



International Conference
on Intelligent and Interactive Computing

2021

9 September 2021

Universiti Teknikal Malaysia Melaka (UTeM)



Conference Tentative Program IIC2021

THURSDAY 9 SEPTEMBER 2021		
Time (MYT)	Program	Place
8.00 am - 8.30 am	Registration	Webex- Main Hall
8.20 am -8.30 am	Lagu Negaraku and UTeM Terbilang	Webex- Main Hall
8.30 am -8.45 am	Welcome Message-Program Chair	Webex- Main Hall
8.45 am -9.00 am	Opening By FTMK Dean	Webex- Main Hall
9.00 am – 10.00 am	Keynote Speech 1	Webex- Main Hall
10.00 am -10.10 am	Mini Break	
10.10 am - 11.10 am	Keynote Speech 2	Webex- Main Hall
11.10 am - 11.30 am	Mini Break Breakout Room Transition	
11.30 am - 4.00 pm	Parallel Session <ul style="list-style-type: none"> • Hall 1: Computational Intelligence • Hall 2: Computational Intelligence • Hall 3: Data Analytics • Hall 4: Robotics & Automation • Hall 5: Multimedia & Immersive Technologies • Hall 6: Education 4.0 • Hall 7: Others 	Webex- Breakout Session
4.00 pm – 5.30 pm	<ul style="list-style-type: none"> • Closing Speech-General Chair • Best Paper Award Announcement • Photography session 	Webex- Main Hall

IIC2021 Parallel Session Schedule

9 SEPTEMBER, THURSDAY – Hall 1: COMPUTATIONAL INTELLIGENCE	
Chair: <ul style="list-style-type: none">• PM Ts. Dr. Choo Yun Huoy• Ts. Dr. Zeratul Izzah Binti Mohd Yusoh	
11.30 am - 11.50 am	Automatic Text Summarization for Multiple Scientific Indonesian Journal Article using Bellman-Ford Algorithm. Muhammad Fakhri Muharram, Cecep Nurul Alam, Dian Sa'adillah Maylawati, Wildan Budiawan Zulfikar, Nur Lukman, Muhammad Ali Ramdhani
11.50 am - 12.10 pm	Text Classification for Final Year Project Abstract Using Machine Learning Techniques. Tea See Nai, Halizah Basiron, Yogan J Kumar
12.10 pm - 12.30 pm	Comparison Study Between Attack Graph Path Based Metrics. Zaid J Ala-Araji, Sharifah Sakinah Syed Ahmad, Raihana Syahirah Abdullah
12.30 pm - 12.50 pm	Detection using Convolution Neural Network (CNN) for Plant Disease Identification in Tomato, Potato and Bell Pepper Rheshwan Raj Ravichandran, Norzihani Yusof, Nuzulha Khilwani Ibrahim
12.50 pm - 1.10 pm	Automated Plant Leaves Recognition Using Convolutional Neural Network Paveetheran Thinagaran, Muhammad Naim Syahmi Roslan, Previna Munuganan, Nur Izzati Shafie, Fauziah Kasmin, Sharifah Sakinah Syed Ahmad, Zuraini Othman
1.10 pm - 1.30 pm	Images Recognition using Convolution Neural Network (CNN) with Calories Calibration: Experiments for Fruits and Vegetables. Nur Alis Sophia Suhaimi, Nuzulha Khilwani Ibrahim, Norzihani Yusof, Muhammad Naim Syahmi Roslan, Abdul Samad Hasan Basari, Mohd Hakimi Aiman

