced Security in Free Space Optical Communication

	Engineering and Technology, Malaysia); Athirah Mohd Ramly (University of East London, United Kingdom (Great Britain)); Tse Kian Neo (Multimedia University, Malaysia); Nur Ily Syuhada Ahmad Blya (Sunway University, Malaysia)	
15:35 – 15:50	Choo Kim Tan (MMU, Malaysia); Yun-Siang Gan (Multimedia University, Malaysia)	IOT Based Gardening System (Irrigation)

### Track Security & Privacy

Schedule	Authors	Paper Title
15:50 – 16:05	Mohamad Firdaus Mat Saad (Multimedia University); Mohamad Firdaus Bin Mat Saad and Su Cheng Haw (Multimedia University, Malaysia)	Machine Learning in Network Intrusion Detection Systems: A Comprehensive Review of Limitations, Proposed Solutions, and Comparative Analysis
16:05 – 16:20	Athirah Mohd Ramly (University of East London, United Kingdom (Great Britain)); Ng Zi Wei, Yahya Khamayseh and Charis Shwu Chen Kwan (Sunway University, Malaysia); Angela Amphawan (Sunway University & School of Engineering and Technology, Malaysia); Tse Kian Neo (Multimedia University, Malaysia)	Analysis of Cyber Threats and Attacks in VoIP
16:20 – 16:35	Athirah Mohd Ramly (University of East London, United Kingdom (Great Britain)); Robbin Ooi, Yahya Khamayseh and Charis Shwu Chen Kwan (Sunway University, Malaysia); Tse Kian Neo (Multimedia University, Malaysia); Angela Amphawan (Sunway University & School of Engineering and Technology, Malaysia)	Security Model for Blocking Spam Calls in VoIP Systems
16:35 – 16:50	Vicki Wei Qi Lee, Shih Yin Ooi, Ying Han Pang and Kiu Nai Pau (Multimedia University, Malaysia)	A Study on Browser Fingerprinting Uniqueness Using Clustering Methods and Entropy Validation

Day 1: Tuesday, 23 July 2024

CITIC - ROOM 3

Microsoft Teams Link: [Enter Room 3](#)  
(Meeting ID: 459 573 055 565 Passcode: Keos68)

Session 1: 14:20 - 17:20 (UTC +8)

Session Chair:

### Track Information Systems

Schedule	Authors	Paper Title
14:20 - 14:35	Muhammad Haziq Fikri Bin Azri, Su Cheng Haw, Kok-Why Ng and Mohamad Firdaus Bin Mat Saad (Multimedia University, Malaysia)	Context-Aware Job Recommender System
14:35 - 14:50	Ervin Chung, Lee-Ying Chong, Siew Chin Chong and Pey Yun Goh (Multimedia University, Malaysia)	Building Scalable E-Commerce Platforms with Microservices Architecture and Event-Driven Dynamic Feedback Mechanism
14:50 - 15:05	Achmad Udin Zailani and Wan Nooraishya Wan Ahmad (Universiti Malaysia Sabah, Malaysia); Nooralisa Mohd Tuah (University Malaysia Sabah, Malaysia)	A Comparative Study on Persuasive Strategies in Anxiety Disorder Application
15:05 - 15:20	Yee Jian Chew and Shih Yin Ooi (Multimedia University, Malaysia); Sheriza Mohd-Razali (Universiti Putra Malaysia, Malaysia); Ying Han Pang and Zheng You Lim (Multimedia University, Malaysia)	Enhancing Land Management through U-Net Deep Learning: A Case Study on Climate-Related Land Degradation in Berembun Forest Reserve in Malaysia

### Track Software Engineering

Schedule	Authors	Paper Title
15:20 - 15:35	Chinwe Miracle Chituru and Sin-Ban Ho (Multimedia University, Malaysia); Ian Chai (Multimedia University, Malaysia)	Integrating Spatial Computing with Clinical Pathology for Enhanced Diagnosis and Treatment Informatics in Healthcare
15:35 - 15:50	Salma Jahan Nisha, Nbhah D. Salih and Wan Noorshahida Mohd-Isa (Multimedia University, Malaysia)	A Conceptual Framework of Sign Language Enable Chatbot for E-commerce
15:50 - 16:05	Jun-Xuan Kok (Multimedia University Cyberjaya, Malaysia); Sin-Ban Ho and Chuie-Hong Tan (Multimedia University, Malaysia)	Enhancing Financial Literacy: A Progressive Web Application Approach for Malaysian Youth

16:05 – 16:20	Kar-Ming Law (Multimedia University Cyberjaya, Malaysia); Sin-Ban Ho and Chuie-Hong Tan (Multimedia University, Malaysia)	Empowering Dental Healthcare: Leveraging Artificial Intelligence for Chatbot Accessibility and Informed Decision-Making
16:20 – 16:35	Shoron Md Afif Rahman (Multimedia University, Malaysia); Ian Chai (Multimedia University, Malaysia)	Moldable Development to Improve Code Productivity
16:35 – 16:50	Sze Kai Gan, Wong Thein Lai and Ching Pang Goh (Tunku Abdul Rahman University of Management and Technology, Malaysia)	Empowering Industry 4.0: Revolutionizing Data Exchange with Reactive Microservices-based Data Connector

Day 1: Tuesday, 23 July 2024

CITIC - ROOM 4

Microsoft Teams Link: [Enter Room 4](#)  
(Meeting ID: 486 303 364 268 Passcode: YQvriR)

Session 1: 14:20 - 17:20 (UTC +8)

Session Chair:

### Track Security & Privacy

Schedule	Authors	Paper Title
14:20 - 14:35	Ayu Amira Idris, Naufal Zainuddin, Anisya Usman, Hakim Afandi, Daniel-Imtiyaz Faisal and Wan Noorshahida Mohd-Isa (Multimedia University, Malaysia)	Machine Learning Analysis on Commonly Occurring Cybersecurity Attacks
14:35 - 14:50	Muhammad Nadzmi Bin Mohd Nizam and Shih Yin Ooi (Multimedia University, Malaysia); Soodamani Ramalingam (University of Hertfordshire, United Kingdom (Great Britain)); Ying Han Pang (Multimedia University, Malaysia)	Enhancing Continuous Authentication through Touch Stroke Analysis with Explainable AI (xAI)
14:50 - 15:05	Jia Shun Pour, Shih Yin Ooi, Ying Han Pang and Yee Jian Chew (Multimedia University, Malaysia)	Experimental Study of ResNet-Based, CustomCNN, and VGGFace in Makeup Presentation Attack Detection
15:05 - 15:20	Wun Puo Lim, Shih Yin Ooi and Ying Han Pang (Multimedia University, Malaysia); Soodamani Ramalingam (University of Hertfordshire, United Kingdom (Great Britain)); Yee Jian Chew (Multimedia University, Malaysia)	Dynamic Touchstroke Analysis With eXplainable Artificial Intelligence (XAI) Tree-Based Learners

