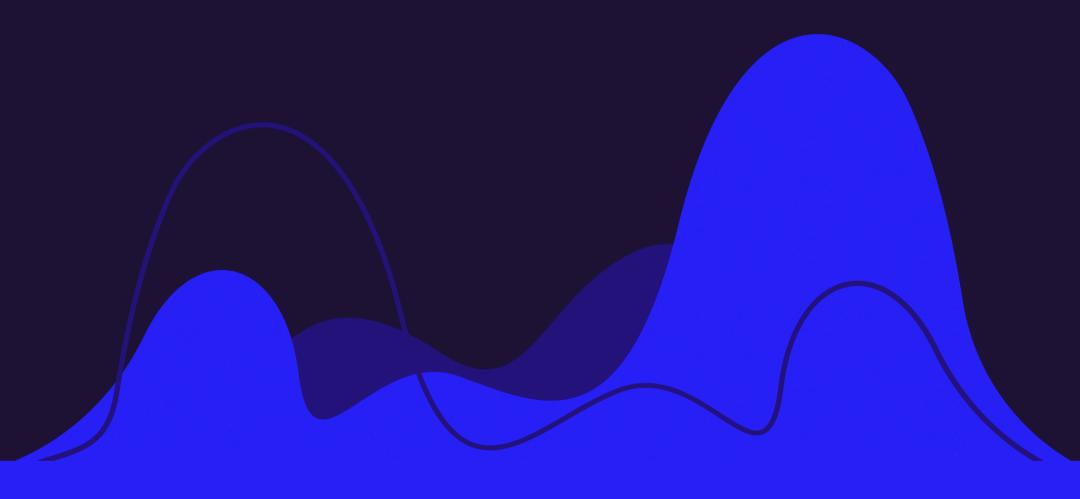




IASDO BULLETIN

SPECIAL ISSUE

ANNUAL REPORT 2023





We are pleased to present the IASDO Bulletin: Special Issue 2024, which highlights key achievements of the Institute for Advanced and Smart Digital Opportunities (IASDO), School of Computing, Universiti Utara Malaysia, throughout the year 2023. Special thanks to all contributors for their valuable input. Your feedback is appreciated as we strive to bring you more impactful content in the future. Thank you for your continued support and interest.

EDITORS

Hapini Awang Nur Suhaili Mansor Nurul Izzah Ghozali

Copyright © 2024 Institute for Advanced and Smart Digital Opportunities (IASDO). All Rights Reserved.

Published by Koperasi Pakar Digital (CodeX) Kedah Berhad
Institute for Advanced and Smart Digital Opportunities(IASDO)
UUM School of Computing
06010 UUM Sintok, Kedah Darulaman
admin@codex.berhad.com.my
0194526027

This work is subjected to copyright. All right are reserved. Whether the whole or part of the material is concerned, specifically the right of translating, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on papers, electronics or any other way, and storage in data banks without either prior written permission of the Publisher or authorization through payment of the appropriate fees as charged by the Publisher. Due care has been taken to ensure that the information provided in this proceeding is correct. However, the publisher bears no responsibility for any damage resulting from any inadvertent omission or inaccuracy of the content in the proceedings.

Library cataloguing – publication data
Institute for Advanced and Smart Digital Opportunities(IASDO), 2024
Bulletin IASDO
eISSN: 2990-9686
Printed in Malaysia.

Table of Contents

- 1.0 Message from Dean
- 2.0 Message from Deputy Dean (Research & Innovation)
- 3.0 Message from Director of IASDO
- 4.0 Board of Governance
- 5.0 Research Fellows
- 6.0 Associate Research Fellows
- 7.0 Vision, Mission & Theme
- 8.0 Roadmap
- 9.0 Publication Achievements
- 10.0 Research Achievements
- 11.0 Consultation
- 12.0 Community Engagement
- 13.0 Other Achievement

A MESSAGE FROM

DEAN



we gather to reflect on the remarkable accomplishments of the Institute for Advanced and Smart Digital Opportunities (IASDO) over the past year, I am filled with immense pride and admiration for the exceptional dedication and achievements of the IASDO team. Their unwavering commitment to excellence has not only elevated our institution but has also set new standards for our collective pursuit of knowledge and innovation. Looking forward, I express my unwavering confidence in the capabilities of the IASDO team. Their success in securing grants and leading groundbreaking sustainability initiatives is a testament to their professionalism and commitment. I assure them of my continued support as we strive to provide the necessary resources for sustained impact. The achievements of IASDO resonate with the core values of our School of Computing, and together, we look forward to an even more prosperous and impactful future.

WARM REGARDS,

PROF. DR. OSMAN B GHAZALI
DEAN OF THE SCHOOL OF COMPUTING
UNIVERSITI UTARA MALAYSIA

A MESSAGE FROM

DEPUTY DEAN (RESEARCH & INNOVATION)



In reflecting on the outstanding accomplishments of the Institute for Advanced and Smart Digital Opportunities (IASDO), I am truly inspired by the innovative spirit and dedication of the team. The past year has seen unprecedented success in research, innovation, and community engagement. I commend the IASDO team for exceeding expectations, from securing substantial grants to spearheading impactful sustainability initiatives. As the Deputy Dean responsible for Research & Innovation, I express my utmost confidence in the capabilities of the IASDO team. Their ability to excel in both the academic and practical aspects of their work is truly commendable. I assure them of my continued support to provide the necessary resources for sustained impact. IASDO's achievements align seamlessly with our commitment to advancing knowledge and fostering innovation, paving ways to SOC to leverage on our collective strengths, particularly Digital Solutions for Community Well-being. As we move forward, let us continue to push the boundaries of research and innovation, further solidifying our position as a center of excellence within Universiti Utara Malaysia.

WARM REGARDS,

ASSOCIATE PROF. DR. HUSNIZA BINTI HUSNI
DEPUTY DEAN (RESEARCH & INNOVATION)
UNIVERSITI UTARA MALAYSIA

A MESSAGE FROM

DIRECTOR



On behalf of the Institute for Advanced and Smart Digital Opportunities (IASDO), I take this opportunity to express my deep appreciation for the achievements of our dedicated team. In line with our goal of providing digital solutions for community wellbeing, the previous year has provided evidence of our commitment to excellence, innovation, and sustainability. I wish to emphasize my unwavering belief in the capabilities of the Their achievements **IASDO** team. in acquiring research/consultations, publications, commercialization, and community engagements demonstrate the strong commitment of our research fellows (RF) and associate fellows (AF). IASDO's diverse accomplishments reflect our commitment to advancing the mission of Universiti Utara Malaysia. Our team also managed establish collaborative networks with industrial to international partners to further improve our visibility as a center of excellence in digital solutions. Last but not least, I would like to take this opportunity to thank our dedicated members of the Board of Governance (BOD) for their valuable guidance for IASDO to go further in the future. Together, we will persist in upholding the values of IASDO and strive towards an even more prosperous and sustainable future. Let us pray for a more promising future in 2024 for IASDO.

WARM REGARDS,

DR. HAPINI AWANG
DIRECTOR OF IASDO
UNIVERSITI UTARA MALAYSIA

BOARD OF GOVERNANCE



PROF. DR. OSMAN GHAZALI



PROF. MADYA DR. HUSNIZA HUSNI



PROF. MADYA TS. DR.
MOHAMAD FADLI ZOLKIPLI



PROF. TS. DR. SUHAIDI HASSAN



PROF. DR. HUDA HJ. IBRAHIM



PROF. DR. AZMAN YASIN



PROF. TS. DR. AZHAM HUSSAIN



PROF. DR. FAUZIAH BAHAROM



PROF. MADYA DR. YUHANIS YUSOF



DR. HAPINI AWANG

RESEARCH FELLOWS

Prof. Dr. Osman Ghazali

Dr. Hapini Awang

Prof. Ts. Dr. Suhaidi B Hassan

Prof. Dr. Huda Haji Ibrahim

Prof. Ts. Dr. Azham Hussain

Prof. Dr. Fauziah Bt Baharom

Prof. Madya Ts. Dr. Norliza Binti Katuk

Prof. Madya Dr. Yuhanis binti Yusof

Dr. Fathey Mohammed Abdulrakeb Mohammed

Prof. Madya Dr. Shahrul Azmi Mohd Yusof





















ASSOCIATE RESEARCH FELLOWS

Dr. Nur Suhaili Binti Mansor

Prof. Madya Dr. Mazni Omar

Ts. Dr. Mohamed Ali b. Saip

Dr. Khuzairi bin Mohd Zaini

Prof. Madya Ts. Dr. Mohamad Fadli bin Zolkipli

Prof. Dr. Azman Yasin

Ts. Dr. Nur Hani Binti Zulkifli Abai

Prof. Madya Dr. Azizi Bin Ab Aziz

Prof. Madya Ts. Dr. Nor Hazlyna binti Harun

Prof. Madya Dr. Mazida Binti Ahmad





















VISION



To be acknowledged as a center of excellence and main reference in digital solutions for community well-being.



