



The 5<sup>th</sup> International Multi-Conference  
on Artificial Intelligence Technology  
4-5 AUGUST  
VIRTUAL CONFERENCE

Theme : Artificial Intelligence in the 4<sup>th</sup> Industrial Revolution

# PROGRAMME BOOK



The 5<sup>th</sup> International Multi-Conference  
on Artificial Intelligence Technology  
4 - 5 AUGUST

VIRTUAL CONFERENCE

## **MCAIT OPENING CEREMONY**

**4<sup>th</sup> AUGUST 2021**

- 900 *Registrations*
- 920 *The Master of ceremony starts the events*
- 923 *Negaraku*
- 925 *Varsiti Kita*
- 927 *Du'a recitations by Mr Najmuldeen Abed Hashim*
- 930 *Welcoming speech by MCAIT Conference Chair, Prof. Dr Masri Ayob*
- 935 *The Officiation of MCAIT event by Prof. Dr Jamia Azdina Jamal, Director of IDEA Center, UKM*
- 940 *Introducing the keynote speakers*
- 945 *Announcing the Best Paper winners*
- 950 *Moving to parallel sessions*

*\* All time used here is MYT*



## Day 1 Track 1

4<sup>th</sup> AUGUST 2021

TIME	Paper ID	Authors	Title	Affiliation
1000	2	Mansur Aliyu, Abubakar S. Baiti, Abubakar Bello Tambuwal, Samaila Musa and Aminu Aliyu	Cybersecurity Threats and Practices in Internet Cafe: An Assessment of Cyber Cafe in Sokoto and Kebbi States	SOKOTO STATE UNIVERSITY, ASB COMPUTER SERVICES, KEBBI; UMARU ALI SHINKAFI POLYTECHNIC SOKOTO, FEDERAL UNIVERSITY GUSAU, NIGERIA
1020	54	Norizal Abdullah, Masri Ayob and Raja Nur Natasha Raja Ahmad Anuar	Anaesthetist Rostering Mobile Application for Hospital Canselor Tuanku Muhriz	UNIVERSITI KEBANGSAAN MALAYSIA
1040	6	Suhaila Zainudin and Dzulhusni Anjang Ab. Rahmanb	Analisa Corak Kunjungan Pesakit Luar Di Klinik Kerajaan Terpilih Negeri Selangor	UNIVERSITI KEBANGSAAN MALAYSIA and MINISTRY OF EDUCATION, MALAYSIA
1100	10	Azwanis Abdosamad and Nor Samsiah Sani	House Price Prediction in Selangor Using Machine Learning Algorithm	UNIVERSITI KEBANGSAAN MALAYSIA
1120	47	Hasmila Amirah Omar, Shahnorbanun Sahran, Nor Samsiah Sani and Azizi Abdullah	Job Scheduling Performance Issues and Solutions of Big Data Applications in Apache Spark : A review	UNIVERSITI KEBANGSAAN MALAYSIA

## Day 1 Track 2

**4<sup>th</sup> AUGUST 2021**

TIME	Paper ID	Authors	Title	affiliation
1000	51	Mohd Syazwan Md Yid, Rosmina Jaafar and Seri Mastura Mustaza.	Descriptive Statistics of Length of Stay in Hospital Wards: A Case Study at HCTM	UNIVERSITI KEBANGSAAN MALAYSIA
1020	19	Prima Denny Sentia, Syaimak Abdul Shukor, Amelia Natasya Abdul Wahab and Muriati Mukhtar	The Role of IT and IS in Improving Humanitarian Supply Chain Management	UNIVERSITI KEBANGSAAN MALAYSIA dan UNIVERSITAS SYIAH KUALA, INDONESIA
1040	22	Syahrul , Mochamad Fajar Wicaksono and M. Rinaldi Hasanudin	RFID-based Payment System Using e-Ktp in Shop with Membership System	UNIVERSITAS KOMPUTER INDONESIA
1100	25	Novrini Hasti and Sekar R Graitasadu	Web Based Information System Of Test of English as a Foreign Language (TOEFL)	UNIVERSITAS KOMPUTER INDONESIA
1120	38	Hidayat and Afrizal Imanullah	Design of Halal Certification Status Checker Application System using QR-Code	UNIVERSITAS KOMPUTER INDONESIA