### Track Artificial Intelligence & Machine Learning

Schedule	Authors	Paper Title
15:20 - 15:35	Arya Fernandi, Sofia Sa'idah and Rita Magdalena (Telkom University, Indonesia)	Handwritten Hiragana Letter Detection using YOLO
15:35 - 15:50	Muhammad Hafizh Abdurrahman, Yudha Purwanto and Surya Michrandi Nasution (Telkom University, Indonesia)	Credit Card Fraud Detection Using Cost-Sensitive Random Forest Enhanced With Oversampling and Undersampling
15:50 - 16:05	Chin Sin Ong, Tee Connie and Goh Kah Ong	Traffic Violation Detection Using Computer Vision Techniques

	Michael (Multimedia University, Malaysia)	
16:05 - 16:20	Albert Quek (Multimedia University, Malaysia); Wee Lau Cheong (MMU, Malaysia)	Evolutionary Game Level Design: Exploring Genetic Algorithms in Procedural Content Generation for Grid-based 3D Games
16:20 - 16:35	Ye Zhian Teoh (Universiti Multimedia, Malaysia); Yim Ling Loo, Ts (Multimedia University & Universiti Tenaga Nasional, Malaysia)	A Fundamental Framework for Analysis of Rainfall Prediction Features Significance
16:35 - 16:50	Lucia D. Krisnawati, Thomas Widiarya Budiman and Laurentius Kuncoro Probo Saputra (Universitas Kristen Duta Wacana, Indonesia); Su Cheng Haw (Multimedia University, Malaysia)	The use of Unsupervised Learning for stylometric feature selection in Authorship Verification System
16:50 - 17:05	Goh Kah Ong Michael (Multimedia University, Malaysia); S M Hasan Mahmud (American International University-Bangladesh (AIUB), Bangladesh); Saify Abid Bhuiyan (American International University - Bangladesh (AIUB), Bangladesh); Dip Nandi (AIUB, Malaysia)	Enhanced Diabetes Prediction Using XGBoost and Explainable AI

Day 2: Wednesday, 24 July 2024

CITIC - ROOM 1

Microsoft Teams Link: [Enter Room 1](#)  
(Meeting ID: 448 604 753 920 Passcode: jr9Hqw)

Session 1: 09:45 - 12:45 (UTC +8)

Session Chair:

### Track Security & Privacy

Schedule	Authors	Paper Title
09:45 - 10:00	Saida Hafsa Rafique, Amira Abdallah and Shama Ali Alhosani (United Arab Emirates University, United Arab Emirates); Norziana Jamil (United Arab Emirates University, UAE, United Arab Emirates & Universiti Tenaga Nasional, MALAYSIA, Malaysia)	A Review of AMQP Protocol: Characteristics, Security Challenges and Proposed Enhancement
10:00 - 10:15	Koon-Ming Chan and Swee-Huay Heng (Multimedia University, Malaysia); Syh-Yuan Tan (Newcastle University, United Kingdom (Great Britain)); Shing Chiang Tan (Multimedia University, Malaysia)	Ciphertext-Policy Decryptable Attribute-Based Keyword Search using Type-3 Pairing
10:15 - 10:30	Joan Hau (TARUMT, Malaysia); Yiqi Tew (Tunku Abdul Rahman University of Management and Technology, Malaysia); Li Peng Tan (Tunku Abdul Rahman University College, Malaysia)	A Novel Information Hiding Approach using Selective Quantization Technique in Video Coding
10:30 - 10:45	Kim Son Lim, Shih Yin Ooi, Md Shohel Sayeed and Nazrul Muhaimin Ahmad (Multimedia University, Malaysia)	Systematic Review on IoT Architecture, Security Threats, and Possible Measures

### Track Pattern & Image Processing

Schedule	Authors	Paper Title
10:45 - 11:00	Mohd Haris Lye Abdullah (MMU, Malaysia); Mohammad Faizal Ahmad Fauzi and Lim Kian Ming (Multimedia University, Malaysia)	Maize Leaf Diseases Identification with Large and Lightweight Convolutional Neural Network Models
11:00 - 11:15	Teo Min Er, Lee-Ying Chong, Siew Chin Chong and Pey Yun Goh (Multimedia University, Malaysia)	2.5D Face Recognition System using EfficientNet with Various Optimizers

11:15 – 11:30	Hui-Shan Chin, Lee-Ying Chong, Siew Chin Chong, Pey Yun Goh and Check-Yee Law (Multimedia University, Malaysia)	Vehicle Logo Recognition using Deep Learning Models
11:30 – 11:45	Injamul Haque Suvon, Yuen Peng Loh, Noramiza Hashim, Wan Noorshahida Mohd-Isa, Choo-Yee Ting, Khairil Imran Ghauth and Arpita Bhattacharijee (Multimedia University, Malaysia)	Enhancing Business Recommendation through Satellite Image Analysis with Multi-visual Feature Fusion
11:45 – 12:00	Kai Liang Lew, Kok Swee Sim and Shing Chiang Tan (Multimedia University, Malaysia)	Quadratic Sigmoid Single Image Estimation Techniques for SEM Imaging System



**Day 2: Wednesday, 24 July 2024**

**CITIC - ROOM 2**

**Microsoft Teams Link: [Enter Room 2](#)  
(Meeting ID: 423 616 774 089 Passcode: vq8fve)**

**Session 1: 09:45 - 12:45 (UTC +8)**

**Session Chair:**

### **Track Pattern & Image Processing**

Schedule	Authors	Paper Title
09:45 - 10:00	Hong Chiang Koh, Tee Connie and Goh Kah Ong Michael (Multimedia University, Malaysia)	Screening for Dementia Symptoms through Detection of Repetitive Behaviors in Visual Data
10:00 - 10:15	Mohamed Abbas M. Elsayed and Noramiza Hashim (Multimedia University, Malaysia); Abdul Aziz Abdul Rahman (Telekom Research & Development, Malaysia); Mohammed Al Haek (International Islamic University Malaysia, Malaysia)	Deep Learning-based Utility Pole Safety Assessment from Visual Data
10:15 - 10:30	Han Foon Neo and Kin Aik Law (Multimedia University, Malaysia); Chuan Chin Teo (Multimedia University Malaysia, Malaysia)	Augmented Reality Technology in Aiding Preschoolers' Education
10:30 - 10:45	Kok Swee Sim and Yu Jie Ng (Multimedia University, Malaysia)	A Review of Brain Early Infarct Image Contrast Enhancement Using Various Histogram Equalization Techniques