9 SEPTEMBER, THURSDAY – Hall 2: COMPUTATIONAL INTELLIGENCE	
Chair:	
<ul style="list-style-type: none"> • Prof. Ts. Dr. Goh Ong Sing • Prof. Ts. Dr. Burhanuddin Bin Mohd Aboobaider 	
11.30 am - 11.50 am	<p>A New Binary WOA-BAT Feature Selection Approach for Amphetamine-type Stimulants Drug Classification.</p> <p>Norfadzlia Mohd Yusof, Azah Kamilah binti Draman @ Muda, Satrya Fajri Pratama</p>
11.50 am - 12.10 pm	<p>Preliminary Study: Graphology-based Prediction Model for Learning Style Assessment in Primary Schools.</p> <p>Noor Fazilla Abd Yusof, Nur Zareen Zulkarnain, Sharifah Sakinah Syed Ahmad, Azura Hanim Hashim</p>
12.10 pm - 12.30 pm	<p>MySLRS: Malaysian Sign Language Recognition System</p> <p>Zeratul Izzah Mohd Yusoh, Wong Wei Keng, Vishwareeta Vanoo, Zaiti Akta Zaharuddin, Muhammad Nabil Imran Solehan</p>
12.30 pm – 12.50 pm	<p>A Comparative Analysis of Emotion Detection with Deblurring Algorithms using MPRNet and DeblurGAN</p> <p>Muhammad Naim Syahmi Roslan, Nuzulha Khilwani Ibrahim, Norzihani Yusof, Nur Alis Sophia Suhaimi</p>
12.50 pm – 1.10 pm	<p>Application of Deep Convolution Neural Network in Semiconductor Post Wire Bond Quality Inspection</p> <p>Mok Fock Lin, Ngo Chen Bang, Chua Kian Hua</p>
1.10 pm - 1.30 pm	<p>A Generic Framework of Agent-based Water Distribution System Architecture with Physical Fault using Cellular Automata Sequence</p> <p>Nurul Hannah Mohd Yusof, Nurul Adilla Mohd Subha, Fatimah Sham Ismail, Norikhwan Hamzah, Mohd Ariffanan Mohd Basri, Mohamad Amir Shamsudin, Norjulia Mohamad Nordin</p>

9 SEPTEMBER, THURSDAY – Hall 3: DATA ANALYTICS	
Chair:	
<ul style="list-style-type: none"> • PM Gs. Dr. Asmala Bin Ahmad • Ts. Dr. Ngo Hea Choon 	
11.30 am - 11.50 am	Data Enhancement Technology on Deepfake Dataset Dafeng Gong, Yogan J Kumar, Ong Sing Goh, Zi Ye, Wanle Chi
11.50 am - 12.10 pm	Classification of Arrhythmia Using Neural Networks Zahriah Sahri, Amirah Nabilah Razali, Fauziah Kasmin, Zuraini Othman, Halizah Basiron
12.10 pm - 12.30 pm	The Impact of GHGs Emissions by Sectors on Climate Change in Malaysia Anis Farhani, Norasilah Latiff, Sharifah Sakinah Syed Ahmad, Zuraini Othman, Nur Hajah Zamah Shari
12.30 pm - 12.50 pm	Sentiment Analysis Dashboard Using Twitter Data in Power BI Darshen Sivananda, Siti Azirah Asmai, Zaheera Zainal Abidin, Abal Abas Zuraida, Sabrina Ahmad
12.50 pm - 1.10 pm	Deep Learning Based Prediction Model for Crude Palm Oil Prices using News Sentiment Analysis Kasturi Kanchymalay, Krishnan Ramesh, Raja Rina, U.R. Hashim
1.10 pm – 2.00 pm	Break
2.00 pm - 2.20 pm	Depression Detection in Single Tweets Using Content-Based Features Nur Zareen Zulkarnain, Halizah Basiron, Norida Abdullah
2.20 pm - 2.40 pm	Predicting Dengue Spread based on Climate Data using Machine Learning Mohd Zairi Abd Ghani, Anisah Kamsin, Jeya Jassvine Jeyabala Sundram, Charae Eh Sin, Sharifah Sakinah Syed Ahmad
2.40 pm - 3.00 pm	Tools for Big Data and Analytics Lee Qi Zian, Yogan J Kumar, Nur Zareen Zulkarnain
3.00 pm - 3.20 pm	Designing User-Centric Visualization Dashboard for Online Food Market Marlina Abdul Manaf, Mohd Zahirudin Mohammed Na'aim

