



KICT NEWSLETTER

Issues no.6/2023

July 2023

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Motivational Quote

"There are more fake guides, teachers in the world than stars. The real guide is the one who makes you see your inner beauty, not the one who wants to be admired and followed."

Shams Tabrizi

HAFIZAH BINTI MANSOR

ASSISTANT PROFESSOR DEPARTMENT OF COMPUTER SCIENCE



RESEARCH EXPERTISE

Automotive Security, Cyber Security, IoT, IoT Security

QUALIFICATION

- · PhD in Information Security from Royal Holloway, University of London (2017)
- MSc. Computer Science (Real Time Software Engineering) from Universiti Teknologi Malaysia (2009)
- · Bachelor of Electrical and Electronics Engineering from Universiti Tenaga Nasional (2004)

PROFESSIONAL MEMBERSHIP

MBOT; CSAM; IEEE; PECAMP

ACHIEVEMENT AND AWARDS

Certified Cyber Defender Associate (CCDA), Professional Technologist (MBOT), Copyrights (FoRent- Vehicle Forensics for Car Rental System; In-Vehicle Network Traffic Dataset)

CONTACT



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- · https://sites.google.com/iium. edu.my/hafizahmansor/hom
- https://orcid.org/0000-0002-4309-7477

ABOUT ME

I obtained a Phd in Information Security from Royal Holloway, University of London in 2017. I am recognised as a Professional Technologist under Malaysia Board of Technologists since Jan 2022. I obtained an MSc. Computer Science (Real Time Software Engineering) from Universiti Teknologi Malaysia in 2009 and Bachelor of Electrical and Electronics Engineering from Universiti Tenaga Nasional in 2004. I have experience working in the industry as an application engineer at Malaysia Microelectronic Solutions Sdn. Bhd. (a MIMOS subsidiary) for 7 years, and a year as a software developer at Datasonic Corporations Sdn. Bhd. My research interest is in IoT and IoT security.

RESEARCH GRANTS

- Face Detection Attendance System, KICT, Co-Researcher, 15/12/2020-15/6/2023 (RM15.35k)
- Smart Door Access System, KICT, Co-Researcher, 15/12/2020-15/6/2023 (RM20k)
- · Secure Water Monitoring and Management (SWaM) System, PPRN, Co-Researcher, 12/10/2020-12/12/2021 (RM39.6k)
- · Secure framework for digital forensics of vehicle maintenance, FRGS-RACER, Principal Investigator, 1/9/2019-31/5/2022 (RM40k)
- Secure Maintenance Services Logging System for Automotive Systems, RIGS, Principal Investigator, 7/12/2017-6/9/2020 (RM20k)

CONSULTATION PROJECTS

- Guideline on Testing and Evaluation Methodology for Data Privacy in ICT/IoT Products and Applications, Cyber Security Malaysia (CSM), Co-Researcher, 15/6/2022-31/12/2022 (RM50k)
- Development of Data Privacy Specification for Developing ICT/IoT Products and Applications, Cyber Security Malaysia (CSM), Co-Researcher, 1/4/2022-31/7/2022 (RM50k)
- Privacy and Security in Cloud First Policy Environment (Microsoft Fund), Microsoft Corporation, Co-Researcher, 1/12/2017-28/2/2018 (RM20k)

