

**International Conference on
Information &
Communication Technology
for Muslim World (ICT4M)
2023**



PROGRAMME BOOK

ICT4M 2023

**"ICT FOR SUSTAINABLE DIGITAL IDENTITY
AND THE FUTURE OF SOCIAL GOOD"**

**KULIYYAH OF ICT, IIUM
GOMBAK CAMPUS,
MALAYSIA
15-16 AUGUST 2023**

ORGANISED BY:



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CONFERENCE OVERVIEW

International Conference on Information & Communication Technology for the Muslim World (ICT4M) is a conference that gathers academicians, researchers, practitioners, professionals, and students to address the challenges of Information and Communication Technology (ICT) within the Muslim world. ICT has been identified as a critical entity that is crucial and pervasive in our daily life for conducting relevant activities and tasks. The use of ICT can improve the effectiveness and productivity at workplaces and homes.

This year the theme is "ICT for Sustainable Digital Identity and the Future of Social Good". The aim is to forward the idea that the development and use of advanced technology should improve and sustain the better social and individual life of the Muslim. ICT must be seen as a strength that complements our role and responsibilities as leaders, professionals, workers, and students of Islam. Information is needed to effectively perform teaching, learning, and delivering Da'wah, and its practical implementation. Thus, ICT and its infrastructure should be considered as a factor in the equation of our duties in all aspects of life: in the organizations, schools, and mosques. The main Islamic principles should be taken as guidelines for laying the foundation of Islamic code of practice in ICT.

Areas of interest include, but are not limited to:

TRACK 1 Information and Communication Technology (ICT) & Islam

TRACK 2 Semantic Body of Knowledge & Technology

TRACK 3 Information System & Digital Humanities

TRACK 4 Artificial Intelligence, E-Learning and Human Computer Interaction

TRACK 5 Software Engineering, Blockchain & Cyber Security

ORGANIZING COMMITTEES

Advisor	Prof Dr Murni Mahmud Prof Dr Abd Rahman Ahlan
Chairman	Dr Mohd Izzuddin Mohd Tamrin
Secretary	Dr Dini Oktarina Dwi Handayani Sr Nurlaili Sanadi
Treasurer	Dr Marini Othman Sr Nurliyana Najwa Jamaludin
Publication	Prof Dr Akram MZM Khedher Assoc Prof Dr Amelia Ritahani Ismail Assoc Prof Dr Adamu Abubakar Ibrahim
Program Chair	Dr Rawad Abdulkhaleq Abdulmolla Abdulghafor Dr Noor Hayani Abd Rahim Br Lukman Hakim Sani
Track Chair	Prof Dr Asadullah Shah Prof Dr Mohamad Fauzan Noordin Prof Datin Dr Roslina Othman Prof Dr Mira Kartiwi Assoc Prof Dr Norsaremah Salleh Assoc Prof Dr Normi Sham Awang Abu Bakar Dr Noor Azura Zakaria Dr Nurul Nuha Abdul Molok

ORGANIZING COMMITTEES

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IT Support	Dr Abdul Rafiez Abdul Raziff Dr Nurazlin Zainal Azmi
Sponsorship	Dr Zainab Senan Mahmud Attar Bashi
Logistics	Hj Muhd Rosydi Muhammad Sr Narieta Bukhari
Refreshment	Sr Hasnita Ahmad Sr Narieta Bukhari
Registration & Souvenir	Sr Junaida Zainuddin Sr Zuyati Mohamed Sr Martini Marzuki
Special Tasks	Br Muhamad Firdaus Shamsudin Br Meor Shahmer Azrai Meor Samsudin



MESSAGE FROM

**DEPUTY RECTOR (RESPONSIBLE RESEARCH & INNOVATION)
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA**

Professor Dr. Ahmad Hafiz Zulkifly



Assalamualaikum warahmatullahi wabarakatuhu.
Alhamdulillah, all praises be to Allah Subhanahu Wata'ala.

It is with great pleasure that I welcome you to the International Conference on Information & Communication Technology for the Muslim World (ICT4M) held in Kuala Lumpur. This gathering of esteemed academicians, researchers, practitioners, professionals, and students aims to address the challenges and opportunities of ICT within the Muslim world.

