



NARATIF BAHARU UKM  
**UNIVERSITI  
ATAN KITA**



LEADING DIGITAL TECHNOLOGY ACROSS INDUSTRIAL REVOLUTION



## CURRICULUM VITAE

**ASSOC. PROF. DR. MOHAMMAD NAZIR AHMAD**

INSTITUTE OF VISUAL INFORMATICS  
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*MONDAY, AUGUST 26, 2024*

## CURRICULUM VITAE

PERSONAL INFORMATION	
<b>Name</b>	: Mohammad Nazir Ahmad Sharif
<b>IC Number</b>	: 761113016735
<b>UKMPer</b>	: K022312
<b>Religious</b>	: Islam
<b>Age</b>	: <b>48</b>
<b>Citizen</b>	: Malaysia
<b>Office Address</b>	: Institute of Visual Informatics Universiti Kebangsaan Malaysia 43600 UKM Bangi, Selangor, MALAYSIA
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<b>Handphone</b>	: 017.9000.470
<b>Email</b>	: <a href="mailto:mnazir@ukm.edu.my">mnazir@ukm.edu.my</a>
<b>Current Position</b>	: Deputy Director, IVI Senior Research Fellow, IVI
<b>Home Address</b>	: No 5, Jalan Sejahtera 8, Taman Desa Skudai, 81300, Skudai, JB.
<b>H-Index</b> Accessed on	: Scopus ( <b>18</b> ); Web of Science ( <b>12</b> ); Google Scholar ( <b>26</b> ): Accessed on 26-Aug-24
<b>Citations</b>	: Scopus ( <b>1081</b> ); Web of Science ( <b>563</b> ); Google Scholar ( <b>2621</b> ): Accessed on <b>26-Aug-24</b>
<b>Cumulative IF</b>	: Exceed <b>50</b>
<b>Total grants (Industry)</b>	: Exceed <b>MYR 500,000.00</b>
<b>Total grants (Academic)</b>	: Exceed <b>MYR 3.0 million</b>
<b>Total PI</b>	: Exceed <b>15</b>
<b>Total publications</b>	: At least <b>150 articles</b>
<b>Publications</b>	: Q1-Q2 ( <b>28</b> ); Q3-Q4 ( <b>16</b> ); Scopus / ESCI ( <b>50</b> )
<b>Total PhD/Master graduates (main-SV)</b>	: <b>All</b> PhD ( <b>13</b> ); Masters ( <b>11</b> )
<b>Skills</b>	: Business process, PHP, MySQL, Project management, Ontology, Entrepreneurship, Negotiation, Marketing, Design thinking, Leadership

ACADEMIC QUALIFICATION							
<b>University</b>	:	<b>2006 – 2009:</b> PhD, the School of IT and Electrical Engineering (ITEE), University of Queensland, Brisbane, Australia <b>1999 – 2002:</b> MSc Information Systems, Universiti Teknologi Malaysia (UTM), Malaysia <b>1995 – 1998</b> BIT Information Technology (IT), Universiti Kebangsaan Malaysia (UKM), Malaysia					
<b>Secondary School</b>	:	<b>1994 – 1994/95</b> UKM Science Matriculation, Sekolah Alam Shah (SAS), KL, Cheras, Malaysia <b>1989 – 1993</b> Sekolah Menengah Dato Onn, Batu Pahat, Johor					
<b>Primary School</b>	:	<b>1983 – 1988</b> Sekolah Kebangsaan Sungai Kajang, Batu Pahat, Johor					
AREA OF RESEARCH							
<b>Core</b>	:	Ontology Engineering & Knowledge Management					
<b>Application Areas / Interests</b>	:	<ul style="list-style-type: none"> <li>• Disaster Management</li> <li>• Waste Management</li> <li>• Education Management</li> <li>• Healthcare</li> <li>• Cybersecurity</li> <li>• Smart Farming</li> <li>• Blockchain</li> <li>• Virtual Reality / Augmented Reality</li> </ul>					
LANGUAGE SKILLS							
		Speaking			Writing		
		Fluent 8-10	Moderate 5-7	Less fluent 1-4	Good 8-10	Moderate 5-7	Weak 1-4
<b>Malay</b>		9			10		
<b>English</b>			7		8		

## CAREER HISTORY

1. **21 February 2024 – 31 January 2026**; Board Member, IT Program at University Malaysia Sabah (UMS), Sabah, Malaysia
2. **01 April 2024 – 31 March 2026**; Visiting Professor at Universiti Tenaga National, UNITEN, Malaysia
3. **01 November 2023 – 31 October 2026**; Adjunct Professor, Infrastructure University Kuala Lumpur (IUKL), Malaysia
4. **01 April 2023 – 01 October 2023**; Visiting Professor – University of Dubai (UoD), UAE
5. **01 March 2023 – present**; Deputy Director, Institute of Visual Informatics (IVI), Universiti Kebangsaan Malaysia, Malaysia
6. **29 September 2022 – present**; Research Group Leader, iAIRG, Institute of Visual Informatics (IVI), Universiti Kebangsaan Malaysia, Malaysia
7. **29 September 2022 – 1 March 2023**; Head of R&I unit, Institute of Visual Informatics (IVI), Universiti Kebangsaan Malaysia, Malaysia
8. **26 August 2022 – present**; Associate Member, Majlis Profesor Negara
9. **26 February 2022 – 2024**; Exco I - Technology, Association for Information Systems (Malaysian Chapter)
10. **06 January 2022 – present**; Chief Technology Officer, ARBR1 Sdn. Bhd, IT R&D Company under ARB Berhad, Malaysia
11. **20 July 2021 – present**; Chief Technology Advisor, Aberys Innovation Sdn. Bhd, ICT Company under ARB Berhad, Malaysia
12. **01 May 2020 – February 2021**; Coordinator, Industry Linkages & Networking, Institute of Visual Informatics (IVI), Universiti Kebangsaan Malaysia, Malaysia
13. **19 Sept 2019 – present**; Academic Panel Advisor, Kolej Universiti Islam Selangor (KUIS), Malaysia
14. **14 May 2019 – 31 October 2023**; Visiting Professor, Infrastructure University Kuala Lumpur (IUKL), Malaysia
15. **04 July 2018 – 07 March 2020**; Exco II - Technology & Corporate, Association for Information Systems (Malaysian Chapter)
16. **04 April 2018 – 03 April 2020**; ICT Advisor, NGO Lestari Alam Malaysia, Malaysia
17. **29 November 2017 – present**; Senior Research Fellow, Institute of Visual Informatics (IVI), Universiti Kebangsaan Malaysia, Malaysia
18. **29 November 2017 – present**; Associate Professor, Universiti Kebangsaan Malaysia, Malaysia
19. **27 July 2017 – 2 August 2017**; Visiting Research Fellow, Applied Science University, Manama, Bahrain
20. **01 February 2017 – 31 December 2017**; Academic consultant, Innovrobot Enterprise, IoT Solution Small Medium Enterprise Company, Malaysia

21. **01 January 2017 – 10 July 2022**; Business consultant, Integrasi Erat Sdn. Bhd, IT Solution Small Medium Enterprise Company, Malaysia
22. **01 April 2016 – 31 December 2017**; Academic consultant, GR Tech Sdn. Bhd, IT Solution Small Medium Enterprise Company, Malaysia
23. **15 September 2015 – 27 August 2017**; Academic Fellow, Centre for Information & Communication Technology, Universiti Teknologi Malaysia, Malaysia
24. **1 September 2015 – 31 August 2016**; Internship at Integrasi Erat Sdn. Bhd, IT Solution Small Medium Enterprise Company, Malaysia
25. **09 August 2015 – 09 August 2016**; Chief Scientist Officer, Gates IT Sdn. Bhd, IT Solution Small Medium Enterprise Company, Malaysia
26. **28 May 2014 – 3 June 2014**; Visiting Research Fellow, Applied Science University, Manama, Bahrain
27. **1 January 2014 – 1 September 2015**; Head of Information & Service System Innovation Research Group, FC-UTM, Malaysia
28. **01 August 2013 – 01 August 2015**; Business consultant, GreatLife Physio and Rehabilitation Enterprise, Physiotherapy and Rehabilitation Small Medium Enterprise Company, Malaysia
29. **2 February 2012 – 2<sup>nd</sup> March 2014**; Student Affairs Fellow, Kolej Perdana, Universiti Teknologi Malaysia, Malaysia
30. **22 September 2011 – 29 November 2017**; Senior Lecturer, Department of Information Systems, FC-UTM, Malaysia
31. **October 2002 – 21 September 2011**; Lecturer, Department of Information Systems, FC-UTM, Malaysia
32. **1 June 2001 – September 2002**; Tutor, Department of Information Systems, FC-UTM, Malaysia
33. **1 June 2001 – September 2002**; Tutor, Department of Information Systems, FC-UTM, Malaysia
34. **Year 2000**; Head of department, Department of Computer Science, Institute of Technology, KPYPJ, Malaysia
35. **1 June 1998 – 30 June 2001**; Lecturer, KPYPJ, Malaysia

#### TEACHING

1. **ZGTV 6023** - Simulation & Virtual Modeling / Simulasi & Pemodelan Maya, IVI, UKM
2. **LMCW2143** - Falsafah Islam & Isu-Isu Semasa, Pusat Citra, UKM