MISION

- IMPACTFUL RESEARCH
- COMMUNITY ENGAGEMENT
- PUBLICATION
- CONSULTATION

THEME:

Digital Solution for Commutiy Wellbeing

IASDO ROADMAP



2022-2023 (ECOSYSTEM)

- •Create a conducive ecosystem for research, consultation, and publication.
- •Promote knowledge discovery in niche area.
- •Promote knowledge dissemination from IASDO to community.

2024-2025 (VISIBILITY)

- •Obtain more consultations and engagements with industries and government agencies.
- •Conduct more research training and workshop.



2026-2027 (EMPOWER)

- Consultations and engagements with industries and government agencies.
 - •Research training and workshop.

2028-2029(LEAD)

•Be a leader in smart society research and consultation.



2030 (SUSTAIN)

 Become a major reference for smart society transformation in the region and nation.

PUBLICATION ACHIEVATION



BIL.	PENULIS	TAJUK PENERBITAN	PENERBIT	KATEGORI PENERBITA N
-	Aymen Dheyaa Khaleel Al-Obaidi, Osman B Ghazali, Aqeel Mahmood Jawad, Ayman Mohammed Ibrahim, Massudi Bin Mahmuddin, Ahmed Jamal Abdullah Al-Gburi, Mohammad Najah Mahdi	Pattern Reconfigurable Dielectric Resonator Antenna Using Capacitor Loading For Internet Of Things Applications	International Journal Of Electrical And Computer Engineering	Jurnal
2.	Agus Tedyyana , Osman B Ghazali, Onno W. Purbo	A Real-Time Hypertext Transfer Protocol Intrusion Detection System On Web Server.	Telkomnika (Telecommunication, Computing, Electronics And Control)	Jurnal
3.	Noraini Muhamad Radha, Hapini Bin Awang	The Effectiveness Of Using 'my Grammar Kit' In Teaching Past Tense Irregular Verbs For Year 4 Pupils.	Codex	Prosiding
4.	Isyaku Uba Haruna, Maslinda Binti Mohd Nadzir, Hapini Bin Awang	The Impact Of Quality Factors On Continuous Usage Of E-Taxation Filing Reporting System.	Journal Of Advanced Research In Applied Sciences And Engineering Technology	Jurnal Berindeks
5.	Ramlan Mustapha, Maziah Mahmud, Tengku Nazatul Shima Tengku Paris, Mohamad Sahizam Musa, Hapini Bin Awang, Norhapizah Mohd Burhan	The Factors Of The Drug Addict Relapse In Malaysia: The Experts Views And Consensus.	Open Journal Of Social Sciences	Jurnal
6.	Hapini Bin Awang, Mohd Zaini Zakaria, Mohd Faiz Bin Mohd Yaakob, Nur Suhaili Binti Mansor, Ramlan Mustapha, Nurul Izzah Mohamad Ghozali	Harmonizing Tradition And Technology: A Review Of Tarannum And Its Prospects In Computing Research.	Journal Of Contemporary Social Science And Education Studies	Jurnal
7.	Joharri Bin Shuhaimi, Hapini Bin Awang, Mohd Fairuz Bin Jafar.	Understanding Attitudes Towards Blockchain-Based Assessment System: A Sentiment Analysis Of Form Six Teachers' Views.	Journal Of Contemporary Social Science And Education Studies	Jurnal

8.	Mohd Zaini Zakaria, Hapini Bin Awang, Mohd Faiz Bin Mohd Yaakob, Nur Suhaili Binti Mansor, Ramlan Mustapha, Nurul Izzah Mohamad Ghozali.	The Qari Icons And Their Influences In The Evolution Of Tarannum Art In Kedah: A Historical Review.	Journal Of Contemporary Social Science And Education Studies	Jurnal
9.	Hapini Bin Awang, Nur Suhaili Binti Mansor, Syazatul Natrah Abdul Rahman, Farzana Anis, Pitri Yeni Azwar, Nurul Huda Abd Aziz, Ramlan Mustapha.	Bei Muij Universiti: Disseminating Higher Education Awareness To Indigenous Youngsters.	Journal Of Contemporary Social Science And Education Studies	Jurnal
10	Ramlan Mustapha, Maziah Mahmud, Jazimin Zakaria, Hapini Bin Awang, Mohamad Shhizam Musa.	Exploring The Mass Early Retirement Conflict Among Senior Teachers In Malaysia: A Major Concern To Stakeholder.	Journal Of Islamic, Social, Economics And Development	Jurnal
11.	Ong Shu Xian, Zahurin Bt Mat Aji @ Alon, Nur Haryani Binti Zakaria, Al-Hanisham Bin Mohd Khalid, Hapini Bin Awang.	Belajar Senangjer: A Mobile Application For Illiterate Indigenous Adults.	Multidisciplinary Applied Research And Innovation	Jurnal
12.	Athirah Rosli, Suhaimi Shahrin, Hapini Bin Awang.	A Secure Learning Environment Framework Of Virtual Reality Application For Tvet Education Using Blockchain Technology.	Multidisciplinary Applied Research And Innovation	Jurnal
13.	Azmeera Asfarina Azman, Nur Liyana Mohd Rusli, Hapini Bin Awang, Ahmad Suki Bin Che Mohamed Arif, Nur Suhaili Binti Mansor, Nurulhuda Mohd Salim Lim, Koh Shiau Ling.	Design And Development Of Syspk: A Web-Based System For Managing Audit Documents.	Multidisciplinary Applied Research And Innovation	Jurnal
14.	Syazatul Natrah Abdul Rahman, Hapini Bin Awang, Massudi Bin Mahmuddin, Nur Suhaili Binti Mansor, Nurul Farzana Anis Ahmad, Pitri Yeni Azwar.	Design And Development Of A Web-Based Education Officers' Mentoring Management System (Emms).	Multidisciplinary Applied Research And Innovation	Jurnal
15.	Nur Haryani Binti Zakaria, Tan Eu Jin, Zahurin Bt Mat Aji @ Alon, Hapini Bin Awang, Al-Hanisham Bin Mohd Khalid.	Mobile Application For Promoting Orang Asli Product (Product Asli).	Multidisciplinary Applied Research And Innovation	Jurnal
16.	Nur Liyana Mohd Rusli, Azmeera Asfarina Azman, Hapini Bin Awang, Ahmad Suki Bin Che Mohamed Arif, Nur Suhaili Binti Mansor, Nurulhuda Mohd Salim Lim, Koh Shiau Ling.	The Design And Development Of Sistem Pengurusan Data Pemulihan Khas (Spdpk) Ppd Cameron Highlands.	Multidisciplinary Applied Research And Innovation	Jurnal
17.	Mat Rahimi Bin Yusof, Hapini Bin Awang, Mohd Faiz Bin Mohd Yaakob, Mohd Fairuz Bin Jafar, Mohd Yusri Ibrahim, Pang Lai Chaw.	The Sustainability Of Technology-Aided Leadership Adoption Among School Leaders: If It Could Ever Be This Real Forever.	International Journal Of Evaluation And Research In Education	Jurnal
18	Shelena Soosay Nathan, Nor Laily Hashim, Azham Hussain, Ashok Sivaji, Mohd Affendi Ahmad Pozin	Validating The Usability Evaluation Model For Hearing Impaired Mobile Application	The Science And Information (Sai) Organization	Jurnal
19.	J. Albert Mayan, S.V. Manikanthan, Azham Hussain, S. Nithyaselvakumari, A. Vinnarasi	Clustering Technique For Mobile Edge Computing To Detect Clumps In Transportation-Related Problems	International Journal Of Interactive Mobile Technologies	Jurnal Berindeks
2	Munya Saleh Ba Matraf, Munya Saleh Saeed Ba Matraf , Nor Laily Binti Hashim, Azham Bin Hussain	Visually Impaired Usability Requirements for Accessible Mobile Applications: A Checklist for Mobile E-book Applications.	Journal of Information and Communication Technology	Jurnal SCOPUS Q1
21.	Rashed Ismail Bilal Salem , Hamidi Bin Ismail, Fathey Mohammed Abdualrakeb Mohammed	The Correlation Between Transformational Leadership And Employee Innovation In The Customs Department In The Emirate Of Dubai	South Asian Journal Of Social Sciences And Humanities	Jurnal
22	Norliza Katuk, Norazlina Abd Wahab, Nur Syaedah Kamis	Cryptocurrency Estate Planning: The Challenges, Suggested Solutions And Malaysia's Future Directions Digital Policy, Regulation And Governance.	Emerald	Jurnal