RECENT PUBLICATIONS

- · Ab Razak, N. S, Mansor, H. & Sharmin, S. (2023). A Secure Framework for Vehicle Maintenance Service using Blockchain. In Proceedings of the 2023 12th International Conference on Software and Computer Applications (ICSCA '23). Association for Computing Machinery, New York, NY, USA, 267-272. https://doi.org/10.1145/3587828.3587868
- Sharmin, S., Mansor, H., Abdul Kadir, A. F., & A. Aziz, N. (2023). Comparative Evaluation of Anomaly-Based Controller Area Network IDS. In Proceedings of the 2023 12th International Conference on Software and Computer Applications (ICSCA '23). Association for Machinery, New York, NY, https://doi.org/10.1145/3587828.3587861
- Ajwa, N. F., Ali Azmi, N. N. ., & Mansor, H. (2022). Simulation of In-Vehicle Network CAN (In)Security. International Journal on Perceptive and Computing, Cognitive 8(2), 71-76. Retrieved https://journals.iium.edu.my/kict/index.php/IJPCC/article/view/330
- Sahlan, F., Feizal, F. Z., & Mansor, H. (2022). Home Intruder Detection System using Machine Learning and IoT. International Journal on Perceptive and Cognitive Computing, 8(2), 56-60. Retrieved from https://journals.iium.edu.my/kict/index.php/IJPCC/article/view/329

MUHAMAD NAJHAN MUHAMAD IBRAHIM

ASSISTANT PROFESSOR **DEPARTMENT OF INFORMATION SYSTEMS**

RESEARCH EXPERTISE

AI, Big data, Web services, SOA

QUALIFICATION

- · PhD in Information Technology -Doctor of Philosophy, Universiti Teknologi Petronas (UTP)
- · Master of Information Technology -Masters Degree, International Islamic University Malaysia
- · Bachelor of Information Technology (Honours) - Bachelor Degree, International Islamic University Malaysia

ACHIEVEMENT AND AWARDS

Gold Medal - FINAL YEAR PROJECT SHOWCASE AWARDS - KICT. Highest Number of Indexed Chapter in Research Books Award - KICT. Adjunct Senior Lecturer - University of Limerick, Ireland

CONTACT



najhan_ibrahim@iium.edu.my



https://scholar.google.com/citatio ns?user=HyapeXkAAAAJ&hl=en

ABOUT ME

Najhan Muhamad Ibrahim received his Ph.D. from Universiti Teknologi PETRONAS under Graduated Assistant (GA) program. His Ph.D. research area was Agent-based Technology for Service Oriented Architecture. He did his postdoctoral in Computer Sciences for Big Data in Digital Humanities at the University of Limerick, Ireland. His current research is on Big Data and Al. He is an Assistant Professor at the Department of Information Systems, Kulliyyah of Information and Communication Technology (KICT). He started his career in Data Warehousing at Satyam Computer Services in 2006. After that, he joined V-Source Sdn Bhd as Technical support, then he joined AKER Solutions Sdn Bhd (Oil & Gas) as Information Technology Services Management (ITSM). He was also working as a lecturer at University Sultan Azlan Shah (USAS) and as a part-time lecturer at Universiti Teknologi PETRONAS (UTP) from 2013 -2019.

RESEARCH GRANTS

- · Holistic Big Data Interoperability Framework for Malaysia Public OpenData to Discover Disease Patterns, Principle Investigator, 1 Jan 2021 - 31 March 2023 (RM13400).
- ISLAMIC WORLDVIEW, ICT AND SOCIETY, Co-researcher, 1 Sept 2021 now (RM10000).
- Development of Framework and Business Model for University Crowdsourcing Food-Bank Mobile Application, Co-researcher, 23 December 2020 - now (RM20000).
- A Novel Framework of Digital Food Marketplace for International Islamic University Malaysia (IIUM) Community, Co-researcher, 1 Jan 2021 - now (RM12000).
- · Duties and liabilities of State Islamic Religious Council as Trustee of Waqf in Malaysia: Improving the efficiency in Waqf administration.