#### ADMINISTRATIVE POST

1.	Postgraduate Program Coordinator of IVI, UKM	:	01 May 2024 – 30 April 2026.
2.	Deputy Director, IVI, UKM	:	01 March 2023 – 28 February 2026
3.	Coordinator for Simulation & Virtual Modeling Course, IVI, UKM	:	12 September 2023

3.	Project Leader for Income Generation under Industry Linkages & Networking Unit, IVI, UKM.	:	01 June 2023 – present
4.	Intellect Ambassador / Duta Intelek, IVI, UKM	:	01 April 2023 – 31 March 2025
5.	Leader of an iAI Research Group, IVI, UKM	:	29 September 2022 – present
6.	Head of Research & Innovation Unit, IVI, UKM	:	29 September 2022 – 1 March 2023
7.	Head of Industry Linkages & Networking Unit, IVI, UKM	:	01 May 2020 – February 2021
8.	Intellect Ambassador / Duta Intelek, IVI, UKM	:	01 May 2020 – 30 April 2023

### HONOURS, AWARDS & SPECIAL ACHIEVEMENTS

1. **APGI 2023**, Anugerah Penyumbang Geran Industri, Institut Informatik Visual, Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia, **2023**
2. **APP 2023**, Anugerah Penyelidik Popular, Institut Informatik Visual, Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia, **2023**
3. **APG 2023**, Anugerah Penyumbang Geran, Institut Informatik Visual, Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia, **2023**
4. **APC 2022**, Anugerah Perkhidmatan Cemerlang, Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia, **2022**.
5. **Gold Award**, VR Ankle, 33<sup>rd</sup> International Invention, Innovation & Technology Exhibition (ITEX '22), KL, Malaysia, 26-27 May **2022**.
6. **Gold Award**, VR: A Look into UKM Future Medical Classroom, Kongres & Pertandingan Inovasi P&P (KNOVASI '20), Bangi, Selangor, Malaysia, 5-6 February **2020**
7. **Gold Award**, VR in Total Ankle Replacement Surgery, 19<sup>th</sup> International Expo on Invention & Innovation, Malaysia Technology Expo (MTE '20), KL, Malaysia, 20-22 February **2020**
8. **Gold Award**, VR Ideal Learning: UKM Future Medical Classroom, Kongres & Pertandingan Inovasi P&P (KNOVASI '19), Bangi, Selangor, Malaysia, 23-24 January **2019**
9. **Second Prize**, VR in Total Ankle Replacement Surgery, Selangor R&D and Innovation Expo, MITIC, KL, 10-13 October **2019**
10. **Silver Award**, Developing A Simulated Training System for Cataract Surgery, Kongres & Pertandingan Inovasi P&P (KNOVASI '19), Bangi, Selangor, Malaysia, 23-24 January **2019**
11. **Gold Award**, VR Cataract Surgery, Selangor Innovation & Creativity Exposition (SLICE '18), UNISEL, Shah Alam, Selangor, Malaysia, 14-16 November **2018**
12. **Silver Award**, The SmartBin System for Managing and Monitoring Bin Collection, Malaysia Technology Expo (MTE' 18), KL, Malaysia, 22-24 February **2018**.
13. **Silver Award**, Development of My Ankle Hinged Fixator, Malaysia Technology Expo (MTE' 18), KL, Malaysia, 22-24 February **2018**.
14. **Bronze Award**, Development of My Shoe Air Walker Integrated with Weight Alert System, Malaysia Technology Expo (MTE' 18), KL, Malaysia, 22-24 February **2018**.

15. **Silver Award**, Developing A Simulated Training System for Cataract Surgery: Pioneer in the Country, Education Innovation (EDUINNOVATION '18), Bangi, Selangor, Malaysia, 18 October 2018

#### SECTION A – LIST OF THESIS / FINAL YEAR PROJECT SUPERVISED

□ **PhD Graduate:** *Completed*

1. **Dr. Mohd Yazid Bajuri (Yazid) (2024)** - An Ontology based Approach to Virtual Reality (VR) Contents Evaluation: A Case Study in VR Ankle Surgery, Institute of Visual Informatics, Universiti Kebangsaan Malaysia - **[OE area]**
2. **Dr. Mohd Ismawira Mohd Ismail (Wira) (2023)** – A Design Approach of Central Repository for Supporting the Domain of Interlocking Institutional Worlds, Faculty of Computing, Universiti Teknologi Malaysia – **[OE area]**
3. **Dr. Mohd. Zuhaili Mohd. Rodzi, (Zuhaili) (2023)** – Knowledge Integration Framework for Flood Management in Malaysia, Faculty of Computing, Universiti Teknologi Malaysia - **[KM area]**
4. **Dr. Abdul Sattar (Sattar) (2022)** – An Ontology for Waste Management Domain, Institute IR4.0, Universiti Kebangsaan Malaysia - **[OE area]**
5. **Dr. Youcef Benferdia (Youcef) (2021)** – An Ontology for Virtual Reality based Training in Ophthalmology Domain: A Case Study of Cataract Surgery, Institute IR4.0, Universiti Kebangsaan Malaysia - **[OE area]**
6. **Dr. Ali Mehimed Ahmed Ireda (Ali) (2020)** – An Enhanced Acceptance Model of Internet of Things (IOT) Among Students in Libyan Public Universities, Infrastructure University Kuala Lumpur - **[KM area]**
7. **Dr. Ehab Azhary Seed Ahmed (Ehab) (2020)** – Ontology-based Conceptual Model for Business Process Improvement Method in Complex Information Systems (Onto-BPIM), School of Computing, Faculty of Engineering, Universiti Teknologi Malaysia - **[OE area]**
8. **Dr. Sedig Ahmed Babikr Ali (Sediq) (2019)** – An Ontology for Quality Assurance in Higher Education, School of Computing, Faculty of Engineering, Universiti Teknologi Malaysia - **[OE area]**
9. **Dr. Ghassan Marwan Abdulfattah (Ghassan) (2019)** – Adaptive Offline Signature Verification System using Fuzzy Structure Ordinal Module Based on One Single Signature, Department of Information Systems, Faculty of Computing, Universiti Teknologi Malaysia - **[KM-KMS area]**
10. **Dr. Sommai Khantong (Sommai) (2018)** – A Design of Domain Ontology to Support Flood Response Management and Sharing, Department of Information Systems, Faculty of Computing, Universiti Teknologi Malaysia - **[OE area]**

<p>11. <b>Dr. Yunis Ali</b> (Yunis) (2017) – Social Media-based Knowledge Sharing Intention Model in Disaster Relief Organizations: Somalia context, Department of Information Systems, Faculty of Computing, Universiti Teknologi Malaysia - <b>[KM area]</b></p> <p>12. <b>Dr. Kamal Badr Abdalla Badr</b> (Kamal) (2016) – “An Ontological Approach to Conceptual Modeling of Lessons Learned Management”, Department of Information Systems, Faculty of Computing, Universiti Teknologi Malaysia - <b>[KM area]</b></p> <p>13. <b>Dr. Razatulshima Ghazali</b> (Shima) (2015) – “Knowledge Integration Mechanism as Mediator between Leadership Styles and Enterprise System Success”, Department of Information Systems, Faculty of Computing, Universiti Teknologi Malaysia - <b>[KM area]</b></p>	
<p><input type="checkbox"/> <b>PhD Candidates:</b> <i>On-going</i></p> <p>1. <b>Mr. Faisal Mohd Amin</b> (Faisal) – Problem in Data Quality Management Framework for Smart Farming Management Systems, commenced in <i>March 2024</i>, confirmed in <i>month-year</i>, submitted in <i>month-year</i> - <b>[KM area]</b></p> <p>2. <b>Mr. Ahadi Mohd Nasir</b> (Ahadi) – Problem in Information Dashboard Design Method for Smart Waste Management Systems, commenced in <i>March 2023</i>, confirmed in <i>January-2024</i>, submitted in <i>month-year</i> - <b>[OE area]</b></p> <p>3. <b>Mr. Liew Kok Leong</b> (Larry) – Problem in VR Dashboard Design Method for Smart Farming Monitoring System, commenced in <i>March 2023</i>, confirmed in <i>June-2023</i>, submitted in <i>month-year</i></p> <p>4. <b>Mr. Mohd Khairul Maswan Mohd Redzuan</b> (Khairul) – Problem in Local Culture Influence on ICT adoption in Smart City Domain: Intention to Use, commenced in <i>Feb-2018</i>, confirmed in <i>September-2020</i>, submitted in <i>month-year</i> - <b>[KM area]</b></p> <p><input type="checkbox"/> <b>Master Candidates:</b> <i>On-going</i></p> <p>1. <b>Mrs. Fazita Irma Tajul Urus</b> (Fazita) – Problem in Data Integration Framework for Smart Farming Management Systems, commenced in <i>September 2023</i>, confirmed in <i>June-2024</i>, submitted in <i>month-year</i> - <b>[OE area]</b></p> <p>2. <b>Mr. Mohd Firdaus Sulaiman</b> (Firdaus) – Problem in Data Synchronization in Cloud-based Storage Management for Smart Farming Domain, commenced in <i>March-2022</i>, confirmed in <i>February-2023</i>, submitted in <i>month-year</i> - <b>[OE area]</b></p> <p>3. <b>Mr. Nik Mohd Habibullah Nik Mohd Nizam</b> (Habib) – Problem in Modeling Q-System Solution, commenced in <i>Jan-2021</i>, confirmed in <i>month-year</i>, submitted in <i>month-year</i> - <b>[KM area]</b></p>	
<b>SECTION B – PUBLICATIONS</b>	
<b>B.1</b>	<b>PHD THESIS</b>
	<p><input type="checkbox"/> Mohammad Nazir Ahmad. (2009) <b>An Ontology Server for Ontology-based Interoperation of Information Systems</b>. A Ph.D. thesis in Information Technology (IT), University of Queensland (UQ), Brisbane, Australia.</p> <p><input type="checkbox"/> Commenced – 2006, Submitted – 2008, Graduated - 2009</p>
<b>B.2</b>	<b>MASTER THESIS</b>