**Day 1 Track 3**

**4<sup>th</sup> AUGUST 2021**

<b>TIME</b>	<b>Paper ID</b>	<b>Authors</b>	<b>Title</b>	<b>affiliation</b>
1000	39	Masri Ayob and Dewan Mahmuda Zaman	Scheduling Strategies for Operating Room Surgical Scheduling Problems	UNIVERSITI KEBANGSAAN MALAYSIA
1020	44	Kauthar Mohd Daud, Zalmiyah Zakaria and Zuraini Ali Shah.	Improving production rate and growth rate of mutants: A comparison of constraint-based modeling approaches	UNIVERSITI KEBANGSAAN MALAYSIA and UNIVERSITI TEKNOLOGI MALAYSIA
1040	49	Norfazlina Jaffar, Afzan Adam and Alwi Mohamed Yunus	Pembangunan Model Ramalan Tahap Risiko Pesakit Pembedahan Jantung Terbuka Menggunakan Pendekatan Pembelajaran Mesin	UNIVERSITI KEBANGSAAN MALAYSIA and INSTITUT JANTUNG NEGARA
1100	53	Norizal Abdullah, Masri Ayob and Nurul Camelia Murad	Anaesthetist Rostering Web Application for Hospital Canselor Tuanku Muhriz	UNIVERSITI KEBANGSAAN MALAYSIA
1120	32	Norizal Abdullah, Masri Ayob, Meng Chun Lam and Nasser R. Sabar	Issues in Surgical Scheduling Problem: Uncertainty, Capacity Planning, Request and Demand	UNIVERSITI KEBANGSAAN MALAYSIA and LA TROBE UNIVERSITY (MELBOURNE)



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

# Keynote Speaker: Prof. Dr. Rose Alida Alias

## A Global Landscape of National Artificial Intelligence Strategies

**11:45** (GMT+8)

**4<sup>th</sup> August 2021**

**The main hall**

## Day 1 Track 1

4<sup>th</sup> AUGUST 2021

TIME	Paper ID	Authors	Title	affiliation
1400	36	Xinyue Wang, Mohd Nor Akmal Khalid and Hiroyuki Iida	Entertainment analysis of animation based on GR theory	JAPAN ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY
1420	35	Sagguneswaraan Thavamuni, Muhammad Nazhif Rizani, Mohd Nor Akmal Khalid and Hiroyuki Iida	Significance of Player Elimination in Battle Royale Games Popularity	JAPAN ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY
1440	40	Naying Gao, Mohd Nor Akmal Khalid and Hiroyuki Iida	Analysis of Professional Basketball League via Motion in Mind	JAPAN ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY
1500	45	Ghassan Jasim Mohamed, Khairunnisa Ahmad Shahrim, Mehak Rabail and Abdul Hadi Abd Rahman	Multi-points Navigation for Autonomous Robot in Duct Environment	UNIVERSITI KEBANGSAAN MALAYSIA



**Day 1 Track 2**

**4<sup>th</sup> AUGUST 2021**

TIME	Paper ID	Authors	Title	affiliation
1400	1	Jih Soong Tan and Ian K. T. Tan	Investigating Feature Relevance for Essay Scoring	PRIORITY DYNAMICS SDN. BHD. and MONASH UNIVERSITY, MALAYSIA
1420	8	Ridha Hussein Chassab, Lailatul Qadri Zakaria and Sabrina Tiun	An Adjusted BERT Architecture for The Automatic Essay Scoring Task	UNIVERSITI KEBANGSAAN MALAYSIA
1440	9	Siti Noor Allia Noor Ariffin and Sabrina Tiun	Informal Malay Language Twitter Corpus	UNIVERSITI KEBANGSAAN MALAYSIA
1500	33	Nor Samsiah Sani and Ahmad Fikri Mohamed Nafuri	A Student Performance Model Towards Student Performance Prediction	UNIVERSITI KEBANGSAAN MALAYSIA



**Day 1 Track 3**

**4<sup>th</sup> AUGUST 2021**

<b>TIME</b>	<b>Paper ID</b>	<b>Authors</b>	<b>Title</b>	<b>affiliation</b>
1400	26	R Fenny Syafariani and Rio Yunanto	Literature Review: Information Extraction using Named-Entity Recognition with Machine Learning Approach	UNIVERSITAS KOMPUTER INDONESIA
1420	31	Sakinah Othman and Azizi Abdullah	Principal Component Analysis Variant Initialization in Convolutional Neural Networks	UNIVERSITI KEBANGSAAN MALAYSIA
1440	7	Neeraj Tiwary, Shahrul Azman Mohd Noah and Steffen Staab	Explainable recommender – Implementation approaches	UNIVERSITI KEBANGSAAN MALAYSIA; WAIS, UNIVERSITY OF SOUTHAMPTON; Analytic Computing, UNIVERSITAT STUTT GART
1500	21	Yusuf Sunusi, Nazlia Omar and Lailatul Qadri Zakaria	Length-Controlled Abstractive Summarization Based on Summary Output Area Using Transfer Learning	UNIVERSITI KEBANGSAAN MALAYSIA