This year, the conference theme focuses on the transformative potential of ICT in shaping sustainable digital identity systems and advancing social good. By integrating ICT solutions, we can effectively tackle the complex issues related to identity management, privacy, inclusivity, and security while promoting the achievement of sustainable development goals.

One of the key benefits of ICT is its ability to facilitate collaboration among various stakeholders. Governments, private sector organizations, civil society, and individuals can join forces to drive sustainable digital identity initiatives. Through such collaboration, we can ensure the efficient delivery of social welfare programs by eliminating duplicate or fraudulent identities. This ensures that those in need receive the necessary support, reducing poverty and enhancing social well-being.

As we gather for this conference, we hope to harness the mutual benefits and seize the abundant opportunities that lie before us. Together, we can explore how ICT can contribute to the betterment of the Muslim world and beyond. We encourage you to engage in meaningful discussions, share your insights, and forge collaborations that will shape the future of ICT and sustainable digital identities.

On behalf of the organizing committee, I extend my heartfelt gratitude for your presence and participation. Your contributions and dedication to this field will undoubtedly make a significant impact. May your time here be enriching, and may we collectively work towards creating a more inclusive and prosperous future.



MESSAGE FROM

**Dean Kulliyah of Information and Communication Technology
International Islamic University Malaysia**

Professor Dr. Murni Mahmud



Assalamualaikum warahmatullahi wabarakatuhu.
Alhamdulillah, all praises be to Allah Subhanahu Wata'ala.

On behalf of the ICT4M 2023 committee, I extend a warm welcome to the International Conference on Information and Communication Technology for the Muslim World 2023 in Kuala Lumpur, Malaysia.

ICT4M 2023 marks a significant effort from the Kulliyah of Information and Communication Technology (KICT) as we explore new opportunities and gather researchers, educators, and practitioners in this multidisciplinary event. We aim to create a platform for sharing and discussing the latest research findings, services, and products that leverage and empower the transformation of the Ummah.

Since its inception in 2001, ICT4M has evolved alongside the establishment of KICT, with the inaugural conference held in the Senate Hall of IIUM, Gombak. Initially named the International Conference on Information Systems and Islam, the conference subsequently travelled to Kuala Lumpur, Jakarta, Indonesia, Morocco, and Sarawak, showcasing its global reach. For ICT4M 2023, we are returning to our roots in Gombak.

The success of this conference hinges upon the collective efforts and contributions of all involved. We extend our heartfelt gratitude to all parties involved in the planning and preparation of this event, as well as the dedicated conference committee members.

We also extend our sincere appreciation to our esteemed keynote speakers who have generously shared their knowledge and experiences with us. Furthermore, we express our gratitude to all presenters for their valuable contributions, enriching the conference with their research papers.

We pray that this conference serves as a platform for fruitful discussions, networking opportunities, and the exchange of ideas. May the outcomes of this event contribute significantly to the advancement of ICT for the betterment of the Muslim world. Jazakum Allahu Khayran.



MESSAGE FROM

Chairperson
International Conference on ICT for Muslim World

Dr. Mohd Izzuddin Mohd Tamrin



Assalamualaikum,

Alhamdulillah, all praises be to Allah subhanahu wata'ala.

On behalf of the ICT4M 2023 committee, it is my great pleasure to welcome you to the International Conference on Information and Communication Technology for the Muslim World (ICT4M 2023) in the beautiful city of Gombak, Malaysia.

We extend our heartfelt appreciation to all the authors who have participated in this conference and contributed their valuable works. Your presence and dedication have played a significant role in making this event a success. ICT4M 2023 serves as a platform to explore new opportunities and aims to bring together educators and practitioners from various disciplines to share and discuss their latest research findings, services, and products that can contribute to the transformation of the Ummah.

We would also like to express our gratitude to the keynote speakers and session chairs who have generously agreed to support ICT4M 2023. Their expertise and insights will undoubtedly enrich our discussions and enhance the overall conference experience.

Last but certainly not least, I would like to acknowledge the immense contributions of the organizing committee, reviewers, as well as the dedicated colleagues, staff, and volunteers from the Kulliyah of ICT. Your tireless efforts and commitment have been instrumental in bringing this conference to fruition.