	<ul style="list-style-type: none"> <li>□ Mohammad Nazir Ahmad. (2001). <b>UML profile for Web Application Design</b>. An MSc thesis in Information Systems (IS), Universiti Teknologi Malaysia (UTM), Skudai, Johor, Malaysia.</li> <li>□ CGPA: 3.89</li> </ul>
<b>B.3</b>	<p><b>BACHELOR THESIS</b></p> <ul style="list-style-type: none"> <li>□ Mohammad Nazir Ahmad. (1998). <b>Plotting B-spline curve using IADE method</b>. A BIT thesis in Industrial Computing, Universiti Kebangsaan Malaysia (UKM), Bangi, Selangor, Malaysia.</li> <li>□ CGPA: 3.54</li> </ul>
<b>B.4</b>	<p><b>REFEREED JOURNALS</b></p> <ol style="list-style-type: none"> <li>1. Hj. Md. Nasir, A., Sulaiman, M.F., Leong, L.K., Salwana, E., <b>Ahmad, M.N.</b> (2024). An Approach for Developing an Ontology: Learned from Business Model Ontology Design and Development. <a href="#">International Journal of Advanced Computer Science and Applications (IJACSA)</a>, 15(3), 539-554. ORI Article (ISI-esci-Computer Science); ISSN: 2156-5570; <b>[OE area]</b></li> <li>2. Sarker, M.R., Riaz, A., Hossain Lipu, M.S., Md Saad, M.H., <b>Ahmad, M.N.</b>, Abdul Kadir, R., Olazagoitia, J.L. (2024). Micro energy harvesting for IoT platform: Review analysis toward future research opportunities, <i>Heliyon</i>, 10 (2024), 4-27. (ISI-Q1-Computer Science); ISSN: 2405-8440; <b>Elsevier. [KMS area]</b></li> <li>3. Vats, S., Sharma, V., Singh, K., Katti, A., Ariffin, M.A., <b>Ahmad, M.A.</b>, <i>et al.</i> (2024). Incremental learning-based cascaded model for detection and localization of tuberculosis from chest x-ray images. <a href="#">Expert Systems with Application</a>, 238 (2024), 1-12. (ISI-Q1-Computer Science); ISSN: 1873-6793; <b>Elsevier. [KMS area]</b></li> <li>4. Touqeer, M., Umer, R., <b>Mohammad, N.A.</b> <i>et al.</i> (2024). Signed distance-based approach for multiple criteria group decision-making with incomplete information using interval type-2 neutrosophic numbers. <a href="#">Multimedia Tools and Applications</a>, 83(2024), 8439-8466. ORI Article (ISI-Q2-Computer Science); ISSN: 1573-7721; <b>Springer. [KMS area]</b></li> <li>5. Zhou, X., Almutairi, L., Alsenani, T.R., <b>Ahmad, M.N.</b> (2023). Honey-pot Based Industrial Threat Detection Using Game Theory in Cyber-Physical System. <a href="#">Journal of Grid Computing</a>, 21(59), 1-11. ORI Article (ISI-Q1-Computer Science); ISSN: 1572-9184; <b>Springer. [KMS area]</b></li> <li>6. Jeon, J., Krishnan, S., Manirathinam, T., Narayanamoorthy, S., <b>Ahmad, M.N.</b> <i>et al.</i> (2023). An innovative probabilistic hesitant fuzzy set MCDM perspective for selecting flexible packaging bags after the prohibition on single-use plastics. <a href="#">Sci Rep</a> 13, 10206 (2023). ORI Article (ISI-Q2-Computer Science); ISSN: 2045-2322; <b>Springer. [KMS area]</b></li> <li>7. Iqbal, M.J., Iqbal, M.W., Anwar, M., Khan, M.N., Nazimi, A. Jabar., <b>Ahmad, M.N.</b> (2023). Brain Tumor Segmentation in Multimodal MRI Using U-Net Layered Structure. <a href="#">CMC</a>, v(i), xx-yy, ORI Article (ISI-Q2-Computer Science); ISSN: 1546-2226; <b>TSP. [KMS area]</b></li> </ol>

8. Hassan, A., Salleh, N., Ismail, M.N., **Ahmad, M.N.**, Che Hussin, A.R. (2023). Empirical evaluation of continuous auditing system use: a systematic review. [International Journal of Electrical and Computer Engineering \(IJECE\)](#), 13(1), 796-808. Review Article (Scopus-Q3-Computer Science); ISSN: 2502-4760; **Media Utama. [KM area]**
9. Benferdia, Y., Md. Ali, M. A., Leong, L.K., Isa, M.H., A. Mahdy, Z., **Ahmad, M.N.**, Shapii, A. (2022). Systematic review on ontology applications in virtual reality training domain: design components, roles, and research directions. [Journal of Electronic Imaging](#), 32(2), 1-31. ORI Article (ISI-Q3-CS); ISSN: 1560-229X; **SPIE. [OE area]**
10. Razip, M.M., Savita, K.S., Kalid, K.S., **Ahmad, M.N.**, Zaffar, M., A. Rahim, E.E., Baleanu, D., Ahmadian, A. (2022). The development of sustainable IoT E-waste management guideline for households. [Chemosphere](#), 303(2022), 1-16. ORI Article (ISI-Q1-CS, IS); ISSN: 0045-6535; **Elsevier. [KM area]**
11. Khamis, S., Ahmad, M., Ahmad, A., **Ahmad, M.N.** (2022). Internet use behaviour model for predicting students' performance. [Expert Systems](#), 39(8), 1-21. ORI Article (ISI-Q2-AI); ISSN: 1468-0394; **Wiley. [KM area]**
12. Yeong, Y-C, Kalid, K.S., Savita, K.S., **Ahmad, M.N.**, Zaffar, M. (2022). Sustainable cryptocurrency adoption assessment among IT enthusiasts and cryptocurrency social communities. [Sustainable Energy Technologies and Assessments](#), 52(2022), 1-15. ORI Article (ISI-Q2-Sustainability, ICT); ISSN: 2213-1388; **Elsevier. [KM area]**
13. Ahmad, K.A., Khujamatov, H., Akhmedov, N., Bajuri, M.Y., **Ahmad, M.N.**, Ahmadian, A. (2022). Emerging Trends and Evolutions for Smart City Healthcare Systems. [Sustainable Cities and Society](#), 80(2022), 1-16. ORI Article (ISI-Q1-Sustainability, ICT); ISSN: 2210-6707; **Elsevier. [KMS area]**
14. Anwar, M., Masud, F., Butt, R.A., Idrus, S.M., **Ahmad, M.N.**, Bajuri, M.Y. (2022). Traffic Priority-Aware Medical Data Dissemination Scheme for IoT Based WBASN Healthcare Applications. [CMC](#), 17(1), 4444-4456, ORI Article (ISI-Q2-Computer Science); ISSN: 1546-2226; **TSP. [KMS area]**
15. Khan, T., Singh, K., Manjul, M., **Ahmad, M.N.**, Zain, A.M. Ahmadian, A. (2022). A Temperature-Aware Trusted Routing Scheme for Sensor Networks: Security Approach. [Computer & Electrical Engineering \(CEE\)](#), 19(March), 1-22. ORI Article (ISI-Q2-Computer Science); ISSN: 0045-7906; **Elsevier. [KMS area]**
16. Mohammad, U.H., **Ahmad, M.N.**, Zakaria, A.M.U. (2022). Ontologies application in the sharing economy domain: a systematic review. [Online Information Review \(OIR\)](#), 46(4), 807-825. Review Article (ISI-Q1-Multidisciplinary); ISSN: 1468-4527; **Emerald. [OE area]**
17. Ghazali, R., M. Ali, F.H., A. Bakar, H., **Ahmad, M.N.**, Haron, N.S., Omar, A.H. (2022). Blockchain for Record-Keeping and Data Verifying: Proof of Concept. [Multimedia Tools and Applications \(MTAP\)](#), 81(2022), 36587-36605. ORI Article (ISI-Q2-Computer Science); ISSN: 1573-7721; **Springer. [KMS area]**