23	Norliza Katuk, Mohamad Sabri Sinal, Mohammed Gamal Ahmed Al-Samman, Ijaz Ahmad	An Observational Mechanism For Detection Of Distributed Denial-Of-Service Attacks. International Journal Of Advances In Applied Sciences (Ijaas)	Institute Of Advanced Engineering And Science (laes)	Jurnal
24	Salah Mortada, Yuhanis Yusof	An Improved Artificial Bee Colony With Perturbation Operators In Scout Bees' Phase For Solving Vehicle Routing Problem With Time Windows	International Journal Of Artificial Intelligence	Jurnal
25 .	Wang Shuai, Yuhanis Yusof	Insulator Fault Diagnosis Based On Multi-objectives Multilevel Thresholding Method And Boost Particle Swarm Optimization	International Journal Of Information Technology (Singapore)	Jurnal
26	Abdullah Almogahed, Mazni Binti Omar, Nur Haryani Binti Zakaria, Muhammad Ghulam, Salman Alqahtani, (2023)	Revisiting Scenarios Of Using Refactoring Techniques To Improve Software Systems Quality	leee Access	Article In Journal- Scopus
27	Nur Haryani Binti Zakaria, Kit Yan Tian, Zahurin Bt Mat Aji @ Alon, Norliza Binti Katuk, Mazni Binti Omar, Abdul Razak B Abd Manaf (2023)	Design And Development Of Self Check: A Mobile Application For Digital Gadgets Addiction And Countermeasures.	Multidisciplinary Applied Research And Innovation, 4(1), 211 - 215	Article In Journal
28	Nur Haryani Binti Zakaria, Serlena A/P Paneerselvam , Zahurin Bt Mat Aji @ Alon, Norliza Binti Katuk, Mazni Binti Omar, Abdul Razak B Abd Manaf, (2023).	Kids Screentime: Mobile Application For Internet Usage Monitoring.	Multidisciplinary Applied Research And Innovation, 1(4), 1 - 4.	Article In Journal
29	Wan Salwahiza Wan Inson, Nur Suhaili Binti Mansor.	Meningkatkan Kemahiran Murid Tahun Lima Untuk Mengenal Pasti Pemboleh Ubah Dengan Menggunakan Kaedah Ujikaji Ringkas.	Codex	Prosiding
30	Nur Suhaili Binti Mansor, Hapini Bin Awang, Mohamad Fadli Bin Zolkipli, Khuzairi Bin Mohd Zaini, Mohammed Ahmed Taiye, Abdulrazak F. Shahatha Al-Mashhadani, Ramlan Mustapha, (2023).	lot Knowledge Among Indigenous Youngsters: A Recent Ten-Year Research Trend.	Journal Of Contemporary Social Science And Education Studies	Jurnal
31.	Hapini Bin Awang, Nur Suhaili Binti Mansor, Syazatul Natrah Abdul Rahman, Farzana Anis, Pitri Yeni Azwar, Nurul Huda Abd Aziz, Ramlan Mustapha, (2023).	Bei Muij Universiti: Disseminating Higher Education Awareness To Indigenous Youngsters.	Journal Of Contemporary Social Science And Education Studies	Jurnal
32	Azmeera Asfarina Azman, Nur Liyana Mohd Rusli, Hapini Bin Awang, Ahmad Suki Bin Che Mohamed Arif, Nur Suhaili Binti Mansor, Nurulhuda Mohd Salim Lim, Koh Shiau Ling, (2023).	Design And Development Of Syspk: A Web-Based System For Managing Audit Documents.	Multidisciplinary Applied Research And Innovation	Jurnal
33	Syazatul Natrah Abdul Rahman, Hapini Bin Awang, Massudi Bin Mahmuddin, Nur Suhaili Binti Mansor, Nurul Farzana Anis Ahmad, Pitri Yeni Azwar, (2023).	Design And Development Of A Web-Based Education Officers' Mentoring Management System (Emms).	Multidisciplinary Applied Research And Innovation	Jurnal
34	Idah Pindai Zengeni, Nur Suhaili Binti Mansor, Noraziah Binti Che Pa, Hapini Bin Awang, (2023).	Dyslexiamap: Distribution Of Dyslexia Students Using Data Visualization And Mapping.	Multidisciplinary Applied Research And Innovation	Jurnal
35	Nur Liyana Mohd Rusli, Azmeera Asfarina Azman, Hapini Bin Awang, Ahmad Suki Bin Che Mohamed Arif, Nur Suhaili Binti Mansor, Nurulhuda Mohd Salim Lim, Koh Shiau Ling.	The Design And Development Of Sistem Pengurusan Data Pemulihan Khas (Spdpk) Ppd Cameron Highlands.	Multidisciplinary Applied Research And Innovation	Jurnal

36.	Nur A'fyfah Binti Zaimy, Mohamed Ali B. Saip, Mazni Fikri	Cybersecurity Threat In Social Media: A Bibliometric Analysis	Borneo International Journal	Jurnal
37.	Nur Suhaili Binti Mansor, Hapini Bin Awang, Mohamad Fadli Bin Zolkipli, Khuzairi Bin Mohd Zaini, Mohammed Ahmed Taiye, Abdulrazak F. Shahatha Al-Mashhadani, Ramlan Mustapha	lot Knowledge Among Indigenous Youngsters: A Recent Ten-Year Research Trend	Journal Of Contemporary Social Science And Education Studies Studies	Jurnal
38.	Ahmad Abrar , Ahmad Suki Bin Che Mohamed Arif, Khuzairi Bin Mohd Zaini	A Systematic Analysis And Review On Producer Mobility Management In Named Data Networks: Research Background And Challenges.	Aej - Alexandria Engineering Journal	Jurnal
39.	Baharudin Bin Osman, Noor Izzah Bte Yahya, Khuzairi Bin Mohd Zaini, Azizol Bin Abdullah	Text Steganography Using The Second Quotient Remainder Theorem And Dark Colour Schemes.	Journal Of Computational Innovation And Analytics	Jurnal
40.	Ang Jin Sheng , Jastini Binti Mohd Jamil, Izwan Nizal Bin Mohd Shaharanee, Mohamad Fadli Bin Zolkipli	Enabling Efficient Business Process Mining Using Flatten Sequential Structure Model	Indonesian Journal Of Electrical Engineering And Computer Science	Jurnal
41.	Nor Naematul Saadah Binti Ismail , Fatin Izzati Binti Fammy Rikzan , Suren A/L Krishnan , Nur A'fyfah Binti Zaimy , Mohamad Fadli Bin Zolkipli	A Review On Adapting Social Engineering Attack As One Of The Penetration Testing Techniques.	International Journal Of Advances In Engineering And Management,	Jurnal
42.	Abdul Kadir Bin Mahamood , Muzdalini Binti Malik , Adi Badiozaman Bin Ruhani , Mohamad Fadli Bin Zolkipli	Cybersecurity Strengthening Through Penetration Testing: Emerging Trends And Challenges.	Borneo International Journal	Jurnal
43.	Amilia Binti Abu Bakar , Mohd Saffuan Bin Che Mansor , Mohd Shamshul Anuar Bin Omar , Mohamad Fadli Bin Zolkipli	Fundamental Study Of Penetration Testing On Mobile Cloud Computing	International Journal Of Advances In Engineering And Management	Jurnal
44.	Nur A'fyfah Binti Zaimy , Mohamad Fadli Bin Zolkipli, Norliza Binti Katuk	A Review Of Hacking Techniques In lot Systems And Future Trends Of Hacking On lot Environment	World Journal Of Advanced Research And Reviews	Jurnal
45.	Fatin Izzati Binti Fammy Rikzan , Mohamad Fadli Bin Zolkipli	A Study Of Phishing Attack Towards Online Banking	Borneo International Journal	Jurnal
46.	Suren A/L Krishnan , Mohamad Fadli Bin Zolkipli	Survey On Sql Injection And Cross Site Scripting Malware Injection Attacks	International Journal Of Advances In Engineering And Management	Jurnal
47.	Abdul Kadir Bin Mahamood , Mohamad Fadli Bin Zolkipli	Critical And Creative Thinking In A Hacker's Work	Borneo International Journal	Jurnal
48.	Muzdalini Binti Malik , Mohamad Fadli Bin Zolkipli	Blockchain Threats: A Look Into The Most Common Forms Of Cryptocurrency Attacks	Borneo International Journal	Jurnal
49.	Mohd Shamshul Anuar Bin Omar , Mohamad Fadli Bin Zolkipli	Fundamental Study Of Hacking Attacks Protection Using Artificial Intelligence (Ai)	International Journal Of Advances In Engineering And Management	Jurnal
50.	Ho Wei Siang, Mohamad Fadli Bin Zolkipli	Study On Cyber Security Issue And Solution In E-Commerce	International Journal Of Advances In Engineering And Management	Jurnal
51.	Amilia Binti Abu Bakar , Mohamad Fadli Bin Zolkipli	Cyber Security Threats And Predictions: A Survey	International Journal Of Advances In Engineering And Management	Jurnal