### **Track Information Systems**

Schedule	Authors	Paper Title
10:45 - 11:00	Veron Then Ming Yao, Lee-Ying Chong, Siew Chin Chong, Pey Yun Goh and Check-Yee Law (Multimedia University, Malaysia)	Badminton Court Management Featuring Data Analytics
11:00 - 11:15	Erfan Rahmani (MMU, Malaysia); Zarina Che Embi (Multimedia University, Malaysia)	Path To a Healthy Work-Life Balance: Mobile Application for Work and Personal Life Mastery
11:15 - 11:30	Mursid W Hananto (Universitas Ahmad Dahlan, Indonesia); Amalia Muti'ah Khairunnisa (Universitas Gadjah Mada, Indonesia)	3D Online Parts Catalog For Quick Identification and Learning
11:30 - 11:45	Han Foon Neo and Liyu Guang Jie (Multimedia University, Malaysia)	Clothing E-Commerce Featuring Data Analytics
11:45 - 12:00	Yap Zhi Toung and Su Cheng Haw (Multimedia University,	Hybrid-Based Food Recommender System Utilizing KNN and SVM Approaches

	Malaysia); Nur Erlida Ruslan (Multimedia University, Cyberjaya, Malaysia)	
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Day 2: Wednesday, 24 July 2024

CITIC - ROOM 3

Microsoft Teams Link: [Enter Room 3](#)  
(Meeting ID: 418 550 310 626 Passcode: iTGLNQ)

Session 1: 09:45 - 12:45 (UTC +8)

Session Chair:

### Track Information Systems

Schedule	Authors	Paper Title
09:45 - 10:00	Elham Anaam, Su Cheng Haw, Kok-Why Ng and Naveen Palanichamy (Multimedia University, Malaysia); Jayapradha J (SRM Institute of Science and Technology & Kattankulathur, India)	Applying Fuzzy Algorithm for New Hybrid Recommendation System in Cybersecurity
10:00 - 10:15	Wan Er Kong, Su Cheng Haw, Tong Ern Tai, Naveen Palanichamy and Kok-Why Ng (Multimedia University, Malaysia)	E-learning Recommender System based on k-Nearest Neighbour (KNN), Singular Value Decomposition (SVD) and CoClustering Approaches
10:15 - 10:30	Bing-Zhi Lee, Meng-Chew Leow and Lee-Yeng Ong (Multimedia University, Malaysia)	Comparative Usability Analysis of Grab and Foodpanda Mobile Applications
10:30 - 10:45	Yi Heng Te, Meng-Chew Leow and Lee-Yeng Ong (Multimedia University, Malaysia)	Factors Influencing Consumer's Purchasing Intention on Electric Vehicles
10:45 - 11:00	Choo Peng Tan, Siong Hoe Lau and Ah Choo Koo (Multimedia University, Malaysia)	Research Framework of Incorporating Conversational Agent in Undergraduate Mathematics Learning
11:00 - 11:15	Kai Liang Lew and Kok Swee Sim (Multimedia University, Malaysia); Tham Wan Yu (Ardenetec, Singapore)	Immersive Virtual Reality Based Mirror Therapy in Unreal Engine
11:15 - 11:30	Choo Kim Tan (MMU, Malaysia); Justin Ji-Yii Yong (Multimedia University, Malaysia)	Sitting Posture Checking Using POSENET
11:30 - 11:45	Choo Kim Tan (MMU, Malaysia); Jacky Ming-Hong Ho (Multimedia University, Malaysia)	Book Search Using ORB Detection & Speech Recognition
11:45 - 12:00	Choo Kim Tan (MMU, Malaysia); Huan Long Lin (Multimedia University, Malaysia)	Prototype: Smart Alarm Clock System

**Day 2: Wednesday, 24 July 2024**

**CITIC - ROOM 4**

**Microsoft Teams Link: [Enter Room 4](#)  
(Meeting ID: 476 792 553 333 Passcode: bowKG6)**

**Session 1: 09:45 - 12:45 (UTC +8)**

**Session Chair:**

### Track Information Systems

Schedule	Authors	Paper Title
09:45 - 10:00	Nik Ahmad Uzair Nik Ahmad Faisal and Zarina Che Embi (Multimedia University, Malaysia)	Designing a Flutter-based Community Recipe Mobile Application
10:00 - 10:15	Ahmed Adam Abbas, Vizshnu Supramaniam and Zarina Che Embi (Multimedia University, Malaysia)	Designing an AI-powered Fitness and Health Application
10:15 - 10:30	Mahmoud Yehia Emam Selim Rehan (Multimedia University - MMU Cyberjaya, Malaysia); Wan Noorshahida Mohd-Isa and Noramiza Hashim (Multimedia University, Malaysia)	A Conceptual Proposal for Utilizing CNN for Predictive Modelling of Seismic Events and Flood Risks
10:30 - 10:45	Sini Govinda Pillai (Multimedia University, Malaysia); Soon Lay-Ki (Monash University Malaysia, Malaysia); Su Cheng Haw (Multimedia University, Malaysia)	Domain-Independent True Fact Identification from Knowledge Graphs
10:45 - 11:00	Hidayah Sulaiman (Universiti Tenaga Nasional, Malaysia); Kairulanuar Ab Kadir (Multimedia University, Malaysia); Azmi Mohd Yusof (University of Tenaga Nasional, Malaysia); Nazrita Ibrahim (Universiti Tenaga Nasional, Malaysia)	Comparative usability analysis of mobile VR and desktop 3D for Interactive Virtual Turbine Lab (IVT Lab)
11:00 - 11:15	Han Foon Neo and Ren Jie Ng (Multimedia University, Malaysia)	Augmented Reality Mobile Shopping Assistant
11:15 - 11:30	Yit Yin Wee and Zi Ao Wong (Multimedia University, Malaysia)	Market Basket Analysis System Using Association Mining
11:30 - 11:45	Nura Shifa Musa (Al Ain University, United Arab Emirates); Saida Hafsa Rafique and Elezabeth Mathew (United Arab Emirates University, United Arab Emirates)	Hospital Sceduling Systems Current Challenges and Emerging Solutions
11:45 - 12:00	Nor Liyana Natasha Bt Muhammad Syafiq	Hybrid-Based Recommender System Based on Electronic Product Reviews