18. S. Hameed, S., Selamat, A., Abdul Latiff, L., A. Razak, S., Krejcar, O., Fujita, H., **Ahmad, M.N.**, Omatu, S. (2021). A Hybrid Lightweight System for Early Attack Detection in the IoMT Fog. Sensors, 21(24), 1-25. ORI Article (ISI-Q1-Multidisciplinary); ISSN: 1424-8220; **MDPI. [KMS area]**
19. Zulkiflie, F.A., Hassan, R., **Ahmad, M.N.**, Kassim, S. (2021). Integrated NIR-HE based SPOT-5 image enhancement method for features preservation and edge detection. [International Journal of Electrical Engineering and Computer Science \(IJEECS\)](#), 24(2), 1499-1514. ORI Article (Scopus); ISSN: 2502-4760; **Media Utama. [KMS area]**
20. Benferdia, Y., **Ahmad, M.N.**, Mustapha, M. (2021). OntoPhaco: An Ontology for Virtual Reality Training in Ophthalmology Domain – A Case Study of Cataract Surgery. [IEEEAccess](#), 9(2021), 152347-152378. ORI Article (ISI-Q1-Multidisciplinary); ISSN:2169-3536; **IEEE. [OE area]**
21. Bajuri, M.Y., Benferdia, Y., **Ahmad, M.N.** (2021). Critical Success Factors for Virtual Reality Applications in Orthopaedic Surgical Training. [IEEEAccess](#), 9(2021), 128574-128589. Review Article (ISI-Q1-Multidisciplinary); ISSN:2169-3536; **IEEE. [KMS area]**
22. Benferdia, Y., **Ahmad, M.N.**, Mustapha, M., Md Ali, A. (2021). The Role of Ontologies through the Lifecycle of Virtual Reality based Training (VRT) Development Process. [International Journal of Advanced Computer Science and Applications \(IJACSA\)](#), 12(9), 122-131. ORI Article (Scopus-ESCI); ISSN: 2156-5570; **SAI. [OE area]**
23. Ahmed, Y.A., Mohamed, M.M., Ali, A.F., Alasso, M.M., Siyad, A.D., **Ahmad, M.N.** (2021). Evaluating Students' Perspectives on ICT Readiness in Somali Higher Education towards Teaching – Learning Acceptance. [Design Engineering](#), 2021(6), 3660-3685, ORI Article (Scopus); ISSN: 0011-9342; **DE. [KM area]**
24. Mustakim, F., A. Aziz, A., Fujita, M., **Ahmad, M.N.** (2021). Motorcycles and Passenger Cars Behavior at Unsignalized Intersection in Malaysia Rural Roadways. [Turkish Online Journal of Qualitative Inquiry](#), 12(7), 2249 – 2264. ORI Article (Scopus); ISSN: 1309-6591; **Science Research Society. [KM area]**
25. Mohammad, U.H., **Ahmad, M.N.**, Benferdia, Y., Shapii, A., Bajuri, M.Y. (2021). An Overview of Ontologies in Virtual Reality-based Training for Healthcare Domain. [Frontiers in Medicine](#), 8(2021), 1-13. Review Article (ISI-Q1-Healthcare); ISSN: 2296-858X; **Frontiers Media. [OE area]**
26. Ahmad, M.N., Mohd Ismail, M.I., Zakaria, N.H., Mohd Redzuan, M.K.M. (2021). Pertinent Knowledge Storage Processes for Central Repository Design in Domain of Interlocking Institutional Worlds. [International Journal of Enterprise Information Systems \(IJEIS\)](#), 17(2), 105-124. ORI Article (Scopus-ESCI); ISSN: 1548-1115; **IGI global. [KM area]**
27. **Ahmad, M.N.**, Mahmood, A.K., (2021). Artificial intelligence model and correlation for characterization and viscosity measurements of mono & hybrid nanofluids concerned graphene oxide/silica. [Journal of Thermal Analysis and Calorimetry](#), 145(2021), 2209–2224, ORI Article (ISI-Q2-Engineering); ISSN: 2169-3536; **Springer. [KMS area]**

28. Peng, Y., Ghahnaviyeh, M.B., **Ahmad, M.N.**, Abdollahi, A., Bagherzadeh, S. A., Azimy, H.R., Mosavi, A., Karimipour, A. (2021). Analysis of the effect of roughness and concentration of Fe<sub>3</sub>O<sub>4</sub>/water nanofluid on the boiling heat transfer using the artificial neural network: An experimental and numerical study. International Journal of Thermal Sciences, 163 (2021), 1-12. ORI Article (ISI-Q1-Engineering); ISSN: 1290-0729; Elsevier. [KMS area]
29. Nwaeze, E, R., Khan, M. A., Ahmadian, A., **Ahmad, M.N.**, Mahmood, A.K. (2020). Fractional Inequalities of the Hermite-Hadamard type for m-polynomial convex and harmonically convex functions. AIMS Mathematics, 6(2-December), 1889-1904. ORI Article (ISI-Q3-Mathematics); ISSN: 2227-9709; AIMS. [KMS area]
30. Sattar, A., **Ahmad, M.N.**, Mat Surin, E.S., Mahmood, A.K (2021). An Improved Methodology for Collaborative Construction of Reusable, Localized, and Shareable Ontology. IEEE Access, 9(2021), 17463-17484. Review Article (ISI-Q1-Multidisciplinary); ISSN:2169-3536; IEEE. [OE area]
31. Khurshid, M, M., Zakaria, N.H., Rashid, A., **Ahmad, M.N.**, Arfeen, M.I., F. Shehzad., H.M. (2020). Modeling of Open Government Data for Public Sector Organizations using the Potential Theories and Determinants – A Systematic Review. Informatics, 7(3-September), 1-16. ORI Article (Scopus-ESCI); ISSN: 2227-9709; MDPI. [KM area]
32. M.Ismail, M.I., **Ahmad, M.N.**, Zakaria, N.H. & Ghazali, R. (2020). Requirements for Central Repository: Flood Management Malaysia. TEST Engineering & Management (TEST), 82(Jan/Feb), 11908-11915. ORI Article (Scopus); ISSN: 0193-4120; Mattingley. [KMS area]
33. Khantong, S., **Ahmad, M.N.**, Mahmood, A.K. (2020). An Ontology for Sharing and Managing Information in Disaster Response: An Illustrative Case Study of Flood Evacuation. International Review of Applied Sciences and Engineering (IRASE), 11(1-April), 22-33. ORI Article (Scopus-ESCI); ISSN: 2062-0810; Akademia Kiado. [OE area]
34. Khantong, S.& **Ahmad, M.N.** (2020). An Ontology for Sharing and Managing Information in Disaster Response: In Flood Response Usage Scenarios. Journal on Data Semantics (JODS), 9(March 2020), 39-52. ORI Article (Scopus-ESCI); ISSN: 1861-2040; Springer. [OE area]
35. Younas, M., A. Jawawi, D.N., Mahmood, A.K., **Ahmad, M.N.**, U. Sewer, M. & Idris, M.Y (2020). Agile Software Development using Cloud Computing: A Case Study. IEEE Access, 8(2020), 1-6. ORI Article (ISI-Q1-Multidisciplinary); ISSN: 2169-3536; IEEE. [KMS area]
36. Zeshan, F., Mohamad, R. & **Ahmad, M.N.** (2019). Context-Aware Ontology and Web services discovery for Distributed Embedded Real-Time Systems. Malaysian Journal of Computer Science (MJCS), 32(3), 186-208. ORI Article (ISI-Q4-Computer Science); ISSN: 0127-9084; UM press. [OE area]
37. Khurshid, M, M., Zakaria, N.H., **Ahmad, M.N.**, Rashid, A., Shah Kazmi, S.R., Shafique, M.N. (2019). Analysing Diffusion Patterns of Big Open Data as Policy Innovation in Public Sector. Computers & Electrical Engineering, 78(September), 148-161. ORI Article (ISI-Q2-Computer Science); ISSN: 0045-7906; Elsevier. [KM area]

38. Seed Ahmed, E.A, **Ahmad, M.N.** & Othman, S.H. (2019). Business Process Improvement Methods (BPIMs) in Healthcare: A Comparative Study. International Journal of Health Care Quality Assurance (IJHCQA), 32(5), 887-908. Review Article (Scopus-ESCI); ISSN: 0952-6882; **Emerald. [KM area]**
39. Ali, Y., **Ahmad, M.N.**, Ahmad, N. & Zakaria, N.H. (2019). Social Media for Knowledge Sharing: Systematic Review. Telematics and Informatics (Telematics), 37(April), 72-112. Review Article (ISI-Q1-Multidisciplinary); ISSN: 0763-5853; **Elsevier. [KM area]**
40. Ghazali, R., **Ahmad, M.N.** & Zakaria, N. H. (2019). The Mediating Role of the Knowledge Integration Model for Enterprise Systems Success. Journal of Enterprise Information Management (JEIM), 32(1), 75-97. ORI Article (ISI-Q1-Information & Knowledge Management); ISSN: 1741-0398; **Emerald. [KM area]**
41. Babikir Ali, S.A, **Ahmad, M.N.** & Zakaria, N.H. (2018). Assessing Quality of Academic Programmes: Comparing Different Sets of Standards. Quality Assurance in Education, 26(3), 318-332. Review Article (Scopus-ESCI); ISSN: 0968-4883; **Emerald. [OE area]**