**Keynote Speaker: Prof. Dr. Azuraliza Abu Bakar**  
**Living Analytics: Leveraging Socio Economic Data for Nation Wellbeing**

**15:35 (MYT)**

**4<sup>th</sup> August 2021**

**The main hall**



**Keynote Speaker: Prof. Dr. Angelo Changelosi**  
**Developmental Robotics for Language Learning, Trust and Theory of Mind**

**16:15** (MYT)

**4<sup>th</sup> August 2021**

**The main hall**

**Day 2 Track 1**

**5<sup>th</sup> AUGUST 2021**

<b>TIME</b>	<b>Paper ID</b>	<b>Authors</b>	<b>Title</b>	<b>affiliation</b>
1000	57	Hafsah , Saidah Saad and Lailatul Qadri Zakari	Malay Named Entity Recognition: Trend and Challenges	UNIVERSITI KEBANGSAAN MALAYSIA
1020	41	Yuexian Gao , Chang Liu , Mohd Nor Akmal Khalid and Hiroyuki Lida	The Entertainment Appeal of Rhythm Games	JAPAN ADVANCED INSTITUT OF SCIENCE AND TECHNOLOGY
1040	14	Jee Yuan Goh, Afzan Adam and Zaid Alyasseri	Image Compression in Digital Pathology	UNIVERSITI KEBANGSAAN MALAYSIA
1100	5	Ahmad Fadhil Naswir, Lailatul Qadri Zakaria and Saidah Saad	Proposed Method on Phishing Email Classification using Behavior Features	UNIVERSITI KEBANGSAAN MALAYSIA



## Day 2 Track 2

5<sup>th</sup> AUGUST 2021

TIME	Paper ID	Authors	Title	affiliation
1000	42	Azrulhizam Shapi'l and Nor Aidatul Aini Ismail	DIGITAL GAME DESIGN USING NON-PROGRAMMING METHOD FOR PHYSICS EDUCATION	UNIVERSITI KEBANGSAAN MALAYSIA
1020	34	Azilawati Rozaimée, Nazlia Omar, Sabrina Tiun and Nur Sharmini Alexander	A Dictionary Based Approach for Malay Language Sentiment Lexicon Generation	UNIVERSITI KEBANGSAAN MALAYSIA
1040	37	Ali Al-Janabi, Lailatul Qadri Zakaria and Nazlia Omar	Analyzing Iraqi Dialects Unique Features for Dialect Identification	UNIVERSITI KEBANGSAAN MALAYSIA
1100	43	Mohd Zamri Murah	Security assessment for education websites in Saudi Arabia	UNIVERSITI KEBANGSAAN MALAYSIA
1120	48	Nur Atiqah Najibah Shamsudin and Nazatul Aini Abd Majid	Aplikasi Mudah Alih Augmentasi Realiti Pembelajaran Kimia Berasaskan Soalan	UNIVERSITI KEBANGSAAN MALAYSIA

## Day 2 Track 3

5<sup>th</sup> AUGUST 2021

TIME	Paper ID	Authors	Title	affiliation
1000	24	Omar F. Rashid	Text Encryption based on DNA Cryptography, RNA, and Amino Acid	AL-HIKMA UNIVERSITY COLLEGE, BAGHDAD
1020	28	Noor Ashikin Othman, Mohammad Khatim Hasan and Bahari Idrus	Pendiskritan Model Lotka-Volterra menggunakan Kaedah Berangka Tidak Piawai dengan Trimean	UNIVERSITI KEBANGSAAN MALAYSIA
1040	46	Mustafa Abdulkareem, Sabrina Tiun, Umi Asma Mokhtar and Masnizah Mohd	Preliminary Work On Bag-of-Requirement Representation for SMA Reviews	UNIVERSITI KEBANGSAAN MALAYSIA
1100	50	Yasir Hadi, Shahrul Azman Mohd and Masnizah Mohd	Towards on Comparing Conventional Query Expansion Approaches and Word Embedding-Based Approaches	UNIVERSITI KEBANGSAAN MALAYSIA
1120	56	Rosmamalmi Mat Nawi, Shahrul Azman Mohd Noah and Recommendation for Group of Users with LOD Lailatul Qadri Zakaria.		UNIVERSITI KEBANGSAAN MALAYSIA