52.	Mohamad Chozali Hassan, Nor Hazlyna Harun, Amiera Syazlin Md Azhar, Siti Naquiah Md Pauzi, Noor Ashri Ja'afar, Nur Suhaili Mansor	Automated Counting System Based On Watershed Algorithm For Tilapia Fish Egg	leee Explore	leee Conference Proceedings (Accepted And Will Be Presented 17-19julai2023)
53.	Nor Hazlyna Harun, Nurul Atikah Mohd Sharif, Nur Azmielia Muhammad Sharimi, Juhaida Abu Bakar, Hapini Awang And Mohamad Ghozali Hassan.	An Automated Enhancement System Of Dr For Eye Care Facilities	Springer Nature	Conference Proceedings -Communications In Computer And Information Science (Ccis) (Submitted Icoci 2023-Under Review)
54.	Nurul Atikah Sharif, Nor Hazlyna Harun, Yuhanis Yusoff	Particle Swarm Optimization In Color Image Enhancement - A Decades Review	Institute Of Advanced Science Extension (lase)	Jurnal Scopus(Under Review Ke-2)
55.	Nurul Atikah Sharif, Nor Hazlyna Harun, Yuhanis Yusoff	Image Enhancement Optimization On Bright And Dark Spot Of Retinal Fundus Image	Institute Of Advanced Science Extension (lase)	Jurnal Scopus(Under Review Ke-2)
56.	Ghizlane Khababa, Nor Hazlyna Harun, Chu Sin Ning, Ooi Poa Ning	Enhancing Spam Email Classification Using Multilayer Perceptron: Performance Analysis And Comparative Evaluation	leee Explorer	leee Conference Proceedings(Submitted And Under Review), Conference Date: 25-26 October 2023
57.	Nur Syaqinah , Nor Hazlyna Harun, Juhaida Abu Bakar , Soon Chin Fhong, Zalina Zulkifli, Ghizlane Khababa, Asaari Ibrahim	Prediction Of Water Quality Classification For Sungai Sembrong In Johor, Malaysia Using Machine Learning Techniques	Environment Monitoring And Assessment (Springer)	Jurnal Scopus Q2(Under Review)
58.	Nur Syuhada Binti Halid, Mazida Binti Ahmad, Idyawati Binti Hussein @ Hussen	Custom And Order Batik Application System (Cobs).	Multidisciplinary Applied Research And Innovation	Prosiding
59.	Mawarny Md. Rejab ; Mazida Ahmad; Mazni Omar; Syahida Hassan; Nur Hani Zulkifli Abai	Assessment Criteria And Methods Of An Agile- Compliant Performance Appraisal	Aip Conference Proceeding	Prosiding
60.	Mahmood Abdullah Moqbel Bazel, Fathey Mohammed Abdualrakeb Mohammed, Mazida Ahmad, Abdullah O. Baarimah,Mohammed A. Ibrahim	Blockchain-based Healthcare: Trend Mapping through Bibliometric Analysis	IEEE Xplore	Prosiding
61.	Mahmood Abdullah Moqbel Bazel, Mazida Ahmad, Fathey Mohammed Abdualrakeb Mohammed	Blockchain Technology in Malaysian Context: Bibliometric Analysis and Systematic Review	INSIGHT - Indonesian Society for Knowledge and Human Development	Jurnal
62.	Mahmood Abdullah Moqbel Bazel , Fathey Mohammed Abdualrakeb Mohammed, Mazida Ahmad	A Systematic Review On The Adoption Of Blockchain Technology In The Healthcare Industry	Eai Endorsed Transactions On Pervasive Health And Technology	Jurnal
63.	Ahmad Hanis Ahmad Shabli, Mawarny Md. Rejab, Nur Hani Zulkifli Abai, Suwannit Chareen Chit,	Campus Bus Tracking System Using Lora Technology : lot System Testing	The Association For Computing Machinery (Acm)	Prosiding
64.	Nur Hani Zulkifli Abai, Saira Nawaz And Mawarny Md Rejab	Internet Of Things Based Patient-Centered Care Model For Elderly Healthcare: A Conceptual Model	International Workshop On Computer Science And Engineering (Wcse)	Prosiding
65.	Benlahcene, A., Awang, H., Ghozali, N.I.M.	Anti-Corruption Efforts in Algeria: The Role of Civil Society.	Public Policy's Role in Achieving Sustainable Development Goals.	Chapter in Book
66.	Mansor, N.S., Awang, H., Mustapha, R., Ghozali, N.I.M.	Data Security Knowledge On Social Media Among University Students In Malaysia.	Contemp. Soc. Sci. Educ. Stud.	Jurnal
67.	Pozi, M.S.M., Raziff, A.R.A., Awang, H., Mansor, N.S.	A Deep Learning Model to Predict the Lateral Capacity of Monopiles.	Malaysian Society of Animal Production	Prosiding
68.	Bluszcz, A., Tobór-Osadnik, K., Tomiczek, K., Mansor, N.S., Awang, H.	The Use of Geomatics Tools in Critical Infrastructure Management.	Inz. Miner.	Jurnal

69.	Awang, H., Mansor, N.S.	Mari Meneroka Keajaiban loT!	Koperasi Pakar Digital (CodeX) Kedah Berhad, Sintok, Kedah	Modul
70.	Mansor, N.S., Awang, H.	The Rise of the Machines: How the Internet of Things is Transforming Our World.	Koperasi Pakar Digital (CodeX) Kedah Berhad, Sintok, Kedah	Modul
71.	Awang, H., Mansor, N.S., Zaini, K.M., Zengeni, I.P.	IASDO Bulletin (August 2023): The Future of Computing, Through Student Eyes.	Koperasi Pakar Digital (CodeX) Kedah Berhad, Sintok, Kedah	Bulletin
72.	Awang, H., Mansor, N.S., Kamaruddin, S.A., Ghozali, N.I.M.	Prosiding Kolokium Kajian Tindakan Berimpak Tinggi Pejabat Pendidikan Daerah Cameron Highlands, Tahun 2022.	Koperasi Pakar Digital (CodeX) Kedah Berhad, Sintok, Kedah	Buku Prosiding
73.	Awang, H., Mansor, N.S., Zaini, K.M., Zengeni, I.P.	IASDO Bulletin (March 2023).	Koperasi Pakar Digital (CodeX) Kedah Berhad, Sintok, Kedah	Bulletin
74.	Alawiyah Abd Wahab, Sarkin Tudu Shehu Malami, Huda Haji Ibrahim	Motivations, Development Challenges and Project Dissertation in Public Blockchain: A Pilot Study	Springer	Prosiding
75.	Norliza Katuk, Wan Aida Nadia Wan Abdullah, Tito Sugiharto, Ijaz Ahmad	Smart technology: Ecosystem, impacts, challenges and the path forward	Academic Publishing Pte Ltd	Jurnal
76.	Anna Bluszcz, Katarzyna Tobór-Osadnik, Krzysztof Tomiczek, Nur Suhaili Mansor, Hapini Awang	The Use of Geomatics Tools in Critical Infrastructure Management	Polish Mineral Engineering Society	Jurnal SCOPUS Q3
77.	Mazzlida Mat Deli, Hapini Awang, Nur Suhaili Mansor, Shehu Malami Sarkin Tudu	Exploring the Effect of School Authority Support on the Intention to Utilize Virtual Learning Environment from Teachers' Perspectives	Zhongguo Hangtian Gongye Zonggongsi	Jurnal SCOPUS
7 8.	Hapini Awang, Mazzlida Mat Deli, Nur Suhaili Mansor, Shehu Malami Sarkin Tudu	School Authority Supports and Teacher's Continuous Intention to Use Virtual Learning Platforms: A Multi-Group Analysis	Zhongguo Hangtian Gongye Zonggongsi	Jurnal SCOPUS
79.	Hapini Awang, Nur Suhaili Mansor, Ramlan Mustapha	Higher Education in The Digital Age: Assessing the Role of Mobile Apps in Campus Life	Academic Inspired Network	MyCite
80.	Nur Suhaili Mansor, Hapini Awang, Ramlan Mustapha, Nurul Izzah Mohamad Ghozali	Data Security Knowledge On Social Media Among University Students In Malaysia	UITM Pahang	Jurnal
81.	Mustapha, R., Awang, H., Ibrahim, N., Nasir, N. N. A., & Rahman, A. A.	Intention To Purchase of Halal Food Among Pahang Non-Muslim Consumer: Structural Equation Modelling Approach.	CLM PUBLISHING RESOURCES	Jurnal
82.	Zakaria, M. Z., Awang, H., Mansor, N. S., & Mustapha, R.	Assessing Craduate Marketability: A Case Study of The Quranic and Multimedia Integrated Program.	CLM PUBLISHING RESOURCES	Jurnal
83.	Mustapha, R., Paris, T. N. T., Awang, H., Malkan, N. A., & Mahmud, M.	The 10s solution in dealing with grade inflation in higher education: Does it make sense?	Journal of Islamic, Social, Economics and Development	Jurnal MyCite
84.	Yamin, F. M., Ishak, W. H. W., Awang, H., Nawi, N. S. M., Morad, M. tajuddin, & Samsulkamal, M. H. S.	Isu Kemiskinan Digital Dalam Kalangan Pendidik Luar Bandar Di Negeri Kedah.	Persidangan Kebangsaan Ekonomi Malaysia Ke 16	Prosiding
85.	Benlahcene, A., Awang, H., & Ghozali, N. I. M.	Rethinking Anti-Corruption Efforts in Algeria: The Role of Civil Society.	IGI Global	Chapter in Book (SCOPUS)
86.	RG Cuntur Alam , Huda Ibrahim and Ismail Rakip Karas	Key Issues in Cybersecurity Implementation in Government Agencies: A Case Study in Jakarta Smart City	ICOCI 2023	Proceedings