**B.5 | INTERNATIONAL/NATIONAL CONFERENCE/WORKSHOP**

1. Zulkifli, M.F., Kadir, R.A., **Ahmad, M.N.**, You King, D.W., Baharon, M.B.A. (2024). Blockchain Technology for Traceability Monitoring in Food Supply Chain. Advances in Visual Informatics, 8th International Visual Informatics Conference (IVIC '24), 15th-17th November, Bangi, Malaysia. LNCS, 14322 (2024), 478 – 492. ORI Article (ISI, Scopus); ISBN: 978-981-99-7338-5. **[KMS area]**
2. Hamzah, I., Salwana, E., Billingham, M., Baghaei, N., **Ahmad, M.N.**, Rosdi, F., Arsad, A. (2024). Virtual Reality for Social-Emotional Learning: A Review. Advances in Visual Informatics, 8th International Visual Informatics Conference (IVIC '24), 15th-17th November, Bangi, Malaysia. LNCS, 14322 (2024), 119-130. ORI Article (ISI, Scopus); ISBN: 978-981-99-7338-5. **[KMS area]**
3. You King, D.W., Riza, M.A., Leong, L.K., Mohamad, U.H., Abdul Kadir, R., Zulkifli, M.F., & **Ahmad, M.N.** (2024). Blockchain-Based Traceability Method – A Review. Advances in Visual Informatics, 8th International Visual Informatics Conference (IVIC '24), 15th-17th November, Bangi, Malaysia. LNCS, 14322 (2024), 234-246. ORI Article (ISI, Scopus); ISBN: 978-981-99-7338-5. **[KMS area]**
4. Jebriil, H.A.M. & **Ahmad, M.N.** (2024). Review of User Satisfaction Models in the Context of Digital Libraries Setting. Advances in Visual Informatics, 8th International Visual Informatics Conference (IVIC '24), 15th-17th November, Bangi, Malaysia. LNCS, 14322 (2024), 26-39. ORI Article (ISI, Scopus); ISBN: 978-981-99-7338-5. **[KM area]**
5. Md Ali, M.A., **Ahmad, M.N.**, Wan Ismail, W.S., M. Aun, N. Saadah., Ahmad Basri, M.A.F., Mohd Fazree, S.D., Zakaria, N.H., (2024). A Virtual Reality Development Methodology: A Review. Advances in Visual Informatics, 8th International Visual Informatics Conference (IVIC



- ['24](#)), 15th-17th November, Bangi, Malaysia. LNCS, 14322 (2024), 26-39. ORI Article (ISI, Scopus); ISBN: 978-981-99-7338-5. **[KMS area]**
6. Li, Z. & **Ahmad, M.N.** (2024). Unleashing Trustworthy Cloud Storage: Harnessing Blockchain for Cloud Data Integrity Verification. *Advances in Visual Informatics, 8th International Visual Informatics Conference ([IVIC '24](#))*, 15th-17th November, Bangi, Malaysia. LNCS, 14322 (2024), 443-492. ORI Article (ISI, Scopus); ISBN: 978-981-99-7338-5. **[KMS area]**
  7. Sulaiman, M.F., **Ahmad, M.N.**, Leong, L.K., Mohamad, U.H., Nik Mohd Nizam, N.M.H, Shapii, A. (2023). Ontologies for Smart Farming. *16th IADIS International Conference on Information Systems ([IS '23](#))*, 19th-22th July, Lisbon, Portugal. ORI Article (ISI, Scopus). **[OE area]**
  8. Mohamad, U.H., Y. King., D.W., Riza, M.A., **Ahmad, M.N.** (2022). Emerging Crop Traceability Systems in Smart Farming: A Review. *Proceedings of the International Conference on Computer, Information Technology and Intelligent Computing ([CITIC '22](#))*, 25-27 July 2022, Kuala Lumpur, Malaysia. ORI Article (ISI, Scopus). **[KMS area]**
  9. Md Ali, M.A., **Ahmad, M.N.**, W. Ismail, W.S. & M. Aun., N.S. (2022). Virtual Reality Applications in Autism Spectrum Disorder: A Systematic Review. *16<sup>th</sup> IADIS International Conference on ICT, Society and Human Beings ([ICT '22](#))*, 19<sup>th</sup>-22<sup>th</sup> July, Lisbon, Portugal. ORI Article (ISI, Scopus). **[KMS area]**
  10. M. Redzuan, M.K., M. Nayan, N., **Ahmad, M.N.**, & Mohd Zain., N. H. (2021). Knowledge Sharing on the Acceptance of Smart Waste Management System: Moderating Effects of Local Cultures. *10<sup>th</sup> Knowledge Management International Conference ([KMICE '21](#))*, 1<sup>st</sup> February, Virtual, Malaysia. ORI Article (ISI, Scopus). **[KM area]**
  11. M. Ismail, M.I., Zakaria, N., **Ahmad, M.N.**, & Hashim., K.F. (2021). Towards Central Repository Design for Domain of Interlocking Institutional Worlds: Successful Collaboration Starts with a Sharing Platform. *10<sup>th</sup> Knowledge Management International Conference ([KMICE '21](#))*, 1<sup>st</sup> February, Virtual, Malaysia. ORI Article (ISI, Scopus). **[KMS area]**
  12. Benferdia, Y., **Ahmad, M.N.**, Bajuri, M.Y., Mustafa, M., Ahmad, M., Shapii, A (2020). Ontologies Applications in Virtual Reality Training Domain: A Review and Future Directions. *24<sup>th</sup> AIS Pacific Asia Conference on Information Systems (**PACIS '20**)*, 20-24 June, Dubai, UAE. ORI Article (**Flagship**). **[OE area]**
  13. M. Ismail, M.I., Zakaria, N., **Ahmad, M.N.** & A. Ireda., A.M. (2020). Towards Central Repository Design for Domain Interlocking Institutional Worlds. *17<sup>th</sup> IADIS International Conference on Information Systems ([IS'20](#))*, 2<sup>nd</sup>-4<sup>th</sup> April, Sofia, Bulgaria. ORI Article (ISI, Scopus). **[KMS area]**
  14. Mohamad, U.H., Zakaria, A.M.U., **Ahmad, M.N.** & Mohd Zain., N. H. (2020). Challenges in Building Ontology for Sharing Economy Domain. *17<sup>th</sup> IADIS International Conference on Information Systems ([IS'20](#))<sup>26</sup>*, 2<sup>nd</sup>-4<sup>th</sup> April, Sofia, Bulgaria. ORI Article (ISI, Scopus). **[OE area]**

	<p>15. Bajuri, M. Y., Zamri, K.S., <b>Ahmad, M.N.</b> &amp; M. Ismail, M.I. (2019). Virtual Reality Ideal Learning: A Look into Future Medical Classroom. In. (Eds.), Advances in Visual Informatics, 6<sup>th</sup> International Visual Informatics Conference (<a href="#">IVIC '19</a>)<sup>25</sup>, 19<sup>th</sup>-21<sup>th</sup> November, Bangi, Malaysia. LNCS, 11870 (2019), xxx-yyy. ORI Article (ISI, Scopus); ISBN: 978-3-030-34031-5. <b>[KMS area]</b></p> <p>16. Alaqsam, A., Selamat, A., Alias, R., Zakaria, N.H., Puteh, F., Cheng, L.K. &amp; <b>Ahmad, M.N.</b> (2018). Using Augmented Virtual Reality to Improve English Language Learning. 17<sup>th</sup> International Conference on Intelligent Software Methodologies, Tools and Techniques (<a href="#">SOMET '18</a>), 26<sup>th</sup>-28<sup>th</sup> September, Granada, Spain. ORI Article (ISI, Scopus). <b>[KMS area]</b></p> <p>17. Wahdain, E. A., Baharudin, A.S. &amp; <b>Ahmad, M.N.</b> (2018). Big Data Analytics in the Malaysian Public Sector: The Determinants of Valuable Insights. In. (Eds.), Advances in Intelligent Systems and Computing, 3<sup>rd</sup> International Conference on Reliable Information and Communication Technologies (<a href="#">IRICT '18</a>)<sup>23</sup>, 23<sup>th</sup>-24<sup>th</sup> July, Bangi, Malaysia. 2(2018), 139-150. Review Article (ISI, Scopus); ISSN: 2194-5365. <b>[KM area]</b></p> <p>18. <b>Ahmad, M.N.</b>, Abdalla Badr, K.B., Salwana, E., Zakaria, N.H., Tahar, Z. &amp; Sattar, A. (2018). An Ontology for the Waste Management Domain. 22<sup>nd</sup> AIS Pacific Asia Conference on Information Systems (<b>PACIS '18</b>), 26<sup>th</sup>-30<sup>th</sup> June, Yokohama, Japan. ORI Article (<b>Flagship</b>). <b>[OE area]</b></p>
<b>B.6</b>	<b>BOOKS/CHAPTERS IN BOOK/EDITED BOOKS</b>
	<p>1. Badioze Zaman, H., Robinson, P., Smeaton, A.F., De Oliveira, R.L., Jørgensen, B, N., Shih, T.K., Abdul Kadir, R., Mohamad, U.H., &amp; <b>Ahmad, M.N.</b> (Eds.) (2024). Advances in Visual Informatics. Singapore: Springer. <a href="https://doi.org/10.1007/978-981-99-7339-2">https://doi.org/10.1007/978-981-99-7339-2</a>. Springer. <b>[KMS &gt;VI area]</b></p> <p>2. Benferdia, Y., <b>Ahmad, M.N.</b>, Mustafa, M., Mohamad, U.H., Leong, L.K. (2023). Ontology Development Methodology for Virtual Reality-Based Training (VRT) in Ophthalmology Domain: Phaco Cataract Surgery Case Study. In F. Zeshan., Adnan, A. (Ed.), Recent Advancements in Smart Remote Patient Monitoring, Wearable Devices, and Diagnostics Systems. Hershey, PA: IGI Global. ORI Article. ORI Article. <b>IGI Global. [OE area]</b></p> <p>3. Badioze Zaman, H., Smeaton, A.F., Shih, T.K., Velastin, S., Terutoshi, T., Mohamad Ali, N., &amp; <b>Ahmad, M.N.</b> (Eds.) (2019). Advances in Visual Informatics. Switzerland: Springer. <a href="https://doi.org/10.1007/978-3-030-34032-2">https://doi.org/10.1007/978-3-030-34032-2</a>. Springer. <b>[KMS &gt;VI area]</b></p> <p>4. Othman, M., Abdul Latif, A., Maidin, S.S., Mat Saat, M.F. &amp; <b>Ahmad, M.N.</b> (2018). Engagement of Local Heroes in Managing Flood Disaster: Lessons from the 2014 Flood of Kemaman, Terengganu, Malaysia. In D. Komatina (Ed.), Achievements and Challenges of Integrated River Basin Management. London, UK: IntechOpen. ORI Article. <b>IntechOpen. [KM area]</b></p> <p>5. Mohammad Hossein, N., <b>Ahmad, M.N.</b> &amp; Zakaria, N.H. (2017). A Benefits of Customer Relationship Management on Customer Satisfaction: An Empirical Study. In M. Tavana (Ed.),</p>

