



Computational Intelligence in Information Systems Conference (CIIS 2022)

Virtual Conference

Theme: Intelligent and Resilient Digital Innovations for Sustainable Living

Programme

17-19 October 2022

Day 1: Monday 17 October 2022	
08:00 onwards	Assessment of Poster Exhibition
08:00 – 09:00	Registration & Networking
9:00 – 12.30	Workshop Sessions – MATLAB
	Lunch Break
14:00 – 16:00	Sharing Sessions – IBM

Day 2: Tuesday 18 October 2022	
08:00 – 09:00	Registration & Networking
09:00 – 09:30	CIIS 2022 Opening ceremony
09:40 – 10:40	Keynote Speaker 1 Presentation <i>(Chair by Dr Hj Sharul Tazrajiman bin Hj Tajuddin)</i>
10:40 – 11:40	Keynote Speaker 2 Presentation <i>(Chair by Dr Ravi Kumar Patchmuthu)</i>
11:40 – 12:00	AUN-SEED Promotional Session
	Lunch Break
13:30 – 14:15	Invited Speaker 1 Presentation <i>(Chair by Serina Binti Mohd. Ali)</i>
14:20 – 15:50	Parallel Sessions 1
	- Data Science for Health and Well-Being <i>(Chair by Serina Binti Mohd. Ali)</i>
	- Information Systems <i>(Chair by Dr Ibrahim Venkat @ Krishnamurthy Venkatasubramanian)</i>
15:50 – 16:00	Refreshment Break
16:00 – 17:00	Parallel Sessions 2
	- Intelligent Systems <i>(Chair by Dr Ibrahim Venkat @ Krishnamurthy Venkatasubramanian)</i>

Day 3: Wednesday 19 October 2022	
8:00 – 8:30	Registration
8:30 – 09:15	Invited Speaker 2 Presentation <i>(Chair by Dr S H Shah Newaz)</i>
09:20 – 11:50	Parallel Sessions 3
	- Intelligent Applications in Agriculture <i>(Chair by Dr Arif Bramantoro)</i>
	- Creative Computing <i>(Chair by Dr Ahmed M S Elaklouk)</i>
	Lunch Break
14:00 – 16:00	Forum <i>(Moderate by Dr Wida Susanty binti Haji Suhaili)</i>
16:05 – 16:30	CIIS 2022 Prize Presentation and Closing ceremony

Day 2: (18th October 2022)

Keynote Speaker 1: (9:40 – 10.40)

Virtual Citizen for Border Crossing Control

Professor. Dr Abdullah GANI

Keynote Speaker 2: (10.40 – 11:40)

Dataset issues in applying deep learning to robotics

Professor Miura Jun

Invited Speaker 1: (1:30 – 2:15)

Security and Privacy in Cloud-Based E-Health System

Prof. Ts. Dr. Zuriati Ahmad Zukarnain

Parallel Session 1 (14:20 – 15:50)

Data Science for Health and Well-Being

Survey on Online Learning During COVID-19

Saiful Omar, Datin Paduka Zohrah Sulaiman and Noor Maya Salleh.

Understanding the Effects of COVID-19 Pandemic on Brunei Students Learning Activities: A Data Analytics Approach

Siti Salihah Siti Nabilah Binti Sahari, D S Sankar, S H Shah Newaz and K K Viswanathan.

Health Benefits of Active Physical Exercises by Bruneians: A Data Analytics Approach

Lai Chee Chiang, D S Sankar, Siti Mazulianawati Binti Haji Majid and K K Viswanathan.

Cardiovascular Disease Risk Prediction using Machine Learning

Md Najibudin Hakiim Hj Md Midun, Mohammad Saiful Hj Omar and Arif Bramantoro.