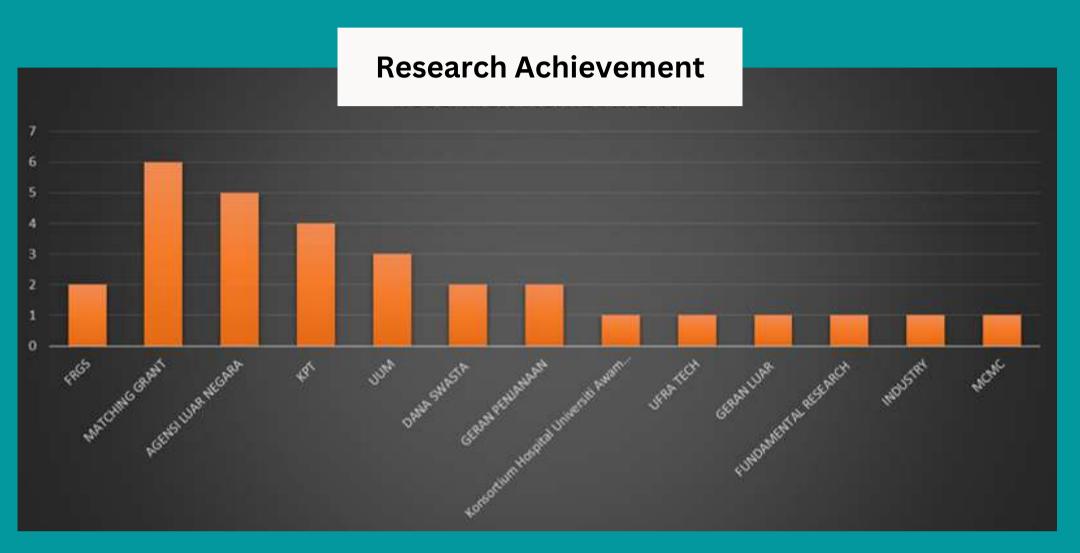
RESEARCH ACHIEVIMENT

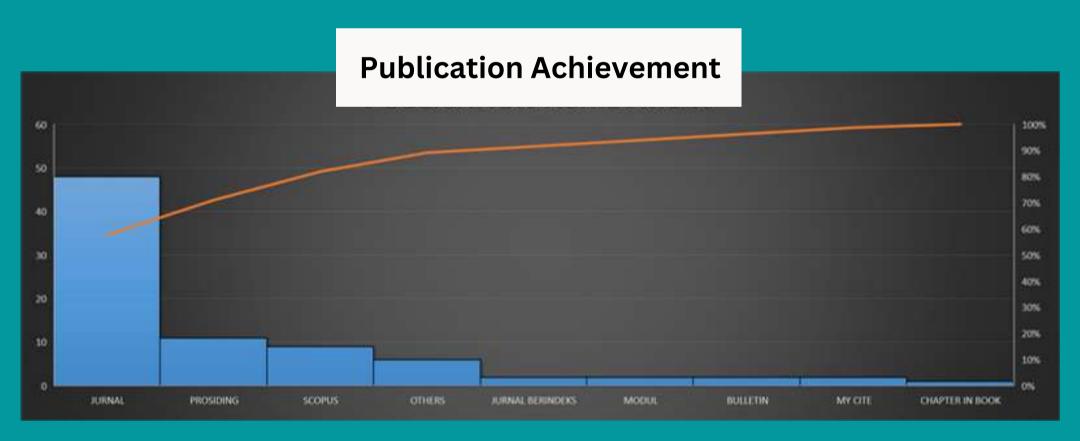


BIL.	KETUA PENYELIDIK/PR OJEK	TAJUK PENYELIDIKAN	TEMPOH PENYELIDIKAN	AGENSI PENAJA	JUMLAH PERUNTU KAN (RM)
1.	Dr. Hapini Awang	AN E-PARTICIPATION SUCCESS MODEL FOR IMPROVING MALAYSIAN E-GOVERNMENT SERVICES THROUGH SOCIAL MEDIA PLATFORMS	2 Tahun	FRGS	63,000.00
2.	Dr. Hapini Awang	COMMUNITY'S ADOPTION OF HEALTHCARE INFORMATION SYSTEM: ANALYSIS OF POST-PANDEMIC BEHAVIOUR	2 Tahun	Matching Grant (UUM-UNIKOM)	20,000.00
3.	Dr. Hapini Awang	TRANSFORMASI DIGITAL DALAM KALANGAN ANAK-ANAK PERKIM: KAJIAN KEBERKESANAN PROGRAM PEMINDAHAN PENGETAHUAN ICT MELALUI PENDEDAHAN ALAM UNIVERSITI	6 Bulan	AGENSI LUAR (DALAM NEGARA) SWASTA - Telekom Malaysia	5,000.00
4.	Dr. Hapini Awang	SUPPORTING QUALITY EDUCATION: AN EXPLORATION OF IOT AWARENESS AMONG INDIGENOUS YOUNGSTERS IN CAMERON HIGHLANDS	1 Tahun	Geran Penjanaan	10,000.00
5.	Prof. Ts. Dr. Azham Hussain	PELAN STRATEGIK KONSORTIUM HOSPITAL UNIVERSITI AWAM MALAYSIA 2022-2026	1 tahun	Konsortium Hospital Universiti Awam Malaysia	42,280.00
6.	Prof. Ts. Dr. Azham Hussain	THE DEVELOPMENT OF REAL-TIME SOIL PH MONITORING DASHBOARD FOR BACK-END PHRMU	1 Tahun	UFRA Tech Sdn Bhd	10,000.00
7.	Prof. Ts. Dr. Azham Hussain	IP 3: SISTEM IOT - "MUSCLING THE MUSSELS FRAMING COMMUNITY PROJECT" DI KUALA SUNGAI MUDA, KEDAH	5 Tahun	AGENSI LUAR (DALAM NEGARA) AWAM TERAJU	169,428.00
8.	Dr. Fathey Mohammed Abdualrakeb Mohammed	UNDERSTANDING OF THE FACTORS INFLUENCING YOUNG FOLLOWERS OF EXTREMISM CONTENT IN SOCIAL MEDIA: A MODEL OF EXTREMISM BEHAVIOR	1 Tahun	Geran Luar	11,100.00
9.	Prof Madya. Dr. Fauziah Bt Baharom	TADBIR URUS SISTEM PENGUMPULAN DATA IPTA, SISTEM KAJIAN PENGESANAN GRADUAN DAN HUB RUJUKAN GRADUAN	1 Tahun	Kementerian Pendidikan Tinggi (KPT)	2,600,000. 00