	Chelvam and Su Cheng Haw (Multimedia University, Malaysia); Lucia D. Krisnawati and Aditya Mahastama (Universitas Kristen Duta Wacana, Indonesia)	
12:00 - 12:15	Jun Yuan Chong, Siew Chin Chong and Lee-Ying Chong (Multimedia University, Malaysia)	Predictive Weather: Harnessing Machine Learning for Accurate Forecasting

Day 2: Wednesday, 24 July 2024

CITIC - ROOM 5

Microsoft Teams Link: [Enter Room 5](#)  
(Meeting ID: 469 778 449 787 Passcode: jerFUu)

Session 1: 09:45 - 12:45 (UTC +8)

Session Chair:

### Track Artificial Intelligence & Machine Learning

Schedule	Authors	Paper Title
09:45 - 10:00	Athirah Mohd Ramly (University of East London, United Kingdom (Great Britain)); Daveena SM Rajah, Yahya Khamayseh and Charis Shwu Chen Kwan (Sunway University, Malaysia); Angela Amphawan (Sunway University & School of Engineering and Technology, Malaysia); Tse Kian Neo (Multimedia University, Malaysia)	CCTV Armed Robbery Detection with YOLOv8
10:00 - 10:15	Chun Gee Wong, Gee Kok Tong and Su Cheng Haw (Multimedia University, Malaysia)	Exploring Customer Segmentation in E-commerce Using RFM Analysis with Clustering Techniques
10:15 - 10:30	Leigha SJ Raymundo (Polytechnic University of the Philippines, Philippines); Briana Mia V Capul (Polytechnic University of the Philippines, Philippines); Kristle Mae R Dimayuga and Marianito P Gallego, Jr. (Polytechnic University of the Philippines, Philippines)	Characterization of Grade 11 Students from Public and Private Schools: An Analysis on AI Perception and AI Literacy Readiness
10:30 - 10:45	Inam Razzaq Abd Almohsen (Sunway University, Malaysia); Angela Amphawan (Sunway University & School of Engineering and Technology, Malaysia); Sardar Islam (Australia); Tse Kian Neo (Multimedia University, Malaysia)	Deep Learning Approaches for Optical Angular Momentum Beam Distinction
10:45 - 11:00	Kok Swee Sim, Shun Wei Wong and Kai Jie Low (Multimedia University, Malaysia); Andi Prademon Yunus (Institut Teknologi Telkom Purwokerto, Indonesia); Chee Peng Lim (Deakin University, Australia)	Real-Time Digital Assistance for Exercise: Exercise tracking system with Mediapipe angle directive rules

11:00 – 11:15	Md. Kishor Morol (American International University-Bangladesh, Bangladesh); Nafiz Fahad (Multimedia University, Malaysia & American International University-Bangladesh, Bangladesh); Md. Abdullah - Al - Jubair (American International University-Bangladesh (AIUB), Bangladesh); Goh Kah Ong Michael (Multimedia University, Malaysia)	The Next Chapter in Wound Analysis: Introducing a Hybrid Model for Improved Segmentation With the help of Deep Convolutional Neural Network
11:15 – 11:30	Rasel Ahmed (American International University-Bangladesh, Bangladesh); Nafiz Fahad (Multimedia University, Malaysia & American International University-Bangladesh, Bangladesh); Md Saef Ullah Miah (American International University-Bangladesh, Bangladesh); Goh Kah Ong Michael (Multimedia University, Malaysia); Mufti Mahmud (Nottingham Trent University, United Kingdom (Great Britain)); M. Mostafizur Rahman (American International University Bangladesh, Italy)	A Customized Ensemble Machine Learning Approach: Predicting Students' Exam Performance
11:30 – 11:45	M Yoka Fathoni (Institut Teknologi Telkom Purwokerto, Indonesia); Kok Swee Sim (Multimedia University, Malaysia); Andi Prademon Yunus, Sukmadiningtyas Sukmadiningtyas and Mahazam Afrad (Institut Teknologi Telkom Purwokerto, Indonesia)	Implementing the Fuzzy Time Series Method for Predicting PM2.5 Pollutants in the Air
11:45 – 12:00	Jing-Chi Yee, Su Cheng Haw, Kok-Why Ng and Mohamad Firdaus Bin Mat Saad (Multimedia University, Malaysia)	Healthcare Fraud Detection Using Machine Learning Techniques
12:00 – 12:15	Lih Poh Lin (Tunku Abdul Rahman University of Management and Technology & Centre for Multimodal Signal Processing, Malaysia)	Skin Lesion Classification: A Deep Learning Approach with Local Interpretable Model-Agnostic Explanations (LIME) for Explainable Artificial Intelligence (XAI)
12:15 – 12:30	Goh Kah Ong Michael (Multimedia University, Malaysia); S M Hasan Mahmud (American International University-	Predicting different classes of Alzheimer's disease Using Transfer Learning and Ensemble Classifier

	Bangladesh (AIUB), Bangladesh); Mubasshar-Ul- Ishraq Tamim, Sumaiya Malik and Soily Ghosh Sneha (American International University - Bangladesh (AIUB), Bangladesh); Dip Nandi (AIUB, Malaysia)	
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Day 2: Wednesday, 24 July 2024

CITIC - ROOM 1

Microsoft Teams Link: [Enter Room 1](#)  
(Meeting ID: 447 247 598 164 Passcode: bnZjkl)

Session 2: 14:40 - 17:15 (UTC +8)

Session Chair:

### Track Artificial Intelligence & Machine Learning

Schedule	Authors	Paper Title
14:40 - 14:55	Hafizur Rahman Nayan (American International University Bangladesh, Bangladesh); Md. Hossain (Lecturer, Bangladesh); Nafiz Fahad (Multimedia University, Malaysia & American International University-Bangladesh, Bangladesh); Tze Hui Liew (Multimedia University, Malaysia)	Review on Enhancing Surveillance Systems through Multi-Modal Data Fusion for Advance Human Behaviour Analysis
14:55 - 15:10	Kai Liang Lew and Kok Swee Sim (Multimedia University, Malaysia); Ting Zehong (Huawei Technologies (Malaysia) Sdn. Bhd, Malaysia)	Deep Learning Approach EEG Signal Classification
15:10 - 15:25	Nafiz Fahad (Multimedia University, Malaysia & American International University-Bangladesh, Bangladesh); Rasel Ahmed (American International University-Bangladesh, Bangladesh); Fariya Sultana Prity (American International University-Bangladesh, Bangladesh); Goh Kah Ong Michael (Multimedia University, Malaysia); Md. Kishor Morol (American International University-Bangladesh, Bangladesh); Kazi Ashikur Rahman (Universiti Teknikal Malaysia, Malaysia)	Advancements in Human Movement Monitoring: A Comprehensive Approach Leveraging Deep Learning and Machine Learning Techniques
15:25 - 15:40	Fariya Sultana Prity (American International University-Bangladesh, Bangladesh); Nafiz	Enhancing Fake News Detection: A Unified Approach Using Combined ANN, CNN, and RNN Models

	Fahad (Multimedia University, Malaysia & American International University-Bangladesh, Bangladesh); S. M Asif Hossain, Ruksat Khan Shayoni and Md. Kishor Morol (American International University-Bangladesh, Bangladesh); Tze Hui Liew (Multimedia University, Malaysia)	
15:40 – 15:55	Tahir H. Ahmed (Multimedia University, Malaysia); Hamna Tahir (Bahria University, Pakistan); Muhammad Ziad Tariq (SZABIST University, Pakistan); Azwan Mahmud (Multimedia University & Telekom Malaysia, Malaysia)	XAI-Enhanced HRM: Leveraging Large Language Models for Talent Acquisition and Management

**Day 2: Wednesday, 24 July 2024**

**CITIC - ROOM 2**

**Microsoft Teams Link: [Enter Room 2](#)  
(Meeting ID: 493 209 494 901 Passcode: gKGHcC)**

**Session 2: 14:40 - 17:15 (UTC +8)**

**Session Chair:**

**Track Artificial Intelligence & Machine Learning**

Schedule	Authors	Paper Title
14:40 - 14:55	Sarmela Raja Sekaran, Ying Han Pang, Zheng You Lim and Shih Yin Ooi (Multimedia University, Malaysia)	Feature-Level Fusion Multi-Sensor Aggregation Temporal Network for Smartphone-Based Human Activity Recognition
14:55 - 15:10	Lim Yi Yang, Kian Ming Lim, Thian Song Ong and Chin Poo Lee (Multimedia University, Malaysia)	Customer Churn Prediction for Telecommunication Industry using Extreme Gradient Boosting and Minimum Redundancy and Maximum Relevance
15:10 - 15:25	Pa Pa Min, Thian Song Ong and Md Shohel Sayeed (Multimedia University, Malaysia)	Explainable Machine Learning Approach for Income Inequality Analysis in Malaysia
15:25 - 15:40	Zhiqiang Luo (Foshan University, China); Tek Yong Lim (Multimedia University, Malaysia); Xia Hua (Foshan University, China)	Segmentation of Plan CT Image of Ischemic Lesion based on Trans-Swim-UNet
15:40 - 15:55	Ferdib Al Islam and Mostofa Shariar Sanim (Northern University of Business and Technology Khulna, Bangladesh); Goh Kah Ong Michael (Multimedia University, Malaysia); S M Hasan Mahmud (American International University-Bangladesh (AIUB), Bangladesh); Dip Nandi (AIUB, Malaysia)	Alzheimer's Disease Prediction Using ANOVA-based Feature Selection with t-Distributed Neighbor Embedding and Ensemble Learning

**Day 2: Wednesday, 24 July 2024**

**CITIC - ROOM 3**

**Microsoft Teams Link: [Enter Room 3](#)  
(Meeting ID: 487 666 503 492 Passcode: bdVucF)**

**Session 2: 14:40 - 17:15 (UTC +8)**

**Session Chair:**

**Track Artificial Intelligence & Machine Learning**

Schedule	Authors	Paper Title
14:40 - 14:55	Ryan Mo Xian Wee, Tee Connie and Goh Kah Ong Michael (Multimedia University, Malaysia)	Wrong-Way Driving Detection for Enhanced Road Safety using Computer Vision and Machine Learning Techniques
14:55 - 15:10	Md Sadi Al Huda, Md. Asraf Ali, Ridwan Jamal Sadib and Ajran Hossain (American International University-Bangladesh, Bangladesh); Fatama Tuz Johora (University of Chittagong, Bangladesh); Tze Hui Liew (Multimedia University, Malaysia); Nasim Ahmed (The University of Sydney, Australia)	Enhancing Early Detection of Melanoma: A Deep Learning Approach for Skin Cancer Prediction
15:10 - 15:25	Phan Van Hong Thang (Ho Chi Minh City University of Technology & HBT Company, Vietnam)	Use Symbiotic Organisms Search algorithm to calculate optimal generator capacity
15:25 - 15:40	Ahmad F Cayzer and Yoon-Teck Bau (Multimedia University, Malaysia)	Predicting the Next Day's Closing Price of Stock Indices Using Machine Learning and Deep Learning Algorithms
15:40 - 15:55	Heng Yi Jun and Meng-Chew Leow (Multimedia University, Malaysia)	Petrol Price Prediction Using Machine Learning