Once again, a warm welcome to ICT4M 2023. May this conference foster meaningful collaborations, inspire innovative ideas, and pave the way for advancements in information and communication technology for the Muslim world. We hope you have a fruitful and memorable experience during your time here



KEYNOTE SPEAKER 1

**Prof. Dr. Mira Kartiwi,
Director, Center for Professional Development,
International Islamic University Malaysia**



Biodata

Prof. Mira holds a distinguished academic background, having successfully completed her studies at the University of Wollongong, Australia. Her academic journey led her to attain several degrees, including a Bachelor of Commerce in Business Information Systems, a Master of Information Systems, and a PhD with a thesis entitled "Electronic commerce adoption in urban and rural Indonesian SMEs." Currently, Prof. Mira holds the esteemed position of Professor in the Department of Information Systems at the Kulliyah of Information and Communication Technology, International Islamic University Malaysia (IIUM). In addition to her professorship, she serves as the Director for the Centre for Professional Development at IIUM, showcasing her commitment to the holistic development of professionals in the field. Recognized for her exceptional research capabilities, Prof. Mira was honoured with the Australia Postgraduate Award (APA) in 2004. In 2007, she received the prestigious Higher Degree Research Award for Excellence, highlighting her outstanding contributions to the realm of research. Moreover, in 2011, she was appointed as an Honorary Fellow at the University of Wollongong, Australia, where she actively engaged in collaborative research endeavours with esteemed researchers from the Business Faculty and SMART Infrastructure Facility. Prof. Mira expertise has been acknowledged by her appointment to the Editorial Boards of local and international journals, solidifying her position as a respected authority in her field.



KEYNOTE SPEAKER 2

Ybhg. Professor Dato' Dr. Muhammad Nor Manuty
Director,
Institute of Islamic Understanding Malaysia



Biodata

Dato Dr. Muhammad Nur Manuty, aged 74, embarked on his educational journey at the Islamic College of Malaya in Klang, Selangor, where he laid the foundation for his intellectual pursuits. His passion for knowledge led him to pursue a Bachelor of Islamic Studies in Usuluddin and Philosophy at the esteemed National University of Malaysia (UKM) from 1970 to 1974. Driven by a thirst for deeper understanding, Dato Dr. Muhammad Nur Manuty pursued his academic aspirations further. He ventured to the United States, where he pursued Master's and Doctor of Philosophy degrees at the University of Temple from 1978 to 1987. His doctoral studies focused on Islamic thought and comparative religion, allowing him to develop a comprehensive understanding of these subjects. Dedicating his expertise to academia, Dato Dr. Muhammad Nur Manuty began his illustrious career as a lecturer in the Department of Arabic Studies and Islamic Civilization at UKM. His teaching prowess and scholarly contributions were highly regarded, leading him to assume the roles of Senior Lecturer and Associate Professor in the Department of Usuluddin and Comparative Religion at the prestigious International Islamic University of Malaysia (UIAM) from 1983 to 1999. In recognition of his outstanding achievements and contributions to society, Dato Dr. Muhammad Nur Manuty was appointed as a senator in 2015, following his election by the Selangor State Assembly. This appointment further exemplifies his commitment to public service and his dedication to making a positive impact in the community.



KEYNOTE SPEAKER 3

**Prof. Dato' Dr. Mohamad Fauzan Bin Noordin,
Director,
International Institute of Islamic Thought
(East & Southeast Asia)**



Biodata

Professor Dato' Dr. Mohammad Fauzan Noordin is an esteemed academic with an impressive educational background. He obtained his Ph.D. from the University of Wales, U.K., in 1997, furthering his knowledge and expertise in his field. Prior to that, he earned an MBA from the Central Missouri State University, U.S.A., in 1991, and a B.Sc. in Computer Science from the University of Missouri Kansas City, USA, in 1989. Currently serving as a Professor in Knowledge Technology at the Kulliyah of Information and Communication Technology, International Islamic University Malaysia, Professor Dato' Dr. Mohammad Fauzan Noordin has made significant contributions to academia and research. His book, titled "ICT and Islam," has become a widely recognized textbook utilized in several universities. Such recognition highlights the depth of knowledge and insights he brings to the field. Over the course of his career, Professor Dato' Dr. Mohammad Fauzan Noordin has held various prestigious positions. He currently leads the ICT and Islam Research Cluster and previously served as the Dean of the Center for Postgraduate Studies at IIUM from 2012 to 2013. His expertise has been sought globally, as evidenced by his appointments as a Visiting Scholar at the University of Bahrain (2004-2005) and Jazan University in the Kingdom of Saudi Arabia (2010-2011). He has served as a member of the research panel for the Research Grant at the Ministry of Science, Technology, and Innovation since 2005. His valuable insights have also been sought in the capacity of a Panel Thinker for the National Dakwah Policy of Malaysia. Moreover, his involvement as a member of Majlis Syura Kerajaan Negeri Pulau Pinang and Majlis Agama Islam Pulau Pinang (2019-20) showcases his commitment to community engagement and leadership.