RECENT PUBLICATIONS

- Big data framework to evaluate and analyse National Covid-19 Immunization Programmed (NCIP) in Malaysia: a comparative study. Journal of Engineering Science and Technology (JESTEC), 18 (1) pp. 783-791.
- · Optimising Wagf law for effective administration: a comparative analysis of the Trustee Act 1949 and state Wagf enactments. IIUM Law Journal, 31 (1) pp. 235-260.
- The state of open government data implementation in Malaysia government agencies. Journal of Information Systems and Digital Technologies, 4 (1) pp. 82-92.
- · Big data processing using Hadoop HDFS and map-reduce for Public Open Data (POD). Journal of Engineering Science and Technology, 16 (Special Issue on ACSAT, December 2021) pp. 1-11.
- · A comprehensive comparative study of MOM for adaptive interoperability communications in service oriented architecture. International Journal of Trend in Scientific Research and Development (IJTSRD), 3 (3) pp. 23-30.
- · Mathematical modeling using coordination mechanisms for multi-agent systems in service oriented architecture. Journal of Information Systems and Digital Technologies, 1 (2) pp. 48-63.
- Towards big data framework in government public open data (GPOD) for health. In: Elsevier, ISBN: 978-0-323-91907-4, pp. 54-83.

ARTICLE OF THE MONTH

Research and Publications in Islamic Perspective (Part 3: Presentation)



By Akram M Z M Khedher

This article is the 3rd part of the "Research and Publications in Islamic Perspective", since part 1 was an introductory on this topic, while part 2 was focusing on experimental results of the research. This part focuses on the presentation, which is needed in any research and publication, the presentation of the work should be clear, simple and transparent. In this article we are going to discuss some of these issues from Islamic perspective.

A part of sharing knowledge is to **make it clear** for others, so they can re-do the experiments again if there is a need. In the holy Quran, Allah Almighty says: "And remember when Allah took a covenant from the People of the Book to make it known and clear to mankind (Ali-'Imran: 187).

When we publish our work, we should also remember **not to hide any results / data** in the hope of saving it for a later publication or for not benefiting others from it, the Messenger of Allah says: Whoever conceals knowledge, Allah will bridle him with reins of fire on the Day of Resurrection" (Ibn Hibban).

In addition, a researcher **should not discuss any issue without knowledge** about the case. A reference to this is in the hadith of the messenger of Allah (*peace be upon him*) when he was answering a question posed to him by Angel Jibril. He: "... I have no more knowledge thereof than you..." (Al-Bukhari and Muslim).

A researcher should also be able to **simplify knowledge** for students and readers; he should use simple, everyday language so that they can understand better. The messenger of Allah says: "It is the case that you do not relate to the people a narration which their minds cannot grasp except that it becomes a Fitnah for some of them" (Muslim).

Conclusion: This article discusses research and publications in Islamic perspective, emphasizing the importance of clear, simple, and transparent presentation. Sharing knowledge is crucial for others to re-do experiments if needed. Researchers should not hide results / data for future publication.

Congratulations for Completing the Research Project









Congratulations for Securing Research Grant



Appreciation for previous leadership July 2021 - June 2023













ACHIEVEMENTS AND RECOGNITIONS













Appreciation for previous contribution to Office of KICT May 2021 - June 2023



Appreciation for previous contribution as Director of IIUM Press 2013-2023



Congratulations on the Appointment of New Office Barrier





Prof. Dr. Murni **Mahmud**

for your appointment as the **Kulliyyah of Information & Communication** Technology

Kulliyyah of Information & Communication Technology







New line-up for Office Bearers 2023-2025

Assoc. Prof. Dr. Lili Marziana Abdullah

Deputy Dean, Academic & Internationalisation

Dr. Hamwira Yaacob

Deputy Dean, Student Development & Community Engagement

Dr. Zahidah binti Zulkifli

Deputy Dean, Postgraduate, Responsible Research & From us at :

Kulliyyah of Information & Communication Technology







Dr. Noor Azura Binti Zakaria

Head, Responsible Research & Innovation

Dr. Noor Hayani Binti Abd Rahim

Head, Centre for Information Technology Advancement

Kulliyyah of Information & Communication Technology





LEADING THE WAY

Dr. Amir 'Aatieff Bin Amir Hussin

Head, Department of Computer Science

Dr. Mohd Khairul Azmi Bin Hassan

Head, Department of Information Systems

Dr. Sharifah Nur Amirah Sarif Abdullah

Head, Department of Library & Information Science

Kulliyyah of Information & Communication Technology



LEADING THE WAY



Congratulations

Dr. Dini Oktarina Dwi Handayani

Dr. Elin Eliana binti Abdul Rahim

FYP Coordinator (IS)