10.	Prof Madya. Dr. Fauziah Bt Baharom	A NEW BIG DATA QUALITY EVALUATION MODEL (BIGQEM) BASED ON PRAGMATIC LEAN MANAGEMENT	3 Tahun	Kementerian Pendidikan Tinggi (KPT)	118,700.00
n.	Prof. Madya. Dr Yuhanis Binti Yusof	AN IMPROVED HIERARCHICAL-BASED OBJECT RECOGNITION BASED ON CONVOLUTIONAL NEURAL NETWORK WITH SHUNT CONNECTION FOR THE VISUALLY IMPAIRED	2 Tahun	Kementerian Pendidikan Tinggi (KPT)	69,200.00
12.	Prof. Dr. Azman Yasin	GEOMATICS FOR DISASTER RISK REDUCTION / GEODRR	2 Tahun	AGENSI LUAR (LUAR NEGARA)	431,817.42
13.	Dr. Nur Suhaili Mansor	POTENTIAL AGRICULTURAL LAND SUITABILITY BY VISUALIZATION USING COLLABORATIVE AUGMENTED REALITY WITH GEOGRAPHIC INFORMATION SYSTEM (AR-GIS)	2 Tahun	Matching Grant (UUM- UNIKOM)	20,000.00
14.	Dr. Nur Suhaili Mansor	KNOWLEDGE TRANSFER OF IOT UTILIZATION AND BENEFITS FOR PRIMARY SCHOOL PUPILS IN REMOTE RURAL AREA	1 Tahun	UNIVERSITI	10,000.00
15.	Ts. Dr. Mohamed Ali Saip	SOCIO-POLITICAL ANALYSIS SYSTEM	1 Tahun	AGENSI LUAR (DALAM NEGARA) SWASTA (DREAMEDGE)	10,000.00
16.	Ts. Dr. Mohamed Ali Saip	A BIG DATA ANALYTICS MODEL FOR IMPROVING EDUCATOR'S DATA LITERACY VIA ONLINE ACADEMIC PORTFOLIO	3 Tahun	FUNDAMENTAL RESEARCH GRANT SCHEME	119,000.00
17.	Prof Madya. Ts. Dr. Mohamad Fadli Zolkipli	A NEW MODEL OF NETWORK STREAMING DATA TO CLASSIFY HIGH RISK OBJECTS FOR CYBER THREAT INTELLIGENCE	3 Tahun	FRGS	85,380.00
18.	Prof Madya. Ts. Dr. Mohamad Fadli Zolkipli	HOLISTIC DESIGN OF CYBER THREAT INTELLIGENCE MODEL BASED ON EXTERNAL LANDSCAPE	1 Tahun	Industry	10,000.00

19.	Ts. Dr. Nur Hani Binti Zulkifli Abai	PUBLIC AND GOVERNMENTAL SECTOR ADOPTION OF DIGITAL SIGNATURE USAGE FOR E-GOVERNMENT INITIATIVES	01/06/2019 - 14/02/2023 (3 TAHUN 8 BULAN)	мсмс	10,000.00
20.	Ts. Dr. Nur Hani Binti Zulkifli Abai	GPS-BASED CAMPUS BUS TRACKING SYSTEM FOR UNIVERSITI UTARA MALAYSIA	01/11/2022 - 31/07/2023 (9 BULAN)	UUM	20,000.00
21.	Ts. Dr. Nur Hani Binti Zulkifli Abai	AN IOT BASED SMART PATIENT- CENTERED CARE MODEL FOR ELDERLY	01/09/2019 – 30/06/2023 (3 TAHUN 9 BULAN)	КРТ	30,000.00
22.	Ts. Dr. Nur Hani Binti Zulkifli Abai	PENGURUSAN DOKUMENTASI PROJEK PERISIAN	01/08/2022 - 1/07/2023 (1 TAHUN)	DANA SWASTA	45,440.00
23.	Ts. Dr. Nur Hani Binti Zulkifli Abai	ROBOTIC PROCESS AUTOMATION IN FINANCIAL SYSTEM IN TOURISM MALAYSIA	01/10/2022 - 30/109/2023 (1 TAHUN)	DANA SWASTA	88,800.00
24.	Prof. Dr. Huda Haji Ibrahim	SUSTAINABLE DEVELOPMENT GOALS IN JOURNALISM REPORTING/SDGSJR	01/01/2020- 14/11/2023 (4 TAHUN)	AGENSI LUAR (LUAR NEGARA)	490,462.40
25.	Prof. Madya Ts. Dr. Norliza Katuk	DEFENDING AGAINST PHISHING ATTACKS: EMPOWERING UUM STUDENTS WITH CYBERSECURITY AWARENESS	15/11/2023 - 14/11/2025 (2 TAHUN)	UUM (GRAD)	15,000
26.	Dr. Nur Suhaili Mansor	GIS MOBILE APPLICATION MODEL TO SUPPORT SUSTAINABLE EDUCATION OF B40 CHILDREN: A GIS- BASED APPROACH TO GEOGRAPHICAL PATHWAY ANALYSIS	22/10/2023 - 21/10/2025 (2 TAHUN)	Matching Grant (UUM-AIU)	20,000
27.	Prof. Madya. Dr. Mazida Ahmad	DIGITAL OPPORTUNITIES FOR SOCIO-ECONOMIC EMPOWERMENT OF B40 ENTREPRENEURS	22/10/2023 - 21/10/2025 (2 TAHUN)	Matching Grant (UUM-AIU)	20,000
28.	Prof. Madya. Dr. Mazida Ahmad	MOBILE BASED IDENTIFACATION OF BATIK AUTHENCITY USING MATCHING ALGORITHM	1/1/2021 - 29/06/2023 (3 TAHUN)	Matching Grant (UUM-UNIKU)	10,000
29.	Prof. Dr. Azman Yasin	A CRITICAL SUCCESS FACTORS MODEL FOR INDIVIDUAL SPORT ATHELETES TALENT DEVELOPMENT IN MALAYSIA AND INDONESIA	01/09/2020 - 29/06/2023 (3 TAHUN)	Matching Grant (UUM-UPI)	10,000





COMMUNITY ENGACEMENT



1.	Program IoT Awareness bersama masyarakat orang asli V2	3 Jun - 3 Ogos 2023	-	Dr. Hapini Awang
2.	Program pemindahan pengetahuan ICT bersama anak- anak PERKIM	16 September - 28 Oktober 2023	-	Dr. Hapini Awang
3.	Taklimat Kajian Pengesanan Graduan (SKPG) Kementerian Pendidikan Tinggi Bagi Tahun 2023	7/5/2023	-	Prof Madya. Dr. Fauziah Bt Baharom
4.	Mesyuarat Teknikal Penghantaran Data MyMoheS	6/26/2023	-	Prof Madya. Dr. Fauziah Bt Baharom
5.	Mesyuarat Teknikal Penghantaran Data MyMoheS	6/27/2023	-	Prof Madya. Dr. Fauziah Bt Baharom
6.	Bengkel Penambahbaikan Sistem JOBMATCHING@GREaT Dan Repositori Industri	3/20/2023	-	Prof Madya. Dr. Fauziah Bt Baharom
7.	Bengkel Model Data Raya SKPG	3/6/2023	-	Prof Madya. Ts. Dr. Nor Hazlyna Harun
8.	Webinar Title: Public Health And Water Quality In Malaysia Context	24JULAI2023 (2.30-5 ptg.)	-	Prof Madya. Ts. Dr. Nor Hazlyna Harun
9.	Membawa masuk pelajar Phd. dari Universiti Lancang Kuning (INDONESIA) -3 orang Sekolah Tinggi Teknologi Dumai - Dumai (INDONESIA)-3 orang Politeknik Negeri Bengkalis - Bengkalis (INDONESIA) – 1 orang ke SOC. Di bawah penyeliaan 5 research fellow dari Makmal Data Sains.	Pendaftaran pada Januari 2023	-	Prof Madya. Ts. Dr. Nor Hazlyna Harun

COMMUNITY ENGACEMENT



10.	Series Talk For Postgraduate Session Invitation Title: Intelligent Optimization Algorithms for the QoS Uncertainty-aware Web Service Composition Hybrid online dan bersemuka	26 June 2023 (Monday) 11:30 am- 1 pm	-	Prof Madya. Ts. Dr. Nor Hazlyna Harun
11.	Smart Cities Project Management Seminar	1 hari 20 June 2023	-	Prof. Dr. Huda Haji Ibrahim
12.	Lawatan Prof Jose, USC ke SOC (Universidad Santiago de Compostela, Spain)	25/6 – 29/6/2023		Prof. Madya. Dr. Mazni Omar
13.	3rd Study Visit, Project Meeting and Workshop of The Erasmus+ Program (Sustainable Development Goals)	4/9/2023 - 8/9/2023	-	Prof. Dr. Huda Haji Ibrahim Prof. Dr.Azman Yasin Prof. Madya Dr. Mazni Omar
14.	Majlis Pengukuhan Profesor di Universitas Pasundan, Bandung.	18/11/2023	-	Prof. Dr. Huda Haji Ibrahim
15.	Perbincangan pengisian MOU di Universitas Komputer Indonesia (UNIKOM), Bandung.	17/11/2023		Prof. Dr. Huda Haji Ibrahim
16.	Perbincangan pengisian MOU di Universitas Sangga Buana, Bandung.	19/11/2023	-	Prof. Dr. Huda Haji Ibrahim
17.	Guest speaker for The Postgraduate Enhancement Series 3/2023. Title :Why Need Proposal Defense?	16/11/2023	-	Prof. Dr. Huda Haji Ibrahim

SYNERGIZING BRILLIANCE IASDO AND TIMBRAINSTORMING UNITE FORAGAME-CHANGING COLLABORATION









May 31, 2023 - The Institute for Advanced and Smart Digital Opportunities (IASDO) took a significant step towards driving positive change as its members, along with IASDO's Advisor, Prof. Huda Ibrahim, Director, Dr. Hapini Awang, and Deputy Director, Dr. Nur Suhaili Mansor convened at TMpoint, Alor Setar. The purpose of their visit was to engage in a productive brainstorming session with Encik Yusof bin Omar, General Manager of State Regulatory and Engagement at Telekom Malaysia Berhad Perlis & Kedah, accompanied by Datin Noridah Bachik (Public Relations Office Manager) and Mr. Mohd Zawawi bin Ramli (Manager).