KEYNOTE SPEAKER 4

Prof. Emeritus Dato' Ts. Dr. Tengku Mohd Bin Tengku Sembok
Professor,
Kulliyah of ICT,
International Islamic University Malaysia



Biodata

Prof. Tengku Mohd is a highly experienced professional with a distinguished career spanning over forty years in the field of Information Communication Technology (ICT). Throughout his extensive journey, he has excelled in various domains, including teaching undergraduate and postgraduate programs, overseeing numerous research and development projects, and providing consultancy services. His academic achievements are notable, having earned a B.Sc (Hons) in Computer Science from Brighton Polytechnic in 1977. He further expanded his knowledge by pursuing an MS degree from Iowa University in 1981 and a PhD from Glasgow University in 1989, solidifying his expertise and contributing to the advancement of ICT. Prof. Tengku impactful leadership roles include his appointment as the Deputy Vice Chancellor (Academic and Internationalisation) at the National Defence University Malaysia (NDUM) from 2007 to 2010 and 2015 to 2021. Prior to this, he served as the Dean of the Kulliyah ICT at the International Islamic University Malaysia, demonstrating his commitment to academic excellence and institutional growth. Additionally, he holds the distinguished position of a senior fellow in the Cyber Security Centre of NDUM, further showcasing his expertise in this critical domain. His involvement in committees such as the SIGIR Program Committee, UNESCO Ethics in Science and Technology, Terengganu State ICT Council, IRPA Steering Committee in the Services Sector (MOSTE), and Curriculum Development Committee for Computing Subject (Malaysia Examination Council) highlights his commitment to advancing the ICT landscape.



KEYNOTE SPEAKER 5

**Dr. Marjan Muhammad,
Director,
Research Quality Assurance & Publication
INCEIF University**



Biodata

Dr. Marjan Muhammad is a distinguished professional currently serving as the Director of the Research Quality Assurance & Publications Department at the International Shari'ah Research Academy for Islamic Finance (ISRA) Research Management Centre, INCEIF University. Her role encompasses the oversight of various portfolios, including research quality and assessment, publications, and research intellectual property and commercialization. Dr. Marjan has a wealth of experience in the field of Islamic finance. Previously, she held the position of Director of the Research Affairs Department at ISRA from 2013 to 2017. Her expertise has been recognized at both the national and international levels. She is a member of the Shariah Advisory Council of Bank Negara Malaysia (BNM), starting from November 1, 2019. She has also served as a member of the Shariah Committee for esteemed institutions such as Maybank Islamic Berhad, SME Bank Berhad, MBSB Berhad, and RHB Islamic Berhad. Moreover, she contributes to the global Islamic finance landscape as a member of the Advisory Committee of Experts for Lotus Bank Limited and the Shariah Supervisory Board of Lotus Capital Limited, both based in Nigeria. Dr. Marjan Muhammad's contributions to the field of Islamic finance extend beyond her roles in research and advisory capacities. She has made significant contributions to academia through her published articles in reputable international and local refereed journals. Additionally, she has authored research papers, book chapters, and industry reports on various aspects of Islamic finance. Her expertise has been recognized and sought after, leading her to present papers at numerous local and international conferences. Furthermore, Dr. Marjan Muhammad has played a pivotal role in the publication of key textbooks at ISRA, such as the widely acclaimed 'Islamic Financial System: Principles and Operations (2nd ed.)', 'Sukuk: Principles & Practices', and 'Islamic Capital Markets: Principles & Practices'. Her dedication to disseminating knowledge and promoting understanding in the field is evident in her contributions as an editor of these important works.