	<p>Enterprise Information Systems and the Digitalization of Business Functions. Hershey, PA: IGI Global. ORI Article. <b>IGI Global. [KM area]</b></p> <p>6. Ghani, I., Wan Kadir, W.M.N &amp; <b>Ahmad, M.N. (2014)</b>. Handbook of Research on Emerging Advancements and Technologies in Software Engineering. Hershey, PA: IGI Global. doi:10.4018/978-1-4666-6026-7. <b>IGI Global. [KMS area]</b></p> <p>7. <b>Ahmad, M.N.,</b> Colomb, R.M. &amp; Abdullah, M.S. (2012). Ontology-based Applications for Enterprise Systems and Knowledge Management. Hershey, PA: IGI Global. doi:10.4018/978-1-4666-1993-7. <b>IGI Global. [OE area]</b></p>
<b>B.7</b>	<b>MEDIA POPULAR</b>
	<ol style="list-style-type: none"> <li>1. <b>Dewan Kosmik:</b> Realiti Maya Bantu Atasi Gangguan Spektrum Autisme, eMajalah <b>Dewan Kosmik</b>, Dewan Bahasa Pustaka, online published on 18 June <b>2023</b></li> <li>2. <b>TV Al-Hijrah:</b> Temuramah berkaitan kesan AI, Program Analisis, <b>2023</b></li> <li>3. <b>Edisi Kampus:</b> UKM guna IoT perkasa sektor pertanian, Kosmo, September 2023</li> <li>4. <b>Gaya Sains:</b> Aplikasi IOT modenkan sektor pertanian, Utusan Malaysia (Edisi Gaya Sains), September <b>2023</b></li> <li>5. <b>Gaya Sains:</b> Aplikasi kenal pasti kesahihan logo halal, <b>Utusan Malaysia</b> (Edisi Gaya Sains), August <b>2020</b></li> <li>6. <b>BH Rencana:</b> Kenal pasti teknologi, inovasi tempatan gempur COVID-19, <b>Berita Harian</b> (Edisi Komentari), 18 April <b>2020</b></li> <li>7. <b>BH Inovasi:</b> Putra@Sukan urus sukan secara bersepadu, <b>Berita Harian</b> (Edisi BH Inovasi), 7 Mac <b>2019</b></li> <li>8. <b>Mega Sains:</b> ICT urus sampah, <b>Utusan Malaysia</b> (Edisi Mega Sains), 10 September <b>2018</b></li> <li>9. <b>Mega Sains:</b> Realiti Maya Tiga Dimensi, <b>Utusan Malaysia</b> (Edisi Mega Sains), 4 June <b>2018</b></li> <li>10. <b>Mega Sains:</b> SmartBin bijak urus sampah, <b>Utusan Malaysia</b> (Edisi Mega Sains), 7 June <b>2017</b></li> <li>11. <b>Mega Sains:</b> Aplikasi FloodFeed bagi persediaan banjir, <b>Utusan Malaysia</b> (Edisi Mega Sains), April <b>2017</b>.</li> </ol>
<b>B.8</b>	<b>INTELLECTUAL PROPERTY</b>
	<ol style="list-style-type: none"> <li>1. SmartBin GPS Based Fraud Detection - <b>f.3134-LY2021W00877</b> [program module for smart bins and waste solution]</li> <li>2. Methodological Phases for Production of the Virtual Reality (VR) Platform or Applications or Modules for VR-based Education and Training (VRT) in Healthcare Domain - <b>f.3134-LY2020004760</b> [conceptual framework of methodology for developing VR application]</li> <li>3. Aplikasi MySelusuri-Halal - <b>f.3145-LY2021W01383</b> [prototype for halal tracking solution]</li> <li>4. OphthalDB (basic prototype) – <b>f.2293-LY2019-006-916</b> [prototype of repository for managing ophthalmology patient data solution]</li> <li>5. GrabWaste system architecture (architecture) – <b>f.2177-LY2019-003-439</b> [conceptual framework of grab waste management solution]</li> <li>6. Ontology-based Knowledge Integration Framework for Flood Management (FM) in Malaysia</li> </ol>



	(architecture) – <b>4L808-0353-16</b> [conceptual framework of flood management system solution]
	7. FloodFeed – A Low Cost Mobile Crowdsourcing Flood Sensor Initiative (basic prototype) – <b>4L808-0359-16</b> [prototype of flood feed sensor system solution]
<b>SECTION C – RESEARCH PROJECTS / GRANTS</b>	
<b>C.1</b>	<b>TRANSLATIONAL GRANTS - INDUSTRY</b>
	<ol style="list-style-type: none"> <li>1. <b>ZG-2024-001</b> - <i>Kajian Pembangunan Sistem Inovasi “KDEBS iTrading - the iTRADE” berpandukan Ontologi Aplikasi e-Dagang. “A Study on KDEBS iTrading – The iTRADE” Innovation Systems Development based on Application Ontology of e-Commerce”</i> / <b>Alunan Muhibbah</b> / <a href="#">In Progress</a> / Principal Investigator (PI) / MYR 26,000.00</li> <li>2. <b>ZG-2023-001</b> - <i>Kajian Rintis Inovasi Tong Sampah Pintar untuk KDEB Waste Management Sdn Bhd / <b>KDEBWM</b> / <a href="#">In Progress</a> / Principal Investigator (PI) / MYR 50,000.00</i></li> <li>3. <b>ZG-2022-008</b> - <i>OntoEXAM: A Conceptual Model to Facilitate the Integration of eProctor Module on ExamSINI Online Exam Solution</i> / <b>Global Academic Excellence (GAE)</b> / Completed / Principal Investigator (PI) / MYR 10,000.00</li> <li>4. <b>ZG-2022-003</b> - <i>An Ontology-based Cloud Data Synchronization for Hydroponic-based Smart Farming Operations</i> / <b>ARB Cloud Sdn Bhd</b> / Completed / Principal Investigator (PI) / MYR 20,000.00</li> <li>5. <b>ZG-2021-001</b> - <i>A Study of Central Repository Design for Supporting Domain of Interlocking Institutional Worlds: A Case Study of Flood Management</i> / <b>Integrasi Erat Sdn Bhd (IESB)</b> / Completed / Principal Investigator (PI) / MYR 20,000.00</li> <li>6. <b>ZG-2021-005</b> - <i>Using UI/UX design Best Practices for Designing a Virtual Reality (VR) Marketplace Web Portal for the Healthcare Domain</i> / <b>Integrasi Erat Sdn Bhd (IESB)</b> / Completed / Principal Investigator (PI) / MYR 10,000.00</li> <li>7. <b>FF-2019-127</b> - <i>Development of Webs Design in Company Data for File and Inventory</i> / <b>Nova Medika</b> / Completed / Member / MYR 15,000.00</li> <li>8. <b>ZG-2018-006</b> - <i>A Prototype Development of the SmartBin Waste Management Systems for Majlis Perbandaran Shah Alam (MBSA) - Module I. {Continuance intention research}</i> / <b>AftaCop</b> / Completed / Principal Investigator (PI) / MYR 54,815.00</li> <li>9. <b>ZG-2018-005</b> - <i>Development of the Smart Halal License Identification System (HLIS)</i> / <b>GATES</b> / Completed / Principal Investigator (PI) / MYR 15,000.00</li> </ol>
<b>C.2</b>	<b>FUNDAMENTAL &amp; TRANSLATIONAL GRANTS – GOVERNMENT / AGENCIES</b>
	<ol style="list-style-type: none"> <li>1. <b>ZG-2023-005</b> - <i>Research on Solution Development "Secure Exam (SECEXAM)" for Secured Data Management (Kajian Inovasi Pembangunan Solusi "SECEXAM" bagi Pengurusan Data Selamat)</i> / <b>Majlis Peperiksaan Malaysia (MPM)</b> / <a href="#">In Progress</a> / Principal Investigator (PI) / MYR 19,999.00</li> <li>2. <b>ZG-2023-005</b> - <i>Stress Testing on Online Exam Platform from the Lens of MPM Computer Server Infrastructure Capability (Kajian Analisa Prestasi Sistem Peperiksaan Atas-Talian dari Perspektif</i></li> </ol>