Information Systems

Public Opinion on Electric Vehicle Public Transportation in Brunei Darussalam

Abdul Hadi Isa, Dina Shona Laila, Muhammad Norfauzi Dani, Sheik Mohammed Sulthan, and Tan Soon Jiann

Linking Big Data and Total Quality Management: A Proposed Theoretical Research Framework of Digital Maturity Mediation

Zahidah Ismail and Shahid Anjum

Understanding External Factors affecting Expansion: A Proposed Framework for Internationalising MSMEs in Factor-Driven and Efficiency-Driven Economies

Mohammad Izzuddin Mohammad Jamil and Mohammad Nabil Almunawar

Residual Stress Measurement in Thin Films Using ANSYS Approach

Anitha Dhanasekaran, Anbukarasi K, Yathavan Subramanian, Lukman Ahmed Omeiza, Veena Raj, Hayati Y, Avinash Kumar and Abul K Azad.

Parallel Session 2 (16:00 – 17:00)

Intelligent Systems

Kalman Filter for RSSI-based Indoor Positioning System with Min-Max Technique

Muhammad Hilmi Dwiputranto, Dwi Joko Suroso and Nur Abdillah Siddiq.

Implementation of Wi-Fi-based Indoor Positioning System: Challenges and Future Possibilities

Dwi Joko Suroso, Farid Yuli Martin Adiyatma, Panarat Cherntanomwong and Pitikhate Sooraksa.

Bankruptcy Prediction for Imbalanced Dataset Using Oversampling and Ensemble Machine Learning Methods.

Abdullahi Chowdhury, Shahriar Kaiser and Ranesh Naha.

Blockchain Technology in Securing Academic Credentials: Mobile QR Block CV

Vincent Kok Seng Lew, Thien Wan Au, Ibrahim Venkat, Ravi Kumar Pachmuthu and Serina Mohd Ali.

Day 3 (19th October 2022)

Invited Speaker 3: (8:30 – 9:15)

Machine learning in cyber-security application

Professor Joarder Kamruzzaman

Parallel Session 3 (9:20 – 11:50)

Intelligent Applications in Agriculture

Machine Learning and Internet of Things for Fertiliser Prediction - Pepper Vines

Anding Nyuak, Edwin Mit and Kedung Fletcher.

Banana Fruit Classification Using Computer Vision - Camera Ready Paper

Noraisyah Mohamed Shah, Felice Maynelia Makain and Norrima Mokhtar.

Classification of Oyster Mushroom Diseases in Brunei

Dk Azreen Pg Hj Tajudin, Dr. Ravi Kumar Patchmuthu and Dayang Serina Mohd Ali.

Analysis of Export and Import for Aquaculture Products in Brunei

Arif Bramantoro, Nor Zainah Siau and Wida Susanty Haji Suhaili.

Prediction Model for Marine Shrimp Production in Brunei Darussalam

Nor Zainah Siau, Mohammad Najwan Muhammad Azri, Arif Bramantoro and Wida Susanty Haji Suhaili.

Photonic Crystal Fibre Sensor for Unhealthy Food Additive

Abdul Mu'iz Maida, Erma Suryani and Feroza Begum.

Creative Computing

Transcending the Metaverse and the Metaphygit: An Early Review and Trial of Metaverse Technologies

Pengiran Shaiffadzillah Pengiran Omarali.

Students' Satisfaction Levels of an Immersive Extended Reality for Engine Assembly Tasks in Engineering Empirical Education

Lai Lai Win, Faieza Abdul Aziz, Abdul Aziz Hairuddin, Lili Nurliyana Abdullah, Hwa Jen Yap, Hideo Saito and Norhisham Seyajah.

Automated Lip-Sync Framework for Video Game

Hazim Adfarid Maz Adanan, Idham Mashud and Somnuk Phon-Amnuaisuk.

An Educator-Oriented Method for Designing Serious Role- Playing Games: An Initial Exploration

Azhan Ahmad, Effie Lai-Chong Law and Kok Yueh Lee.

Investigation on the Impact of Cognitive Computer Game on Memory Recall

Nurwathiqah Ali, Sharul Tajuddin and Ibrahim Edris.

Investigating Designers' Choices of Typeface Selection in Graphic Design through Situation Approach

Siew Leing Woo and Sharul Tajuddin.