SCHEDULE FOR ICT4M 2023

01 DAY ONE (15 TH AUGUST 2023) TUESDAY

TIME	PROGRAMME/EVENT
8.00AM-9.30AM	REGISTRATION
9.30AM-9.45AM	Welcoming Speech: Professor Dr Murni Mahmud Dean of KICT, IIUM
9.45AM-10.00AM	Opening Speech: Professor Dr Ahmad Hafidz Zulkifly Deputy Rector Responsible Research & Innovation, IIUM
10.00AM-11.00AM	Keynote 1 Speaker: Professor Dr Mira Kartiwi Director, Centre for Professional Development, IIUM
11.00AM-11.30AM	Tea Break
11.30AM-12.30PM	Keynote 2 Speaker: Ybhg. Prof. Dato' Dr Muhammad Nur Manuty Director, Institute of Islamic Understanding Malaysia
12.30PM-2.00PM	Lunch & Zohor Prayer
2.00PM-5.00PM	Parallel Sessions 1 <ul style="list-style-type: none"> -Information and Communication Technology (ICT) & Islam Room 1 -Semantic Body of Knowledge & Technology Room 2 -Information System & Digital Humanities Room 3 -Artificial Intelligence, E-Learning and Human Computer Interaction Room 4 -Software Engineering, Blockchain & Cyber Security Room 5
5.00PM-5.30PM	Tea Break

SCHEDULE FOR ICT4M 2023

02

DAY TWO (16 TH AUGUST 2023)

WEDNESDAY

TIME	PROGRAMME/EVENT
9.00AM-10.00AM	Keynote 3 Speaker: Professor Dr Mohamad Fauzan Noordin Director, IIIT East & Southeast Asia
10.00AM-11.00AM	Keynote 4 Speaker: Professor Dr Tengku Mohd Tengku Sembok Professor, Kulliyah of ICT IIUM
11.00AM-11.30AM	Tea Break
11.30AM-12.30PM	Keynote 5 Speaker: Dr Marjan Muhammad Director, Research Quality Assurance & Publication, INCEIF University
12.30PM-1.00PM	Closing Ceremony Professor Dr Murni Mahmud
1.00PM-2.00PM	Lunch & Zohor Prayer

TRACK 1: ICT & ISLAM

PARALLEL SESSION (TRACK 1)

Date: Tuesday, 15th August 2023 | Time: 2pm - 5pm | Venue: Room 1 (LR 9)

Moderator: Prof Dr Akram MZM Khedher

PID	PAPER TITLE	AUTHORS
5025	AN ASSESSMENT OF THE ISLAMIC PERSPECTIVES ON THE USAGE OF INFORMATION AND COMMUNICATION TECHNOLOGY	SHEEBA SHAHID, ASADULLAH SHAH, NAJHAN M IBRAHIM, MOHD KHAIRUL AZMI HASSAN AND AKRAM M. ZEKI
9805	ACCEPTANCE OF DAKWAH CONTENTS ON SOCIAL MEDIA AMONG THE GEN Z	HUSNA SALEHUDIN, ROSMAWATI MOHAMAD RASIT AND ZULKEFLI AINI
1068	INFECTIOUS DISEASE-RELATED APPLICATIONS: A DESCRIPTIVE REVIEW	RAFIDAH ISA, MOHAMMAD FAUZAN NORDIN, ROSLINA OTHMAN AND HAZWANI MOHD MOHADIS
4834	MTECH: A CONCEPTUAL BUSINESS MODEL TO PROVIDE COST-EFFECTIVE TECH REPAIR SERVICES AND NURTURING B40 TECH-PRENEURS	AHMAD HAKIMI AHMAD RASIDI, YASHA ADAM YAZID, AIRIL BAZIL AZAMIN, MUHAMMAD HARITH DANIAL HARUN AND ABDUL RAHMAN AHMAD DAHLAN
8582	A CONCEPTUAL CLEANSOLUTION BUSINESS MODEL: EMPOWERING LOW-INCOME B40 COMMUNITIES AS ENTREPRENEURS THROUGH HOUSEKEEPING AND SERTU CLEANING SERVICES	NURRDINAN SERENA BINTI AMER SHARIFFUDIN, WAN MAIZATUL AKMAL BINTI WAN AHMAD SAYUTI, NUR FAIZAH BINTI MHD KAMIL, ZAKARYA BABATAT AND ABDUL RAHMAN BIN AHMAD DAHLAN
9115	A CONCEPTUAL CLEANAGO PLATFORM BUSINESS MODEL: NURTURING B40 CLEANING-PRENEURS AND OFFERING JOB OPPORTUNITIES IN QUALITY & HYGIENIC SERTU CLEANING SERVICES	SAUFI AZMI, MUHAMMAD AZHAD MUHAMMAD NASIM AND ABDUL RAHMAN AHMAD DAHLAN
9391	A CONCEPTUAL EDUCONNECT PLATFORM BUSINESS MODEL: NURTURING THE B40s AND UNDEREMPLOYED GRADUATES AS DIGITAL-ENTREPRENEURS	MOHAMAD NABIL BIN MOHAMAD SARIFF, RAIHANA HUSNA BINTI MOHD RIDZUAN, MUHAMMAD IRFAN BIN MOHD DAUD, MUHAMMAD SYAHRUL AMRI BIN SUHAIMI AND ABDUL RAHMAN BIN ABDUL DAHLAN