	<p><i>Keupayaan Infrastruktur Komputer Pelayan / <b>Majlis Peperiksaan Malaysia (MPM)</b> / Completed / Principal Investigator (PI) / MYR 17,800.00</i></p> <p>3. <b>ZG-2023-002</b> - <i>Inovasi Pembangunan Sistem Letak Kereta Pintar "Kemaman Park (K-Park)" Majlis Perbandaran Kemaman / <b>Majlis Perbandaran Kemaman (MPK)</b> / <a href="#">In Progress</a> / Principal Investigator (PI) / MYR 37,500.00</i></p> <p>4. <b>ZG-2022-013</b> - <i>OntoPCM: An Ontology to represent a domain model to support building Smart Panel Clinic Management System (SPCMS v1.0) / <b>Majlis Perbandaran Kemaman (MPK)</b> / Completed / Principal Investigator (PI) / MYR 10,000.00</i></p> <p>5. <b>ZG-2021-006</b> - <i>An Investigation of Applying Subscription-based Online Exams during Covid-19 Pandemic: A Case Study for IKLA Exam / <b>Majlis Peperiksaan Malaysia (MPM)</b> / Completed / Principal Investigator (PI) / MYR 19,900.00</i></p> <p>6. <b>ZG-2021-004</b> - <i>An Investigation of Critical Success Factors on Applying Online Exams during Covid-19 Pandemic: A Case Study at Majlis Peperiksaan Malaysia (MPM) / <b>Majlis Peperiksaan Malaysia (MPM)</b> / Completed / Principal Investigator (PI) / MYR 19,900.00</i></p> <p>7. <b>TRGS -/1/2020/UKM/02/6/2</b> – <i>Design of Ontology-based Virtual Reality (VR) Module for Social Skills Training Among Youths with High Functioning Autism Spectrum Disorder (HFASD) / <b>Ministry of Higher of Education (MOHE)</b> / Completed / Principal Investigator (PI) / MYR 207,800.00</i></p> <p>8. <b>ZG-2019-002</b> - <i>Development of SmartBin Waste Management Systems for 1Terengganu / <b>Terengganu Local Councils (SUK)</b> / Completed / Principal Investigator (PI) / MYR 95,000.00</i></p> <p>9. <b>ZG-2018-003</b> - <i>A Prototype Development of the SmartBin Waste Management Systems for Majlis Perbandaran Kemaman (MPK) - Module II / <b>Majlis Perbandaran Kemaman (MPK)</b> / Completed / Principal Investigator (PI) / MYR 19,980.00</i></p> <p>10. 4L808 (2012-2016) LRGS - <i>Enterprise Ontology for Flood Management Domain: Impact, Reduction &amp; Relief / <b>UTM</b> / Completed / Member / MYR 200,300.00</i></p> <p>11. 4L809 (2012-2016) LRGS - <i>Knowledge Integration Model for Flood Management Domain / <b>UTM</b> / Completed / Member / MYR 100,000.00</i></p>
<b>C.3</b>	<b>FUNDAMENTAL &amp; TRANSLATIONAL GRANTS - INTERNAL GRANTS</b>
	<p>1. <b>GGPM-2019-068</b> – <i>The Application of Virtual Reality in Reducing Labour Pain / <b>UKM</b> / Completed / Member / MYR 50,000.00</i></p> <p>2. <b>GUP-2018-125</b> - <i>Towards “Zero Waste” using GrabWaste solution / <b>UKM</b> / Completed / Principal Investigator (PI) / MYR 60,000.00</i></p> <p>3. <b>KRA-2018-027</b> - <i>Virtual Reality Application in Community Village Project / <b>UKM</b> / Completed / Member / MYR 35,000.00</i></p> <p>4. <b>INOVASI-2018-003</b> - <i>Virtual Reality in Total Ankle Replacement Surgery / <b>UKM</b> / Completed / Member / MYR 84,100.00</i></p>

<b>C.4</b>	<b>INTERNATIONAL GRANTS</b>
1.	<b>ZG-2023-004 - Building Smart Farming Ecosystem Business Model Incorporating Academic Research &amp; Industry / ARB IOT Group Limited / In Progress / Principal Investigator (PI) / MYR 22,828.00</b>
<b>SECTION D – PARTICIPATION IN CONFERENCES / SEMINAR / WORKSHOP</b>	
<b>D.1</b>	<b>NATIONAL &amp; INTERNATIONAL – PRESENTER / KEYNOTE / SPEAKER</b>
1.	<b>Guest Speaker</b> , “ <i>Seminar: Academic Research for Industry Perspective – Design Science Research Approach</i> ”, USU Postgraduate Seminar <b>2023</b> , Universiti Sumatera Utara (USU), Sumatera, <b>Indonesia</b> , 4 December <b>2023</b>
2.	<b>Keynote Speaker</b> , “ <i>Workshop: Translational Research - Research Opportunities in Smart Farming Ecosystem</i> ”, IUKL Postgraduate Colloquium 2023, Infrastructure University Kuala Lumpur (IUKL), Kajang, Selangor, <b>Malaysia</b> , 23-24 January <b>2024</b>
3.	<b>Guest Speaker</b> , “ <i>Workshop: Academic Research for Industry Perspective – Design Science Research Approach</i> ”, 7 <sup>th</sup> Information Systems International Conference (ISICO’23), Double Tree by Hilton Hotel, Sanur, Bali, <b>Indonesia</b> , 27 July <b>2023</b>
4.	<b>Guest Speaker</b> , “ <i>Seminar: Academic Research for Industry Perspective – Design Science Research Approach</i> ”, Universiti Teknologi MARA (UiTM), <b>Malaysia</b> , 25 September <b>2023</b>
5.	<b>Guest Speaker</b> , “ <i>Symposium: Information Systems – Academic &amp; Industry</i> ”, INTI International University, <b>Malaysia</b> , 22 August <b>2022</b>
6.	<b>Guest Speaker</b> , “ <i>Lecture Class: Design Science Research Methodology</i> ”, Universiti Teknologi Petronas (UTP), Bandar Seri Iskandar, Perak, <b>Malaysia</b> , 2 March <b>2021</b>
7.	<b>Guest Speaker</b> , “ <i>Workshop: Design Science Research Methodology</i> ”, IUKL Postgraduate Colloquium 2021, Infrastructure University Kuala Lumpur (IUKL), Kajang, Selangor, <b>Malaysia</b> , 20 January <b>2021</b>
8.	<b>Guest Speaker</b> , “ <i>Lecture Class: Academic Innovation for Industry</i> ”, Azman Hashim International Business School (AHIBS), <b>Malaysia</b> , 31 January <b>2021</b>
9.	<b>Guest Speaker</b> , “ <i>Seminar: Sistem Pengurusan Inventori Nenas</i> ”, Lembaga Perindustrian Nanas Malaysia (LPNM), <b>Malaysia</b> , 27 August <b>2020</b>
10.	<b>Track Chair</b> , “ <i>Conference: Information Systems Implementation, Adoption and Diffusions</i> ”, 6 <sup>th</sup> International Conference on Research & Innovation in Information Systems (ICRIIS’19), Double Tree by Hilton Hotel, Johor Bahru, Johor, <b>Malaysia</b> , 2-3 December <b>2019</b>
11.	<b>Track Chair</b> , “ <i>Conference: Information Systems for Business and Healthcare</i> ”, 6 <sup>th</sup> International Conference on Research & Innovation in Information Systems (ICRIIS’19), Double Tree by Hilton Hotel, Johor Bahru, Johor, <b>Malaysia</b> , 2-3 December <b>2019</b>
12.	<b>Keynote Speaker</b> , “ <i>Conference: SmartBMS for Waste Management</i> ”, Sustainable & Integrated Engineering International Conference (SIE’19), Hotel Everly Hotel, Putrajaya, Malaysia, organized by Universiti Teknologi Malaysia (UTM), <b>Malaysia</b> , 8-9 December <b>2019</b>