From us at:

Kulliyyah of Information & Communication Technology



Dr. Zainab Senan Mahmod Attar Bashi

Academic Advisor (CS)

Dr. Marini binti Othman

Academic Advisor (IS)

From us at:

Kulliyyah of Information & Communication Technology







Congratulations on the Appointment of New Barrier



Dr. Ahsiah binti Ismail

Dr. Muna Binti Azuddin

PG Coordinator (IS)

Assoc. Prof. Dr. Adamu Abubakar Ibrahim

PG Coordinator (Consolidated)

Kulliyyah of Information & Communication Technology



Dr. Andi Fitriah Binti Abdul Kadir

Academic Coordinator (CITA)

Dr. Nurhafizah Binti Mahri

Entrepreneurship Coordinator (CITA)

Kulliyyah of Information & Communication Technology







Dr. Nurul Liyana Binti Mohamad Zulkufli

IA Coordinator (CS)

Dr. Mohd Izzuddin Mohd Tamrin

IA Coordinator (IS)

From us at:

Kulliyyah of Information & Communication Technology





Dr. Nor Saadah Binti Md Nor

Resource Centre Coordinator

Prof. Dr. Akram M Z M Khedher

Islamisation of Human Knowledge Coordinator

Dr. Abdul Rafiez Bin Abdul Raziff

Information and Communication Technology Coordinator

Kulliyyah of Information & Communication Technology









Congratulations on the Promotion

Congratulations

SR. ZUYATI MOHAMED

Senior Administrative Assistant Department of Information Systems



Kulliyyah of Information & Communication Technology







ACHIEVEMENTS AND RECOGNITIONS



Copyrighted Works
2022

Copyrighted works 2022

KULLIYYAH OF INFORMATION AND COMMUNICATION TECHNOLOGY

Assistant Professor Dr. Norzariyah Binti Yahya

- Hybrid Agile Model; Combination of Waterfall Model with Scrum Agile Approach as the Hybrid Agile Model Fracticed by Software Engineering Team.
- 2 Sustainable Social Bank (SSB) Architecture

Professor Ts. Dr. Mira Kartiwi

- I.ACMS Ummusalama : Integrated System for Perinatal Depression Manitoring Systems
- 2.ACMS Database Design for Antenatal Depression Monitoring

Associate Professor Ts. Dr. Normi Sham Bt. Awang Abu Bakar

- l Shariah-Compliant Hospital Reporting System (SC-HRS)
- 2.Ecosystem for FimeBank Implementation in Malaysia

Assistant Professor Dr. Nurul Nuha Binti Abdul Molok

I.Pendekar Siber

Assistant Professor Dr. Siti Asma Binti Mohammed

I IIUM Sejahtera Protiling (ISP) version 3

Assistant Professor Dr. Aldrina Binti Mohamed Sofiadin

I.Kulliyyah of Information Communication and Technology (KICT) Framework

Associate Professor Dr. Norsaremah Bt. Salleh

 Self-diagnosed metabolic syndrome algorithm for early prevention of heart disease, strake and obesity complications

Assistant Professor Dr. Akeem Olowolayemo

1.MEdTRIZ Model for Radical Innovation in Education

Assistant Professor Dr. Raini Binti Hassan

1. The Study of COVID-19 Effects in Global Warming Based on Data Science's Modelling and Deployment Techniques

Assistant Professor Ts. Dr. Zahidah Zulkifli

 Ontology model development for a social networking site related to ethical issues based on bin Khaldun's thoughts in al-Muqaddimah.