TRACK 2: SEMANTIC BODY OF KNOWLEDGE & TECHNOLOGY

PARALLEL SESSION (TRACK 2)

Date: Tuesday, 15th August 2023 | Time: 2pm - 5pm | Venue: Room 2 (LR 10)

Moderator: Prof Datin Dr Roslina Othman

PID	PAPER TITLE	AUTHORS
3910	ONTOLOGY-BASED ANALYSIS FOR ISLAMIC FINANCE AND BANKING	ROSLINA OTHMAN, MOHAMAD FAUZAN NOORDIN, MOHD KHAIRUL NIZAM ABD LATIF AND SITI FATIMAH MOHD TAWIL
122	SEMANTIC SIMILARITY EXPLORATION IN HETEROGENEOUS SPARSE MULTIDIMENSIONAL NUMERIC SPACES: A CASE STUDY OF THE QURAN TEXT USING SEMSIM	ADEL SABOUR, ABDELTAWAB HENDAWI AND MOHAMED ALI
2895	A PRELIMINARY STUDY ON THE MECHANISM TRUSTWORTHINESS FRAMEWORK FOR MALAY TRADITIONAL MEDICINE DATA RETRIEVAL DATABASE	MUHAMMAD ALIF BASAR, MUHAMAD SADRY ABU SEMAN, MOHD AFFENDI MOHD SHAFRI AND FARAHIDAH MOHAMED
2814	A CONCEPTUAL MASJIDCAST BUSINESS MODEL: ENHANCING DIGITAL SKILLS OF MASJID COMMUNITY AND NURTURING B40s AS BALANCED DIGITAL-PRENEURS	MUHAMMAD FIRDAUS BIN SHAHRUM, KHAIRUL AKMAL BIN NOORMAIZAN, FARIS FARHAN BIN AZLAN, MUHAMMAD HANEEF BIN SALIM AND ABDUL RAHMAN BIN AHMAD DAHLAN
6079	A CONCEPTUAL MFISHBANK BUSINESS MODEL: THE COMMUNITY CONNECTEDNESS BETWEEN MASJID, FISHERMEN AND THE CONSUMERS	HANI ARINAH BINTI HAIRUL AZAM, MOHD FAIZ HAFIZUDDIN BIN AHMAD YAZI, SHAHREEN SHAFIQ BIN SHAMSUL ASWADI, HANI NURSYAMIRA BINTI MUHAMAT HALIS AND ABDUL RAHMAN BIN AHMAD DAHLAN
9272	A CONCEPTUAL MFARM BUSINESS MODEL: MOSQUE AS A SUSTAINABLE FARMING CENTRE, RESKILLING AND NURTURING B40 AS AGRO-PRENEURS	NURUL IFFAH ALIA OMAR, ALFIN NAJEEHAH ZAHID, NURUL SHAHIRAH AHMAD FIKRI, AFIQ AIMAN OTHMAN AND ABDUL RAHMAN AHMAD DAHLAN
2472	A CONCEPTUAL CAR2RENT BUSINESS MODEL: EMPOWERING RETRENCHED WORKERS AND LOWER-INCOME INDIVIDUALS THROUGH DIGITAL CAR RENTAL	MUHAMMAD AIMAN SYAKIRIN MOHDFAUZI, AZAMUDDEEN SHAHPUDIN, MUHAMAD HAZIM NOR AIZI, MUHAMAD ALIF IZZUMMY MOHAMAD RADHI AND ABDUL RAHMAN AHMAD DAHLAN