**Keynote Speaker: Dr. Bassam Al-Salemi**  
**Text Analytics: Industrial Use Cases and Application**

**11:45 (MYT)**

**5<sup>th</sup> August 2021**

**The main hall**

**Day 2 Track 1**

**5<sup>th</sup> AUGUST 2021**

<b>TIME</b>	<b>Paper ID</b>	<b>Authors</b>	<b>Title</b>	<b>affiliation</b>
1400	12	Alya Nur Adlina Ahmad Nazri and Siti Nur Kamaliah Kamarudin	Analyzing Twitter Reviews on Halal Food using Sentiment Analysis	UNIVERSITI TEKNOLOGI MARA
1420	16	Angayar Kanni Ramaiah, Anupam Sanghi and Ningrum Natasya Sirait	Digital Market Governance and Challenges on Competition Law in Asia: Malaysia, India, and Indonesia	UNIVERSITI TEKNOLOGI MARA CAWANGAN PULAU PINANG; ANUPAM SANGHI & ASSOCIATES INDIA; UNIVERSITAS SUMATRA UTARA, MEDAN INDONESIA
1440	30	Syahrul Mauluddin, Marlina Budhiningtias Winanti, Dadang Munandar, Imelda Pangaribuan, Feisal Abdurrahman and Muhamad Chairil Akmal	Development of Down Syndrome Child Assessment Application Prototype	UNIVERSITAS KOMPUTER INDONESIA and UNIVERSITAS WANITA INTERNASIONAL



**Day 2 Track 2**

**5<sup>th</sup> AUGUST 2021**

<b>TIME</b>	<b>Paper ID</b>	<b>Authors</b>	<b>Title</b>	<b>affiliation</b>
1400	27	Lusi Melian and Rifki Taufiqurrahman	Application of Web-Based Information System in Product Distribution	UNIVERSITAS KOMPUTER INDONESIA
1420	52	Rosmina Jaafar and Nurul Izzati Kamdani.	A Web Based Early Warning Score Calculator and Data Logger for Patients Vital Signs Monitoring	UNIVERSITI KEBANGSAAN MALAYSIA
1440	18	A F M Saifuddin Saif and Zainal Rasyid Mahayuddin	Detection of Cancer Cell and Tumor from MRI Image Using A Hybrid Approach – A Conceptual Framework	AMERICAN INTERNATIONAL UNIVERSITY- BANGLADESH and UNIVERSITI KEBANGSAAN MALAYSIA

**Day 2 Track 3**

**5<sup>th</sup> AUGUST 2021**

TIME	Paper ID	Authors	Title	affiliation
1400	15	Shahab UI Hassan, Mohd Soperi Mohd Zahid and Khaleel Husain	Impact of Bidirectional LSTM Layer Variation on Cardiac Arrhythmia Detection Performance	Department of Computer and Information Sciences and Institute of Health and Analytics, UNIVERSITI TEKNOLOGI PETRONAS
1420	13	Talal Abdullah, Mohd Soperi Zahid and Khaleel Husainb	Machine Learning in Predicting Cardiovascular Diseases Using ECG Signal	Department of Computer and Information Sciences and Institute of Health and Analytics, UNIVERSITI TEKNOLOGI PETRONAS
1440	11	Rosila Rebo, Afzan Adam and Azlan Hussin	Prediction Model of InHospital Mortality After Percutaneous Coronary Intervention (PCI) Using Machine Learning Techniques	UNIVERSITI KEBANGSAAN MALAYSIA and INSTITUT JANTUNG NEGARA



**Keynote Speaker: Dr. Mohd. Ridzwan Yaakub**

**SA: A Walk Through Time from Opinion Mining to Sentiment Analysis**

**15:00**(MYT)

**5<sup>th</sup> August 2021**

**The main hall**



The  
University  
Of  
Sheffield.

## Keynote Speaker: Prof. Dr. Eleni Vasilaki

### Sparse Reservoir Computing

**15:50** (MYT)

**5<sup>th</sup> August 2021**

**The main hall**





WINNER!

Best Videos  
Best participant



**FAKULTI TEKNOLOGI  
& SAINS MAKLUMAT**



British  
High Commission  
Kuala Lumpur



Also with:

4<sup>th</sup> Asean Workshop on Information  
Science & Technology (AWIST2021)