9 SEPTEMBER, THURSDAY – HALL 4: ROBOTICS & AUTOMATION	
Chair:	
<ul style="list-style-type: none"> • Ts. Dr. Sazalinsyah Bin Razali • Ts. Dr. Abdul Syukor Bin Mohamad Jaya 	
11.30 am - 11.50 am	Research on Upgrading of Traditional Industry Driven by Intelligent Manufacturing Zi Ye, Yogan J Kumar, Ong Sing Goh, Dafeng Gong
11.50 am - 12.10 pm	Design of a Low Cost Pipe Crawler Inspection Robot Using Educational Approach M. Z. A Rashid, Fitri Yakub, Zaki, S.A., K E Manan, M A Ahmad M. A Azmi, D.T.M Han, M.S.I Zainal, J.Nadarajan
12.10 pm - 12.30 pm	IoT Motorcycle Tracking System Erman Hamid, Muhammad Fikri Muhammad Fadhil, Norharyati Harum, Nazrulazhar Bahaman
12.30 pm - 12.50 pm	Designing LoRa End Device and LoRa Gateway of Data Transmission for IoT Application Norharyati Harum, Nurul Anita Sitam, Erman Hamid, Mohd Fairuz Iskandar Othman
12.50 pm - 1.10 pm	Smart Attendance System to Prevent COVID-19 Pandemic Nurul Afifah Ahmad Mahin, Norharyati Harum, Erman Hamid, Nurul Azma Zakaria
1.10 pm – 2.00 pm	Break
2.00 pm - 2.20 pm	Development Process of Automotive Climate Control System based on Thermal Comfort Mohd Azmiza Ahmad, Fitri Yakub, K W Kadir, Nor' Azizi Othman, M. Z. A Rashid, K E Manan
2.20 pm - 2.40 pm	The Development of A Client-centric Parcel Delivery Route Planning Solution Teoh Kah Lun, Sow Chen Wei, Yun Huoy Choo, Nur Zareen Zulkarnain
2.40 pm - 3.00 pm	IoT Patrolling Robot Pavithira Vasu, Khadijah Wan Mohd Ghazali, Nurul Azma Zakaria, Haniza Nahar, Irda Roslan, Marliza Ramly
3.00 pm - 3.20 pm	Alert System for Child in Car Using NodeMCU Dawiyanti Asben, Irda Roslan, Nurul Azma Zakaria, Haniza Nahar, Marliza Ramly, Khadijah Wan Mohd Ghazali

9 SEPTEMBER, THURSDAY – HALL 5: MULTIMEDIA & IMMERSIVE TECHNOLOGIES	
Chair: <ul style="list-style-type: none">• Ts. Dr. Ibrahim Bin Ahmad• Ts. Dr. Muhammad Haziq Lim Bin Abdullah	
11.30 am - 11.50 am	The Needs of Persuasive Interaction in Home Network Management Tools – A Position Paper Erman Hamid, Norharyati Harum, Syarulnaziah Anawar, Zakiah Ayop
11.50 am - 12.10 pm	The Study on the Current Augmented Reality Applications for Chemistry Subject to Evaluate the Effectiveness of AR Using Heuristic Evaluation Nur Safura Mohd Rafee, Norazlin Mohammed
12.10 pm - 12.30 pm	Animation Development for Tourism: Replication of Studio Ghibli's Technique Nurul Nazurah Mohamad Kamaruddin, Farah Nadia Azman
12.30 pm - 12.50 pm	Application of Shadow Play Character Visual Representation in 2D Platformer Game Mohamad Suhail Mohd Rasid, Farah Nadia Azman

9 SEPTEMBER, THURSDAY – HALL 6: EDUCATION 4.0	
Chair: <ul style="list-style-type: none">• PM Ts. Dr. Norasiken Binti Bakar• Ts. Dr. Sek Yong Wee	
11.30 am - 11.50 am	Students' Perspectives on Abrupt Adoption of Online Learning Asmida Ismail, Shamsul Anuar Shamsudin

9 SEPTEMBER, THURSDAY – HALL 7: OTHERS	
Chair: <ul style="list-style-type: none">• Dr. Zahriah Binti Sahri• PM Dr. Zuraida Binti Abal Abas	
11.30 am - 11.50 am	Analysis of Exercise Habits During Covid-19 Pandemic Using Octalysis Gamification Framework Fitri Marisa, Sharifah Sakinah Syed Ahmad, Zeratul Izzah Mohd Yusoh, Anastasia L Maukar
11.50 am - 12.10 pm	IoT System Design using Voice Recognition Technique for Door Access Control System Nor Munira Syafiqa Md. Zaini, Nurul Azma Zakaria, Irda Roslan, Haniza Nahar, Khadijah Wan Mohd Ghazali, Norharyati Harum
12.10 pm - 12.30 pm	A Real-Time Waste Management based on IoT Muhammad Izzat Syakir, Haniza Nahar, Irda Roslan, Khadijah Wan Md Ghazali, Nurul Azma Zakaria, Marliza Ramly