Assistant Professor Dr. Noor Azura Zakaria

Litearning Disability Assessment System (LeDAS)

Associate Professor Ts. Dr. Amelia Ritahani Ismail

1.P-REST Estimator: An Optimised Software Project Effort Estimation Systems

Assistant Professor Dr. Hafizah Mansor

I.Forent-Vehicle Forensics for car Rental System



Viva Voce















DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE P CS

THESIS TITLE: **INOVATIVE DATA ANALYSIS: ARTIFICIAL** INTELLIGENCE FOR ADVANCED PERSISTENT THREATS DETECTION

> VIVA VOCE DATE: **12TH JUNE 2023**

Congratulations for Completing on Viva Voce

Chairman: Prof. Dr. Akram M Z M Khedher Main Supervisor: Dr. Rawad Abdulkhaleq Abdulmolla Abdulghafor Co-supervisor: Prof. Dr. Imad Fakhri Taha Alyaseen Co-supervisor: Asst. Prof. Dr. Marini Binti Othman Co-supervisor: Dr. Shuhaili Bt. Talib

VIVA VOCE EXAMINERS

Chairperson: Assoc. Prof. Dr. Mohamed Elwathig Saeed Mirghani **INHART, IIUM**

Internal Examiner: Dato' Prof. Dr. Norbik Bashah Bin Idris Department of Information System, KICT, IIUM

External Examiner: Prof. Ts. Dr. Rabiah Binti Ahmad Deputy vice-chancellor, Faculty of Engineering Technology, UTHM

> **Kulliyyah Representative:** Assoc. Prof. Dr. Adamu Abubakar Ibrahim Department of Computer Science, KICT, IIUM

> > OFFICE OF DDPGR, KICT connect.engage.serve

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Mini Viva Department of Library and Information Science (DLIS)



KICT Ibadah Camp 2023 Session 1

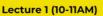






THE THREATS OF MUSLIM UNITY: UNDERSTANDING THE FUNDAMENTAL TEACHINGS OF AHLUSSUNNAH WALJMAAH AGAINST DEVIANT TEACHINGS AND DIFFERENT MAZHAB IN FIQH







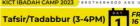
HOW TO STRENGTHEN ISLAMIC BROTHERHOOD AND ACHIEVE UNITY/ ETHICS OF DISAGREEMENTS IN ISLAM







KICT IBADAH CAMP 2023 SROTHERHOOD AND UNITY IN ISL



FRIDAY 16 JUNE 2023

SURAH:

AL-HUJURAT (49): 9-13 AL-IMRAN (3):102-108

























Neurocoach Digital Lab (NDL) Open Day









We cordially invite you to the

Neurocoach Digital Lab (NDL) OPEN DAY

Your mental health is important. Be mindful of it and take steps to care for it.

- Come and join us.
- Insightful meeting with the founder
- NDL services
 EEG assessment demo
- Neurofeedback demo
- Lucky draw & refreshments
- O Neurocoach Digital Lab, KICT
- Block C, Ground Floor Friday, June 9th 2023
- 2:30PM 5:00PM

Contact us at

- neurocoachdigitallab@iium.edu.my
- **©** 0149879956

Kulliyyah of Information & Communication International Islamic University Malaysia P.O. Box 10, 50728 Gombak Kuala Lumpur MALAYSIA





Neurocoach Digital Lab

NDL Service Package

EEG and Alertness

Evaluation of brain activity and brain function

RM 120.00

Brain Training

NFB 1 session RM 20.00 NFB 1 month (10 sessions)

NFB 3 months (30 sessions)

RM 450.00

*including 3 reports

NFB Report

RM 60.00

Contact us at

- neurocoachdigitallab@iium.edu.my
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- 03-6421 3580



ACTIVITY

SWA Audit: Visiting Lab (22 June 2023)

GamesMY







Neurocoach Digital Lab (NDL)







Cyber Range Lab









ACTIVITY

UIA Symposium











KICT Walk 2023











TALK/SEMINAR





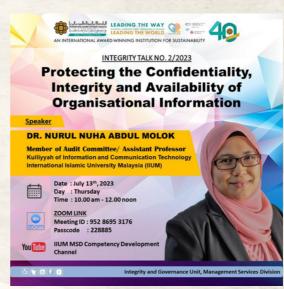












PUBLICATION

(Submission in IREP for June 2023)