TRACK 3: IS & DIGITAL HUMANITIES

PARALLEL SESSION (TRACK 3)

Date: Tuesday, 15th August 2023 | Time: 2pm - 5pm | Venue: Room 3 (LR 11)

Moderator: Prof Dr Asadullah Shah

PID	PAPER TITLE	AUTHORS
5324	MENTAL STATE DETECTION FROM TWEETS BY MACHINE LEARNING	NABIUL FARHAN NABIL, ASHADULLAH GALIB AND TAKUMI SASE
7577	INTERACTIVE FOLKLORE - RE-MODERNIZING THE CULTURE THROUGH DIGITAL STORYTELLING	FAHD MOHD FAUZI, MUHAMMAD ILHAM HAKIMI MOHAMAD NIZAM AND NURAZLIN ZAINAL AZMI
2984	SMART CTZEN: A DIGITAL STORYTELLING APP TO EMPOWER YOUTH'S AWARENESS IN CYBER SAFETY AND SECURITY.	ANIS ASILA OTHMAN, NURIDAH SAPEE-E AND DR. NURUL NUHA ABDUL MOLOK
4919	SMARTPARENTS: CYBERSECURITY AWARENESS WEBSITE APPLICATION FOR PARENTS	NUR SYAZWANI JAMALUDIN, NUR AIENA HAJEERAH ABDUL HAKIM AND DR. NURUL NUHA ABDUL MOLOK
7623	A CONCEPTUAL SKILLS4U MULTI-SIDED DIGITAL PLATFORM BUSINESS MODEL: CONNECTEDNESS TO ENABLE B40 RETRENCHED WORKERS TO DISCOVER NEW JOBS AND AS ENTREPRENEURS	MUHAMMAD AMIR HAMZAH BIN ABD AZIZ, FAISHAL AQIL BIN MOHD ARIEF, AMIRUL AZIM BIN AMRAN, MUHAMMAD AMIRUDDIN BIN ALIAS AND ABDUL RAHMAN BIN AHMAD DAHLAN
6508	A CONCEPTUAL ARTISTRIES MULTI-SIDED BUSINESS MODEL: UPSKILLING AND NURTURING PEOPLE WITH A FINANCIAL IMBALANCE IN BANGLADESH AS FASHION-PRENEURS	AHMAD ISHTIAK NAHID, TASNUVA TASNIA, MOKTER HOSSAIN AND ABDUL RAHMAN BIN AHMAD DAHLAN
7364	A CONCEPTUAL BE-4-THRIFT BUNDLE BUSINESS MODEL: ENCOURAGE SUSTAINABLE CLOTHES CONSUMPTION AND UPSKILLING B40 AS ENTREPRENEURS	NUR HANNA YUSOF, NABILAH AIDA JAMALUDIN, NURUL ZAHIDAH JAMALUDIN, RABIATUL ADAWIYAH MOHAMMAD AZMI AND ABDUL RAHMAN AHMAD DAHLAN

TRACK 4: AI, E-LEARNING & HCI

PARALLEL SESSION (TRACK 4)

Date: Tuesday, 15th August 2023 | Time: 2pm - 5pm | Venue: Room 4 (LR 12)