The objective of the session revolved around exploring innovative solutions and strategies to propel education, community development, and asset protection to new heights. Both parties expressed immense satisfaction with the fruitful brainstorming session, as it successfully accomplished its intended goals of generating impactful ideas and fostering a collaborative atmosphere. Both parties emphasized their commitment to translating the outcomes of the brainstorming session into tangible actions. They expressed the importance of continued collaboration, implementation of the ideas generated, and the positive effects they hope to achieve for the community, industries, and the nation as a whole.

EMPOWERING PERKIMYOUTH THROUGH DIGITAL TRANSFORMATION: A GLIMPSEINTO KNOWLEDGE SHARING ACTIVITIES



The "Transformasi Digital Dalam Kalangan Anak-Anak PERKIM" event, organized in collaboration with Pertubuhan Kebajikan Islam Malaysia (PERKIM), successfully equipped 45 youths with essential ICT skills through engaging sessions from August to November 2023. Led by the IASDO lab, the program covered Microsoft Office, Canva, Filmora, and website building, targeting primary to high school students to bridge the digital divide. IASDO members served as dedicated educators, incorporating hands-on activities for effective learning. The event concluded with a special tour of UUM's facilities, rewarding participants for their active involvement. Driven by the tireless efforts of the IASDO team, the initiative underscores the transformative impact of knowledge-sharing and digital education, empowering youth for success in the digital age and fostering a brighter, more proficient future.



IOTEXPLORATION PROGRAM WITH THE CAMERON HIGHLANDS ORANG ASLI COMMUNITY PHASE2



From June 3rd to July 3rd, the Institute for Advanced and Smart Digital Opportunities (IASDO) and School of Computing (SOC) undertook the second phase of "Explorasi IoT Bersama Murid Orang Asli Sekolah Kebangsaan Telanok, Cameron Highlands." This ongoing initiative reflects a steadfast commitment to promoting awareness and understanding of the Internet of Things (IoT) among Orang Asli students, fostering digital literacy and empowerment within the community. With the participation of 30 enthusiastic students, IASDO members, including Shehu Malami Sarkintudu and guest expert Dr. Aishah, shared insights on IoT and the role of sensors. Facilitators Nurul Izzah Mohamad Ghozali, Isyaku Uba Haruna, and Ismail Bello created a vibrant learning environment, encouraging students to envision and create digital solutions. The event concluded with expressions of gratitude, IASDO handing gifts to the students, symbolizing empowerment and encouragement. This successful initiative highlights the transformative potential when knowledge and enthusiasm intersect, equipping Orang Asli students with digital skills for a promising future. IASDO Lab looks forward to continuing its mission, nurturing digital literacy, and fostering empowerment within communities, recognizing the limitless possibilities at the intersection of technology and human progress.









RESEARCH DISCUSSION AND FACULTY CONFERENCE AT UNIVERSITAS KOMPUTER INDONESIA, BANDUNG

On July 21, 2023, two researchers from IASDO UUM, Dr. Hapini Awang and Dr. Suhaili Mansor, engaged in a research discussion with several researchers from UNIKOM Indonesia, including Alif Finandhita, Dr. Hanhan Maulana, Richi Dwi Agustia, and Sufa'atin. This research discussion was part of the ongoing efforts between UUM and UNIKOM to foster academic and research collaboration, aiming to advance knowledge and contribute to community development on a broader scale.



July 22, 2023, UNIKOM Indonesia organized a faculty conference titled "Unleashing the Power of AI: Transforming Raw Data Analysis from Agencies and Industries," attended by UUM researchers Dr. Hapini Awang, Gs. Dr. Nur Suhaili Mansor, and Associate Professor Ts. Dr. Nor Hazlyna Harun from IASDO, as well as Associate Professor Ts. Dr. Mohamad Ghozali Hassan from STML. The conference explored the potential of artificial intelligence (AI) in data analysis, fostering the exchange of knowledge and discussing practical applications across various industries. The opening remarks were delivered by Associate Professor Dr. Herman S. Soegato, the dean of FTIK UNIKOM, and UNIKOM lecturer Ednawati Rainarli moderated the discussion, providing an optimistic outlook for future collaboration and advancements in AI research and applications. The conference demonstrated the commitment of both institutions to stay at the forefront of technological progress and academic collaboration.





"FOSTERING ACADEMIC COLLABORATION: UNIVERSITAS MUHAMMADIYAH JAKARTAS SPECIAL VISIT TO IASDO IN MALAYSIA"





On November 1, 2023, the Institute for Advanced and Smart Digital Opportunities (IASDO) received a special visit from representatives of Universitas Muhammadiyah Jakarta (UMJ). This goodwill visit aimed to strengthen academic collaboration between the two institutions in the fields of education and research. During the visit, Dr. Pipit Novita, a representative from UMJ, had the opportunity to discuss various issues related to education, research, and community development with the director and deputy director of IASDO SOC UUM, Dr. Hapini Awang and Dr. Nur Suhaili Mansor. The collaboration between the two universities is expected to bring significant benefits to students and researchers from both countries, contributing to the advancement of knowledge and understanding between different cultures. This goodwill visit marks an important step in strengthening the relationship between Malaysia and Indonesia in the field of research related to e-learning and community service.

TECHBRIDGES: USU DELEGATION EMBRACED WITH WARMTHAND COLLABORATION AT SCHOOLOFCOMPUTING





12 December 2023- A cordial welcome was extended to a delegation from Universitas Sumatera Utara (USU), Medan, Indonesia, in the spirit of academic collaboration and knowledge sharing. Dr. Eng Ade Candra, a respected lecturer from USU, led the group, demonstrating a commitment to building academic ties across institutions. The reception committee from the School of Computing included Dr. Hapini Awang, Director of IASDO, Gs. Dr. Nur Suhaili Mansor, Deputy Director of IASDO, Dr. Khuzairi bin Mohd Zaini, Coordinator of the master's Programme in Cybersecurity, Associate Prof. Ts. Dr. Mohamad Fadli bin Zolkipli, Deputy Dean of Student Affairs and Alumni, and Prof. Ts. Dr. Suhaidi B Hassan, a distinguished member of the IASDO Board of Governance.

The meeting provided an enriching venue for the sharing of ideas and the discovery of potential collaborations in computer science and information technology. The discussions focused on the most recent breakthroughs in cybersecurity, research methodology, and opportunities for collaborative academic projects between the schools. This meeting not only illustrates both schools commitment to academic greatness, but it also lays the framework for future collaborations that promise to enrich the academic landscape with shared insights and technological developments The School of Computing is excited to nurture this new relationship and anticipates beneficial collaborations that will benefit the academic community.

"AISRED BENCHMARKING VISIT TO IASDO"



14 December 2023- Dr. Yurita Yakimin, a distinguished researcher from AISRED (Accounting Information Systems Research and Development Institute), organised a benchmarking visit in order to foster collaborative learning and exchange best practices, marking a significant step in enhancing academic ties and knowledge exchange within the technological sphere. Dr. Yurita was accompanied by two IASDO luminaries: Dr. Hapini Awang, Director of IASDO, and GS Dr. Nur Suhaili Mansor, Deputy Director. The tour included a series of stimulating discussions, knowledge-sharing sessions, and immersive experiences that allowed both sides to share expertise, explore prospective partnership possibilities, and get vital insights into cutting-edge technology breakthroughs. This benchmarking visit not only demonstrates AISRED and IASDO's dedication to continual development, but it also lays the groundwork for new collaborations that promise to raise the bar for technological education and research projects.

The collaborative spirit demonstrated during this benchmarking tour demonstrates the joint commitment to promoting technology education and innovation in a rapidly changing global landscape.

COLLABORATIVE TALKS INITIATE ICT TRAINING PROGRAM FOR SERI PACIFIC STAFF®



9 December 2023- In a proactive move towards enhancing technological skills and proficiency, discussions commenced for an ICT Training Program tailored for Seri Pacific staff. The meeting, spearheaded by En Razmi, Director of Operations at Seri Pacific, saw enthusiastic participation from esteemed representatives, including Prof. Dr. Huda Hj Ibrahim, a Board of Governance member from IASDO School Of Computing UUM.