**Day 2: Wednesday, 24 July 2024**

**CITIC - ROOM 4**

**Microsoft Teams Link: [Enter Room 4](#)  
(Meeting ID: 468 446 580 440 Passcode: Kt9Be9)**

**Session 2: 14:40 - 17:15 (UTC +8)**

**Session Chair:**

**Track Artificial Intelligence & Machine Learning**

Schedule	Authors	Paper Title
14:40 - 14:55	Simon Peter Cornelius (Tunku Abdul Rahman University of Management and Technology & Qwer, Malaysia); Jia Jan Ong (Tunku Abdul Rahman University of Management and Technology, Malaysia); Tsung Heng Chiew (Tunku Abdul Rahman University College, Malaysia); Kai Ming Chang (Tunku Abdul Rahman University of Management and Technology, Malaysia); Yoon-Ket Lee (Tunku Abdul Rahman University College, Malaysia)	Autonomous robot navigation system for monitoring and maintenance of "Customate" line in the context of Industry 4.0
14:55 - 15:10	Ngee Wee Quan, Goh Hui-Ngo and Amy Lim Hui Lan (Multimedia University, Malaysia)	AI-Based Intrusion Detection through Ensemble Approaches
15:10 - 15:25	Dylan Yong Seng Lim (FCI, Malaysia); Goh Hui-Ngo, Choo-Yee Ting and Albert Quek (Multimedia University, Malaysia)	Sentiment Analysis on Live Data
15:25 - 15:40	Tong Ern Tai, Su Cheng Haw, Wan Er Kong, Kok-Why Ng, Naveen Palanichamy and Fang-Fang Chua (Multimedia University, Malaysia)	Performance Evaluation on Resolution Time Prediction Using XGBoost, Bagging and Extra Trees Algorithms
15:40 - 15:55	Yohan Chang and Ki Hoon Lee (Korea Research Institute for Human Settlements (KRIHS), Korea (South))	PRiSm: Policy Recommendation Systems in Cadastral Survey using National Public Opinion Big Data

**Day 2: Wednesday, 24 July 2024**

**CITIC - ROOM 5**

**Microsoft Teams Link: [Enter Room 5](#)  
(Meeting ID: 446 675 609 743 Passcode: zfRvjD)**

**Session 2: 14:40 - 17:15 (UTC +8)**

**Session Chair:**

**Track Artificial Intelligence & Machine Learning**

Schedule	Authors	Paper Title
14:40 - 14:55	Puteri Ainna Ezzurin Mohd Reza, Yoon-Teck Bau and Lee Kian Chin (Multimedia University, Malaysia)	Developing and Comparing Machine Learning Algorithms for Music Recommendation
14:55 - 15:10	Aziah Ali, Noramiza Hashim and Muhammad Faris Shaik Mohamed (Multimedia University, Malaysia)	Identification of Fish Species from Local Fish Market Images
15:10 - 15:25	Jirat Chongwarin, Paiboon Manorom and Wirapong Chansanam (Khon Kaen University, Thailand)	Impact of User Rating Analysis on Book Recommendation Accuracy with Collaborative Filtering Methods
15:25 - 15:40	Jayapradha J (SRM Institute of Science and Technology & Kattankulathur, India); Su Cheng Haw, Naveen Palanichamy and Elham Anaam (Multimedia University, Malaysia)	A comprehensive review on cancer detection and classification using medical images by Machine Learning and Deep Learning models
15:40 - 15:55	Hui Chen, Tee Connie and Goh Kah Ong Michael (Multimedia University, Malaysia); Nor Izzati Saedon (Universiti Malaya, Malaysia)	A Non-Invasive Gait-Based Screening Approach for Parkinson's Disease

**Day 2: Wednesday, 24 July 2024**

**CITIC - ROOM 6**

**Microsoft Teams Link: [Enter Room 6](#)  
(Meeting ID: 449 089 067 63 Passcode: KpbKzF)**

**Session 2: 14:40 - 17:15 (UTC +8)**

**Session Chair:**

**Track Artificial Intelligence & Machine Learning**

Schedule	Authors	Paper Title
14:40 - 14:55	Ahmad Zarif Salleh (Multimedia University, Malaysia); Ian Chai (Multimedia University, Malaysia)	Utilising Document Classification as an Application of Data Mining a Personal Computer
14:55 - 15:10	Mahmoud Ibrahim Jalambo, Dr (Lecturer in Al-Azhar University in Gaza & Al-Azhar, Palestine)	Spine Tumor Segmentation Using Deep Learning: A Review
15:10 - 15:25	Theng-Jia Law, Choo-Yee Ting, Hu Ng, Goh Hui-Ngo and Albert Quek (Multimedia University, Malaysia)	A Review of Graduate on Time Prediction
15:25 - 15:40	Theng-Jia Law, Choo-Yee Ting, Hu Ng, Goh Hui-Ngo and Albert Quek (Multimedia University, Malaysia)	Detecting Graduate on Time during University Studies using Machine Learning
15:40 - 15:55	Joe Ming Tham and Zarina Che Embi (Multimedia University, Malaysia)	A Comprehensive Review on Image Captioning Technologies for the Visually Impaired

Day 3: Thursday, 25 July 2024

CITIC - ROOM 1

Microsoft Teams Link: [Enter Room 1](#)  
(Meeting ID: 466 124 194 760 Passcode: Dn3fWH)

Session 1: 10:00 - 12:50 (UTC +8)

Session Chair:

### Track Artificial Intelligence & Machine Learning

Schedule	Authors	Paper Title
10:00 - 10:15	Agatha Lau and Chi Wee Tan, Ts. (Tunku Abdul Rahman University of Management and Technology (TAR UMT), Malaysia)	LongT5Rank: A Novel Integrated Hybrid Approach for Text Summarisation
10:15 - 10:30	Prabha Kumaresan, Fong Yee Lee, Naveen Palanichamy and Elham Anaam (Multimedia University, Malaysia)	Improving Human Pose Estimation with Integrated Dual Self-Attention Mechanism in High-Resolution Network
10:30 - 10:45	Cui Ling Goo, Meng-Chew Leow and Lee-Yeng Ong (Multimedia University, Malaysia)	Analysing Course Selection by MBTI Personality Types
10:45 - 11:00	Md Rakibul Hasan, Goh Hui-Ngo, Choo-Yee Ting and Albert Quek (Multimedia University, Malaysia); Radiah Haque (MMU, Malaysia)	Methods and Challenges in Job Recommendation Systems: A Review
11:00 - 11:15	Dahiru Adamu Aliyu (Universiti Teknologi PETRONAS, Malaysia); Emelia Akashah Patah Akhir (Universiti Teknologi Petronas, Malaysia); Nurul Aida Bt Osman and Saidu Yahaya (Universiti Teknologi PETRONAS, Malaysia); Shamsuddeen Adamu (Universiti Teknologi Petronas, Malaysia); Hussaini Mamman (Universiti Teknologi Petronas & Abubakar Tafawa Balewa University, Bauchi, Malaysia)	A Conceptual Framework for Personalized Early Prediction of Asthma Exacerbation Attacks Using Proximal Policy Optimization
11:15 - 11:30	Fong Yee Lee, Prabha Kumaresan and Elham Anaam (Multimedia University, Malaysia); Chee Kong Wong (Taylor's College, Malaysia)	Social Platforms in the Deepfake Age: Navigating Media Trust Through Media Literacy
11:30 - 11:45	Lovesh Anand A Kumerswaran (FCI, Malaysia); Goh Hui-	Identifying Fraud Sellers in E-Commerce Platform