Moderator: Prof Dr Abdul Rahman Ahlan

PID	PAPER TITLE	AUTHORS
9636	A CONCEPTUAL FRAMEWORK: CULTURAL BASED APPROACH IN COLLABORATIVE ONLINE LEARNING IN PRIMARY SCHOOLS	FARHAN HANIS MUHMAD ASRI, DALBIR SINGH VALBIR SINGH, ZULKEFLI MANSOR AND HELMI NORMAN
465	MINDFUL UX DESIGN IN INDUSTRY 4.0: MITIGATING ADDICTION AND ENHANCING USER WELL-BEING IN SOCIAL MEDIA AND AI ENVIRONMENTS	NAHREEN ZANNAT AND MURNI MAHMUD
5826	A CONCEPTUAL FRAMEWORK OF E-LEARNING CHALLENGES DURING COVID-19 IN HIGHER EDUCATION INSINUATIONS OF PAKISTAN	IMRAN KHAN, ASADULLAH SHAH, MASOOMI HIFAZAT ALI SHAH, NAJHAN MUHAMAD IBRAHIM AND HAZWANI MOHD MOHADIS
3040	ARTIFICIAL INTELLIGENCE AND MODERN INFORMATION TECHNOLOGIES APPLICATIONS IN ISLAMIC SCIENCES: A SURVEY	AHMAD RABIEI ZADEH
1458	DEVELOPMENT OF CONCEPTUAL FRAMEWORK-TEACHING QUALITY OF ACADEMICIANS TOWARDS MOOCs IN THE HIGHER EDUCATION IN PAKISTAN	HIFAZAT ALI SHAH MASOOMI, ASADULLAH SHAH, IMRAN KHAN, NORSAREMAH BT SALLEH AND ABDUL ABDUL RAFIEZ
8586	BUSINESS MODEL SHIFTS IN POST-PANDEMIC ERA: DIGITAL TRANSFORMATION OF A MALAYSIAN PUBLIC RESEARCH UNIVERSITY TOWARDS SUSTAINABLE EDUCATION	SITI AISYAH BINTI ABD RAHIM AND ABDUL RAHMAN AHMAD DAHLAN
7223	A CONCEPTUAL SMART SUSTAINABLE CITY BUSINESS MODEL: A CASE OF CITY COUNCIL IN MALAYSIA	MUHAMMAD HAZIQ HAYAZI AND ABDUL RAHMAN AHMAD DAHLAN

TRACK 5: SOFTWARE ENGINEERING, BLOCKCHAIN & CYBERSECURITY

PARALLEL SESSION (TRACK 5)

Date: Tuesday, 15th August 2023 | Time: 2pm - 5pm | Venue: Room 5 (C2-05)

Moderator: Assoc Prof Dr Normi Sham Awang Abu Bakar

PID	PAPER TITLE	AUTHORS
940	NEW DEMAND ON ASSEMBLY LANGUAGE PROFICIENCY IN PERFORMING BINARY REVERSE ENGINEERING TASKS	KHAIROL AMIN MOHD SALLEH
1324	IMAGE STEGANOGRAPHY: COMPARATIVE ANALYSIS OF THEIR TECHNIQUES, COMPLEXITY AND ENHANCEMENTS	AHMAD ZULFAKAR BIN ABD AZIZ, MUHAMMAD FITRI BIN MOHD SULTAN AND NURUL LIYANA BINTI MOHAMAD ZULKUFLI
3680	NON-FUNGIBLE TOKEN BASED SMART MANUFACTURING TO SCALE INDUSTRY 4.0 BY USING AUGMENTED REALITY, DEEP LEARNING AND INDUSTRIAL INTERNET OF THINGS	FAZEEL AHMED KHAN AND ADAMU ABUBAKAR IBRAHIM
1157	MODELING THE WORKFLOW OF BUG PRIORITIZATION TASKS DESCRIPTIVELY USING THE PAST EVENTS	SOHAIB ALTAF RAJA, MADIHAH SHEIKH ABDUL AZIZ AND ASADULLAH SHAH
1755	A SECURITY ANALYSIS FOR MASTER PASSWORD ENCRYPTION USING BRUTE FORCE ATTACK.	IRFAN RIFQI AZMI, WAN FATHIHUL AKRAM WAN MANSOR AND NORLIA MD YUSOF
1292	THE IMPLEMENTATION OF BLOCKCHAIN TECHNOLOGY IN THE ZAKAT MANAGEMENT SYSTEM: A CONCEPTUAL RESEARCH	AMELIA NUR NATASHA BINTI NAZERI BINTI NAZERI AND SHIFA MOHD NOR
6575	REVIEW OF OPPORTUNITIES AND CHALLENGES REPRESENTED BY BIG DATA FOR FINTECH IN MALAYSIA	IBRAHIM AHMED, LILI ABDULLAH AND RIZAL NOR

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