The focal point of the discussions revolved around devising a comprehensive ICT Training Program catered specifically to the needs and objectives of Seri Pacific's staff. En Razmi's commitment to upskilling the workforce and embracing technological advancements resonated throughout the conversation. This initiative signifies a joint commitment to foster continuous learning and professional development within Seri Pacific, emphasizing the significance of technological proficiency in today's competitive business landscape. The collaboration between UUM and Seri Pacific holds the promise of empowering staff members with the requisite skills to thrive in a digitally driven environment, ultimately contributing to the company's growth and success.

PISCUSSIONS UNVEIL COLLABORATIVE ICT PROGRAM FOR HOMELESS CHILDREN IN CHOWKIT, KLP

8 December 2023- In a heartfelt initiative aimed at empowering homeless children in Chow Kit, Kuala Lumpur, a collaborative discussion unfolded to establish an impactful ICT program. Leading the conversation were notable personalities, including Dr. Aizan from UUMKL, who spearheaded the endeavor. Representing UUM were Prof. Dr. Huda Hj Ibrahim, a Board of Governance member, and Dr. Hapini Awang, Director of IASDO, both committed to contributing expertise and support to this noble cause. Additionally, GS Dr. Nur Suhaili Mansor, Deputy Director of IASDO, lent invaluable insights and direction to the discussion.

The core focus of the conversation revolved around designing and implementing an ICT program tailored specifically for homeless children in Chow Kit. Recognizing the transformative power of technology, the collaborative effort aims to provide these children with access to educational resources, digital literacy, and avenues for personal development. This initiative marks a significant step towards bridging the digital divide and empowering marginalized communities. The collaborative effort between UUM and stakeholders aims not just to introduce technology but to harness its potential in creating a brighter future for these children, fostering skills and opportunities that transcend their current circumstances.



"VISITATION BY STUDENTS FROM THE SCHOOLOF ECONOMICS, FINANCE, AND BANKING"









23rd November 2023- The Institute for Advanced and Smart Digital Opportunities (IASDO) has received a visit from 2 students from the School of Economics, Finance and Banking which aims to get views from IASDO members regarding The Future of Artificial Intelligence (AI). The students, namely Wan Nur Izzah Hazrin binti Wan Hilman and Arisya Syakila binti Abd Wahab, participated in a discussion session with members from IASDO. The main purpose of this visit is to frame an insight into the influence of AI on the economy, finance, and banking. The students have actively exchanged opinions and asked deep questions related to the aspects, economic effects, and implications of AI in the future of this industry. This visit gives students the opportunity to gain insight from various perspectives, including ethics, wisdom, and the opportunities offered in the field of Artificial Intelligence (AI). We hope this visit inspires the students to continue their studies in this field.

"HANDOVER OF BPD SYSTEM AND IOTKITTO SK





12 December 2023- Amidst the rapidly evolving landscape of technological education, a pivotal event recently unfolded, heralding a transformative step towards innovation and empowerment. Titled "Handover of BPD System and IoT Kit to SK Telanok, this event orchestrated by the esteemed School of Computing brought together a consortium of distinguished figures from academia, including luminaries such as Dr. Hapini Awang, Director of IASDO, Dr. Nur Suhaili, Deputy Director of IASDO, PM Dr. Nor Hazlyna Harun, Dr. Juhaida Abubakar, and PM Dr. Mohamad Ghozali Hassan from STML. This convergence of expertise and dedication marked a significant milestone in fostering technological advancement and educational enrichment.

The event comprised three key activities that underscored the commitment to technological empowerment. Firstly, there was the delivery of IoT kits as part of a

comprehensive program. Secondly, the transfer of the BPD system, a pivotal technological infrastructure, marked a significant step in enhancing the school's technological capabilities. Lastly, collaborative group activities were conducted, fostering an interactive engagement between the faculty members and the students of SK Telanok. This initiative not only underlines the commitment of the School of Computing to advance technological education but also signifies a collaborative effort to empower students with hands-on experience and innovative tools, ensuring a robust foundation for their technological journey.





CLOSING CEREMONY MARKS SUCCESSFULICT EXPLORATION PROGRAM



04th December 2023 - The Closing Ceremony of an extensive ICT Exploration Program with PERKIM Alor Setar students witnessed a collaborative effort between TM Kedah Perlis, Institute for Advanced and Smart Digital Opportunities (IASDO), School of Computing, Universiti Utara Malaysia (UUM), and Pertubuhan Kebajikan Islam Malaysia (PERKIM) Alor Setar, Kedah. The event, graced by representatives, celebrated prominent figures and the accomplishments and highlighted the impact of this joint initiative. The esteemed attendees included PERKIM children alongside distinguished figures such as YBhg Dato' Wira Mansor Haji Ismail, Chairman of PERKIM Kedah State, and Datin Hajah Aishah bt Ibrahim, Vice Chairman of PERKIM. Also present were Hj. Turedy bin Haji Abdullah, PERKIM's Secretary, Mr. Yusof bin Omar, Chief Manager of State Regulatory & Engagement at TM Kedah & Perlis, and Datin Noridah Bachik, the Public Relations Office Manager. Representing UUM, notable figures included Associate Prof. Ts. Dr. Mohamad Fadli bin Zulkifli, Deputy Dean for Student Affairs & Alumni School of Computing, Dr. Hapini Awang, Director of IASDO, and Gs. Dr. Nur Suhaili Mansor, Deputy Director of IASDO, alongside Prof. Dr. Huda Haji Ibrahim, a member of the board of governance IASDO.

The ceremony featured significant activities, including the generous laptop donation from TM to PERKIM, symbolizing a commitment to empowering educational pursuits. Tokens were also presented to UUM and TM, acknowledging their pivotal roles in the program's success. Most notably, the event culminated in the distribution certificates to the program participants, recognizing their dedication and achievements throughout the ICT exploration endeavor. The collaborative efforts between these esteemed organizations and the enthusiastic participation of the students underscored the importance of fostering technological exploration and education, setting a promising precedent for future initiatives aimed at empowering communities through ICT advancements.

"EMPOWERING EDUCATORS: SUCCESSFUL IMPLEMENTATION OF A CONTINUOUS GUIDANCE AND ACTION RESEARCH PROGRAMIN CAMERON HIGHLANDS"



A knowledge-sharing and continuous guidance program with primary and secondary school teachers in Cameron Highlands and the Cameron Highlands District Education Office (PPDCH) was successfully conducted from June 1 to September 1, 2023, through the collaboration between the Institute for Advanced and Smart Digital Opportunities (IASDO) and the Cameron Highlands District Education Office. The first phase included an Implementation Briefing and Workshop for Action Research Series 1, held on August 1, 2023.

The knowledge-sharing sessions were facilitated by Dr. Hapini Awang (IASDO), Dr. Nur Suhaili Mansor (IASDO), and the Dean of the School of Computing, Prof. Dr. Osman Ghazali. These facilitators guided the participants in the Action Research program, aiming to provide guidance to teachers in producing high-impact Action Research papers.

This program aligns with Sustainable Development Goal (SDG) Core Goal 4 (SDG4): Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all; and Core Goal 17 (SDG17): Strengthen the means of implementation and revitalize the global partnership for sustainable development. The program received positive feedback from the participating teachers, with interactive sessions observed throughout the program. Teachers gained valuable insights from the experiences of the facilitators related to Action Research. In addition to sharing experiences, the facilitators also imparted knowledge and techniques on how to be effective high-impact writers according to Action Research criteria.

The knowledge-sharing session concluded with a question-and-answer session, where teachers had the opportunity to ask various questions. Facilitators welcomed and answered the questions thoroughly and informatively. At the end of the event, all participants had the chance to take a group photo as a memorable token."

DIGITAL CREATIVITY UNLEASHED: SOC UUMS MULTIMEDIA MASTERY SERIES WITH ALBUKHARY INTERNATIONAL UNIVERSITY



SOC UUM Online: Collaborative Multimedia Workshops with Albukhary International University. The Institute for Advanced and Smart Digital Opportunities (IASDO), School of Computing (SOC), in collaboration with Albukhary International University (AIU), successfully conducted three series of 'FILMORA FRENZY: MASTERING VIDEO EDITING AND MULTIMEDIA DEVELOPMENT' sessions with AIU Education degree students from December 15, 2022, to February 20, 2023. Led by Idah Pindai Zengeni, an SOC practicum student, the sessions covered the use of Canva in the first session, emphasizing its user-friendly interface and collaboration with popular social media platforms. The second session focused on the user-friendly filmora application, highlighting its creative elements and time-saving features for video editing. These youth-led sessions, delivered by the tech-savvy generation, aim to enhance productivity and creativity in core applications, benefiting participants in their learning journey

CONTACT US:

Institute For Advanced and Smart Digital Opportunities, School of Computing, Universiti Utara Malaysia, 06010 Sintok, Kedah Darul Aman

Institute for Advanced and Smart
Digital Opportunities

- +604-9285075/5076/5077
- iasdo2016@gmail.com
- iasdouum
- https://www.soc.uum.edu.my/iasdo/