	Ngo, Choo-Yee Ting and Albert Quek (Multimedia University, Malaysia)	
11:45 – 12:00	Ming-Wee Foo and Su Cheng Haw (Multimedia University, Malaysia); Nur Erlida Ruslan (Multimedia University, Cyberjaya, Malaysia); Lucia D. Krisnawati (Universitas Kristen Duta Wacana, Indonesia)	Product Recommender System Based on Visually Similarity
12:00 – 12:15	Nur Irdina Sofea Mohd Mahadir, Yoon-Teck Bau and Lee Kian Chin (Multimedia University, Malaysia)	Movie Recommendation Using Machine Learning Techniques: Comparing K-Nearest Neighbours and Singular Value Decomposition
12:15 – 12:30	Siti Hazyanti Mohd Hashim (Universiti Sains Malaysia (USM), Malaysia)	Corrosion Analysis Tool using Pencil Graphite Electrode Sensor with Machine Learning Algorithm
12:30 – 12:45	Foo Bao Ling, Choo-Yee Ting, Goh Hui-Ngo and Albert Quek (Multimedia University, Malaysia); Chin Leei Cham (MMU, Malaysia)	Dynamic Job Recommendation by Profiling Undergraduates Academic Performances

Day 3: Thursday, 25 July 2024

CITIC - ROOM 2

Microsoft Teams Link: [Enter Room 2](#)

(Meeting ID: 485 391 263 87 Passcode: XuHSqv)

Session 1: 10:00 - 12:50 (UTC +8)

Session Chair:

### Track Artificial Intelligence & Machine Learning

Schedule	Authors	Paper Title
10:00 - 10:15	Kenneth Meng Yong Wong, Ru Poh Tan, Kar Eun Hew, Yung Jun Yu and Qing Yap Er (Tunku Abdul Rahman University of Management and Technology (TAR UMT), Malaysia); Siew Mooi Lim (Tunku Abdul Rahman University of Management and Technology, Malaysia)	Data-Driven Approaches for Coffee Quality Enhancement and Sustainability
10:15 - 10:30	Nur Adlina Marini Binti Amir Suharman, Amy Lim Hui Lan and Goh Hui-Ngo (Multimedia University, Malaysia)	Sequence-to-Pattern Analysis for Predicting Buying Decisions on Imbalanced Clickstream Data
10:30 - 10:45	Md Najmul Hasan and Vik Tor Goh (Multimedia University, Malaysia); Sarina Mansor (MMU, Malaysia)	Image-based Detection and Classification of Poultry Diseases from Chicken Droppings in Open House Poultry Farms
10:45 - 11:00	Nor Hidayati Abdul Aziz and Ooi Jing Hao (Multimedia University, Malaysia)	Understanding Search Behavior in the Simulated Kalman Filter Algorithm
11:00 - 11:15	Nur Anis Nabila Binti Mohd Romzi, Su Cheng Haw and Wan Er Kong (Multimedia University, Malaysia); Heru Agus Santoso (Dian Nuswantoro University, Indonesia); Gee Kok Tong (Multimedia University, Malaysia)	Generative AI Recommender System in E-Commerce
11:15 - 11:30	Khoong Tai Wai (Tunku Abdul Rahman University of Management and Technology (TAR UMT), Malaysia); Xin Hui Tan and Bryan Man Kit Yee (Tunku Abdul Rahman University of Management and Technology, Malaysia); Jing Yong Yap (Tunku Abdul Rahman University of Management and Technology (TAR UMT), Malaysia); Ruo Qi Lee (Tunku	Comparison Vehicle Routing Optimization Algorithm: A Case of E-Grocery Delivery in Malaysia

	Abdul Rahman University of Management and Technology (TAR UMT), Malaysia & TAR UMT, Malaysia)	
11:30 – 11:45	Guan Sheng Wong and Goh Kah Ong Michael (Multimedia University, Malaysia)	A Comparative Study of YOLO Versions for Surround-View Parking Slot Detection
11:45 – 12:00	Kenneth Meng Yong Wong, Ru Poh Tan, Kar Eun Hew, Qing Yap Er, Yung Jun Yu, Roy Chong Perng Teh and Chi Wee Tan, Ts. (Tunku Abdul Rahman University of Management and Technology (TAR UMT), Malaysia); Wei Sheng Fong (Tunku Abdul Rahman University of Management and Technology, Malaysia)	Leveraging Machine Learning for Diabetes Risk Prediction: A Comparative Study
12:00 – 12:15	Muhammad Shahrul Zaim Ahmad, Nor Azlina Ab. Aziz, Heng Siong Lim and Anith Khairunnisa Ghazali (Multimedia University, Malaysia)	Datasets for Artificial Intelligence-based Spine Analysis: A Scoping Review
12:15 – 12:30	Faqihah Binti Zakir, Su Cheng Haw, Tong Ern Tai and Kok-Why Ng (Multimedia University, Malaysia)	Utilizing k-Nearest Neighbours (KNN) and Support Vector Machine (SVM) for Ticket Support System
12:30 – 12:45	Maw Maw, Su Cheng Haw and Kok-Why Ng (Multimedia University, Malaysia)	Perspectives of Defining Algorithmic Fairness in Customer-oriented Applications: A Systematic Literature Review

Day 3: Thursday, 25 July 2024

CITIC - ROOM 3

Microsoft Teams Link: [Enter Room 3](#)  
(Meeting ID: 450 917 050 205 Passcode: HU8Mhv)

Session 1: 10:00 – 12:50 (UTC +8)

Session Chair:

### Track Artificial Intelligence & Machine Learning

Schedule	Authors	Paper Title
10:00 – 10:15	Okorie E Agwu (Universiti Teknologi PETRONAS, Malaysia); Saad Alatefi and Ahmad Alkouh (College of Technological Studies, PAAET, Kuwait); Reda Azim (American University of Kurdistan, Iraq)	Artificial intelligence models for flowing bottomhole pressure estimation: state-of-the art and proposed future research directions
10:15 – 10:30	Yit Yin Wee and Zi Yin Kong (Multimedia University, Malaysia)	Optimizing Customer Churn Prediction in Telecom Sector: A Comparative Analysis of Machine Learning Approaches
10:30 – 10:45	Yap Peak Fei, Choo-Yee Ting and Hairul A. Abdul-Rashid (Multimedia University, Malaysia)	Optimising iCadet Assignment through User Profiling
10:45 – 11:00	Ranjani Tamil Chelvan, Naveen Palanichamy, Su Cheng Haw and Kok-Why Ng (Multimedia University, Malaysia); Subhashini Gopal (St Josephs Institute of Technology, India)	A comparative study of deep learning based segmentation and classification techniques for melanoma detection
11:00 – 11:15	Chih Zhen Lim, Choo-Yee Ting, Goh Hui-Ngo and Albert Quek (Multimedia University, Malaysia); Chin Leei Cham (MMU, Malaysia)	Look-Ahead Cryptocurrency Price Prediction Using Machine Learning
11:15 – 11:30	Naveen Palanichamy and Su Cheng Haw (Multimedia University, Malaysia); Revathi K (Dhanalakshmi College of Engineering, India); Kok-Why Ng and Suthent Tamilselvam (Multimedia University, Malaysia)	Emotion Recognition with Multi Physiological Signals: A Deep Learning Approach
11:30 – 11:45	Kenneth Meng Yong Wong, Yung Jun Yu, Ru Poh Tan and Kar Eun Hew (Tunku Abdul Rahman University of Management and Technology (TAR UMT), Malaysia); Siew Mooi Lim (Tunku Abdul Rahman University of	Optimising Online Retail: Uncovering Opportunities with Unsupervised Learning Techniques

	Management and Technology, Malaysia)	
11:45 – 12:00	Danial Anson and Su Cheng Haw (Multimedia University, Malaysia); Nur Erlida Ruslan (Multimedia University, Cyberjaya, Malaysia)	Implementing Computer Vision and Biometrics into User Authentication
12:00 – 12:15	Naveen Palanichamy, Nyaanaputhraan Prabakaran and Prabha Kumaresan (Multimedia University, Malaysia)	Comparative Study on Gold Price Prediction Using Machine Learning
12:15 – 12:30	Li Yoong Ooi and Choo-Yee Ting (Multimedia University, Malaysia); Helmi Zakariah and Eashvaren Chandar (Hayat Technologies Sdn Bhd, Malaysia)	Behavioural User Segmentation of App Users Based on Functionality Interaction Patterns
12:30 – 12:45	Mohamad Firdaus Bin Mat Saad (Multimedia University, Malaysia); Suhailah Fauzi (Lecturer, Malaysia); Widura Abd Kadir (UKM, Malaysia); Su Cheng Haw (Multimedia University, Malaysia)	Effective Use of Augmentation Reality to Enhance Understanding of Malacca Sultanate Relations with the Chinese Government: A Digital Pedagogical Approach for School-Based Teaching and Learning

Day 3: Thursday, 25 July 2024

CITIC - ROOM 4

Microsoft Teams Link: [Enter Room 4](#)  
(Meeting ID: 484 752 683 432 Passcode: ZsS8yD)

Session 1: 10:00 - 12:50 (UTC +8)

Session Chair:

### Track Artificial Intelligence & Machine Learning

Schedule	Authors	Paper Title
10:00 - 10:15	Enoch Chen Sheng Hii, Siew Mooi Lim, Seng Xian Loo, Sheng Kit Yeap and Ching Yee Tan (Tunku Abdul Rahman University of Management and Technology, Malaysia)	Clustering Analysis of Food Security, Waste and Loss: Malaysia Agricultural Insights
10:15 - 10:30	Liew Juinvei, Choo-Yee Ting, Goh Hui-Ngo and Albert Quek (Multimedia University, Malaysia); Chin Leei Cham (MMU, Malaysia)	Time Series Clustering using Machine Learning
10:30 - 10:45	Heng Peng Yong, Choo-Yee Ting and Goh Hui-Ngo (Multimedia University, Malaysia)	Multi-class Classification with Many Categories
10:45 - 11:00	Ting Le Lam, Choo-Yee Ting, Goh Hui-Ngo and Albert Quek (Multimedia University, Malaysia); Chin Leei Cham (MMU, Malaysia)	Optimal Auto-Trading Strategy for Cryptocurrency Using Machine Learning Approach
11:00 - 11:15	Naveen Palanichamy, Su Cheng Haw and Kok-Why Ng (Multimedia University, Malaysia); Revathi K (Dhanalakshmi College of Engineering, India); Lingkeswari Ponnusamy (Multimedia University, Malaysia)	Performance evaluation of Machine learning models for Emotion Recognition
11:15 - 11:30	Ayat Al-Khulaqi, Naveen Palanichamy and Su Cheng Haw (Multimedia University, Malaysia); Charles Raja (Thiagarajar College of Engineering, India)	Evaluating Machine Learning and Deep Learning Algorithms for Predictive Maintenance of Hydraulic Systems
11:30 - 11:45	You-Shyang Chen and Yi-Xuan Chen (National Chin-Yi University of Technology, Taiwan)	A time series-based computing research on identifying COVID-19 data
11:45 - 12:00	Xin Yi Tan, Siew Mooi Lim and Tong Ming Lim (Tunku Abdul Rahman University of Management and Technology, Malaysia); Chi Wee Tan,	Predicting Lead Conversions: Evaluation of a Random Forest Model

	Ts. (Tunku Abdul Rahman University of Management and Technology (TAR UMT), Malaysia); Noor Aida Husaini (Tunku Abdul Rahman University of Management and Technology, Malaysia)	
12:00 – 12:15	Revathi K (Dhanalakshmi College of Engineering, India); Naveen Palanichamy, Su Cheng Haw and Kok-Why Ng (Multimedia University, Malaysia)	Adaptive Deep Convolution Neural Network for Early Diagnosis of Autism through Combining Personal Characteristic with Eye Tracking Path Imaging
12:15 – 12:30	Said Elnaffar (Canadian University Dubai, United Arab Emirates); Mohamed Fawey (Arab Academy for Science, Technology and Maritime Transport, Egypt)	Uncovering the Most Effective Pedagogical Techniques for Math Education Using Machine Learning
12:30 – 12:45	Tay Xue Hao (Intel, Malaysia); Siew Mooi Lim (Tunku Abdul Rahman University of Management and Technology, Malaysia)	Deep Reinforcement Learning in Cryptocurrency Trading: A Profitable Approach