- I.Hassan, Azizah and Salleh, Norsaremah and Ismail, Mohd Nasir and Ahmad, Mohammad Nazir and Che Hussin, Ab Razak (2023) <u>Empirical evaluation of continuous auditing system use: a systematic review.</u> International Journal of Electrical and Computer Engineering (IJECE), I3 (I). pp. 796-808. ISSN 2088-8708 E-ISSN 2722-2578
- 2. Mohd Ab Razak, Nur Shuhadah and Mansor, Hafizah and Sharmin, Shaila (2023) <u>A secure framework for vehicle maintenance service using blockchain</u>. In: ICSCA 2023: 2023 12th International Conference on Software and Computer Applications, 23rd 25th February 2023, Kuantan, Pahang, Malaysia
- 3. Sharmin, Shaila and Mansor, Hafizah and Abdul Kadir, Andi Fitriah and Abdul Aziz, Normaziah (2023) Comparative evaluation of anomaly-based controller area network IDS. In: ICSCA 2023: 2023 I2th International Conference on Software and Computer Applications, 23rd 25th February 2023, Kuantan, Malaysia.
- 4.Ashraf, Arselan and Gunawan, Teddy Surya and Arifin, Fatchul and Kartiwi, Mira and Sophian, Ali and Habaebi, Mohamed Hadi (2023) and classification. Indonesian Journal of Electrical Engineering and Informatics (IJEEI), II (1). pp. 286-299. ISSN 2089-3272
- 5. Hashim, Roosfa (2023) Content analysis of papers published in Malaysian Journal of Movement, Health and Exercise (MoHE) between 2013 and 2022. Malaysian Journal of Movement, Health & Exercise, I2 (1). pp. 21-26. ISSN 2600-9404 E-ISSN 2600-9455
- 6. Hashim, Roosfa (2023) Pakar bahasa prolifik. Suara Sarawak, 29 Apr 2023. p. 11.
- 7. Hashim, Roosfa (2023) <u>Penterjemahan global untuk kesejahteraan sejagat.</u> Suara Sarawak, 21 May 2023. p. 11.
- 8. Hashim, Roosfa and Mohd Zabidi, Ahmad Zahiruddin and Nik Mood, Nik Zainun (2023)

 <u>Cabaran projek buku terjemahan IIUM Press sempena KLWBC 2020 dan Pandemik Covid-I9.</u> In: Penterjemahan di Malaysia: cabaran dan pengalaman mutakhir. IIUM Press, Kuala Lumpur, Malaysia, pp. 43-50. ISBN 978-967-491-328-1
- 9. Hashim, Roosfa and Radzali, Saiful Riza and Mokhti, Maswa (2023) <u>Pelbagai isu dan masalah pengurusan dan editorial dalam mendapatkan hak cipta penerbitan bagi buku terjemahan: pengalaman IIUM Press.</u> In: Persidangan Penterjemahan Antarabangsa ke-19, 24-26 May 2023, Bukit Bintang, Kuala Lumpur.
- IO. Hashim, Roosfa and Radzali, Saiful Riza and Mokhti, Maswa (2023) <u>Tren jualan bukubuku terjemahan terbitan IIUM Press 2020-2022.</u> In: Persidangan Penterjemahan Antarabangsa ke-19, 24-26 May 2023, Bukit Bintang, Kuala Lumpur.
- II. Kamarudin, Norman and Hashim, Roosfa (2023) <u>Kupu-kupu or rama-rama? The polemics of the Malay translation for butterflies and moths.</u> In: Persidangan Penterjemah Antarabangsa Ke 19: Global Translation For Rahmatan Lil 'Alamin (24-26 May 2023, Dewan Besar Bunga Raya, Hotel Swiss-Garden, Bukit Bintang, 24-26 May 2023, Bukit Bintang, Kuala Lumpur.