	<p>13. <b>Presenter</b>, “Conference: Issues in designing ontology for waste management: A Systematic Reviews of Papers from 2002-2017”, <a href="#">ICCST’19</a>, Hilton Hotel, Kota Kinabalu, Sabah, <b>Malaysia</b>, 29-30 August <b>2019</b></p> <p>14. <b>Presenter</b>, “<i>Conference: Essential Requirements for Central Repository of Domain Interlocking Institutional Worlds</i>”, <a href="#">ICCST’19</a>, Hilton Hotel, Kota Kinabalu, Sabah, <b>Malaysia</b>, 29-30 August <b>2019</b></p> <p>15. <b>Guest Speaker</b>, “<i>Workshop: Publish at PACIS 2020</i>”, EDC Hotel, Sintok, Kedah, <b>Malaysia</b>, 27 July 2019</p> <p>16. <b>Guest Speaker</b>, “<i>Conference: VR &amp; AR</i>”, 2nd Malaysian Society for Simulation in Healthcare (MaSSH’19), Seremban, <b>Malaysia</b>, organized by MaSSH, 15<sup>th</sup> July <b>2019</b></p> <p>17. <b>Track Chair</b>, “<i>Conference: Parallel Session II-Data Science, AI and IoT Trends for the Fourth Industrial Revolution</i>”, <a href="#">IRICT’18</a>, Hotel Bangi-Putrajaya, Bangi, Selangor, <b>Malaysia</b>, 23 June <b>2018</b></p> <p>18. <b>Presenter</b>, “<i>Conference: An Ontology for the Waste Management Domain</i>”, AIS Pacific Asia Conference on Information Systems (PACIS’18), Yokohama, <b>Japan</b>, organized by AIS, 26th-30th June <b>2018</b></p>
<b>D.2</b>	<b>NATIONAL &amp; INTERNATIONAL – COMMITTEE MEMBER / OTHERS</b>
	<ol style="list-style-type: none"> <li>1. Program Committee Member (PC) for .....</li> <li>2. Program Committee Member (PC) for .....</li> <li>3. Program Committee Member (PC) for .....</li> <li>4. Program Committee Member (PC) for .....</li> <li>5. Program Committee Member (PC) for .....</li> <li>6. Program Committee Member (PC) for .....</li> <li>7. Program Committee Member (PC) for .....</li> <li>8. Program Committee Member (PC) for .....</li> <li>9. Program Committee Member (PC) for .....</li> <li>10. Program Committee Member (PC) for .....</li> </ol>
<b>SECTION E – PROFESSIONAL SERVICES</b>	
<b>E.1</b>	<b>ACADEMIC SERVICE - PROGRAM COMMITTEE / VISITING / ADVISOR / EXAMINER</b>
	<ol style="list-style-type: none"> <li>1. <b>External Grant Examiner</b> for Malaysian Research University Network (MRUN), <b>2024</b></li> <li>2. <b>Exam Paper Examiner</b> for Information Systems Management Course, Kolej Universiti Islam Malaysia (KUIS), Selangor, Malaysia, <b>2024</b></li> <li>3. <b>Visiting Professor</b> at Universiti Tenaga National, UNITEN, <b>2024-2026</b></li> <li>4. <b>Board Member</b> for IT Program at University Malaysia Sabah (UMS), Sabah, Malaysia, <b>2024-2025</b></li> <li>5. <b>External Assessor</b> for APEL.Q, Open University Malaysia (OUM), <b>2024-2025</b></li> <li>6. <b>Exam Paper Examiner</b> for Data Science Course, Kolej Universiti Islam Malaysia (KUIS), Selangor, Malaysia, <b>2023</b></li> <li>7. <b>Adjunct Professor</b>, Infrastructure University Kuala Lumpur (IUKL), Malaysia, <b>2023-2026</b></li> <li>8. <b>Visiting Professor</b> at University of Dubai (UoD), UAE, <b>2023</b></li> </ol>

	<ol style="list-style-type: none"> <li>9. <b>Academic Advisor</b> on Bachelor of Information Systems program at Kolej Universiti Islam Malaysia (KUIS), Selangor, Malaysia, <b>2019-2025</b>.</li> <li>10. <b>Visiting Professor</b>, Infrastructure University Kuala Lumpur (IUKL), Malaysia, <b>2019-2023</b></li> <li>11. <b>Examiner</b> on Computer Science Matriculation Exam Paper at Matriculation Division, Ministry of Education (MOE), Putrajaya, Malaysia, <b>2018-2020</b></li> <li>12. <b>Examiner Group Leader</b> on Computer Science Matriculation Exam Paper at Matriculation Division, Ministry of Education (MOE), Putrajaya, Malaysia, <b>2018-2020</b></li> <li>13. <b>Assessor</b> on Computer Science Matriculation Exam Paper at Matriculation Division, Ministry of Education (MOE), Putrajaya, Malaysia, <b>2018</b></li> <li>14. <b>Visiting Research Fellow</b>, Applied Science University, Manama, Bahrain, <b>2017</b></li> <li>15. <b>ICT Academic Fellow</b>, Centre for Information &amp; Communication Technology, Universiti Teknologi Malaysia, Malaysia, <b>2017-2018</b></li> </ol>
<b>E.2</b>	<b>ACADEMIC SERVICE - EDITOR / REVIEWER</b>
	<ol style="list-style-type: none"> <li>1. <b>Editor-in-Chief</b> for <a href="#">Journal of Information Systems &amp; Technology Management (JISTM)</a>, MyCITE, Malaysia, <b>2022-present</b></li> <li>2. <b>Editorial Board Member</b> for <a href="#">International Review of Applied Sciences &amp; Engineering (IRASE)</a>, Scopus, Hungary, <b>2022-present</b></li> <li>3. <b>Reviewer</b> for <a href="#">International Journal of Disaster Risk Reduction</a>, Elsevier, 4.2 Impact Factor</li> <li>4. <b>Reviewer</b> for <a href="#">Expert Systems with Applications</a>, Elsevier, 7.5 Impact Factor</li> <li>5. <b>Reviewer</b> for <a href="#">Automation in Construction</a>, Elsevier, 9.6 Impact Factor</li> <li>6. <b>Reviewer</b> for <a href="#">Communications of the Association for Information Systems</a>, AIS</li> <li>7. <b>Reviewer</b> for <a href="#">Mathematical Methods of Operations Research</a>, Springer, 0.9 Impact Factor</li> <li>8. <b>Reviewer</b> for <a href="#">Information &amp; Management</a>, Springer, 8.2 Impact Factor</li> </ol>
<b>E.3</b>	<b>ACADEMIC SERVICE - THESIS EXAMINERS</b>
	<ol style="list-style-type: none"> <li>1. Chng Chern Wei, "Cloud Based ERP System (CBES) Security Using a Dynamic Password Encryption Algorithm &amp; Programming Approach in Data Security", The <b>Infrastructure Universiti Kuala Lumpur (IUKL)</b>, Malaysia, May-<b>2024</b> – [UKM]</li> <li>2. Rozita Husain, "Significant Automobile Carbon Dioxide (CO2) Emission Factors for an Environmentally Friendly Automotive Framework using Artificial Neural Network (ANN) Technology", The <b>Universiti Pertahanan Negara Malaysia (UPNM)</b>, Malaysia, January-<b>2024</b> – [UKM]</li> <li>3. Sadaf Hafeez, "Role of ICT Ecosystem in Innovation: An Empirical Investigation of Chinese Internet Companies Using Layer Model Approach", The <b>Universiti Teknologi Petronas (UTP)</b>, Malaysia, September-<b>2023</b> – [UKM]</li> <li>4. Maryam Ahmad, "Towards Exploring the Influencing Factors of Students' Level of Readiness in Adopting Online Learning: Application of Educational Data Mining Techniques", The <b>Universiti Teknologi Petronas (UTP)</b>, Malaysia, February-<b>2023</b> – [UKM]</li> </ol>

5. Mekhala Hansini Adhikari Egodawele, “Exploring the Role of Resources in Digital Transformation Initiatives”, The **Southern Cross University (SCU)**, Malaysia, August-2023 – [UKM]
6. Tung Soon Seng, “Knowledge Creation in Information Technology Project to Enhance Digital Innovation”, The **Malaysia Multimedia University (MMU)**, Malaysia, February-2023 – [UKM]
7. Saira Nawaz, “Internet of Things Based Patient-Centered Care Model for Elderly Healthcare”, The **Universiti Utara Malaysia (UUM)**, Malaysia, October-2022 – [UKM]
8. Atiff Abdalla Mahmoud Arabi, “A Zero Trust Model Based Framework for Prevention of Network Based Academic Dishonesty in Decentralized Learning”, The **Infrastructure Universiti Kuala Lumpur (IUKL)**, Malaysia, Sept-2022 – [UKM]
9. Marym Mohamad Razip, “The Development of a Sustainable Household IoT E-waste Management Guideline for Malaysia”, The **Universiti Teknologi Petronas (UTP)**, Malaysia, Jan-2021 – [UKM]
10. Izatul Lail Mohd Yasar, “Development of Diagnostic Applications for Meliponiculture in Malaysia”, The **Universiti Putra Malaysia (UPM)**, Malaysia, December-2021 – [UKM]
11. Mohamad Firdaus Mat Saad, Agile Information-based Framework for Flood Management, The **Universiti Tenaga Nasional (UNITEN)**, Malaysia, February-2020 – [UKM]
12. Jalal Mohammed Hachim Al-Kanaani, “Design and Implementation of New Hybrid Sine Cosine T-way Testing Strategy”, The **Universiti Malaysia Perlis (UNIMAP)**, Malaysia, Nov-2020 – [UKM]
13. Saif Salim Khalfan Al Muzahmi, Knowledge Management in Oil and Gas Domain: Framework for Knowledge Sharing Systems, The **Universiti Utara Malaysia (UUM)**, Malaysia, October-2019 – [UKM]
14. Kaiss Ali Abd Elghariani, Implicit Thinking Knowledge Injection Framework for Software System Requirements Documentation in Agile Methodology, The **Universiti Teknologi Malaysia (UTM)**, Malaysia, April-2019 – [UKM]
15. Nuraminah Ramli, The Design of T-Way Test Suite Generator Supporting Uniform Strength, Variable Strength and Input-Output Based Relations, The **Universiti Malaysia Perlis (UNIMAP)**, Malaysia, Mac-2019 – [UKM]
16. Khalil Salah, A Protocol to Support Real-time Cross Network Authentication in Electric Vehicles’ Network Using Representational State Transfer Web Interface, The **Universiti Teknologi Malaysia (UTM)**, Malaysia, July-2018 – [UKM]
17. Muhaned Thiab Mahdee Al-Hashimi, A New Method to Select Information Security Governance Framework in Cloud Computing using Multi-Criteria Decision Making Approach, The **Universiti Tenaga Nasional (UNITEN)**, Malaysia, July-2018 – [UKM]
18. Sanath Sukumaran, Development of Software Requirement Elicitation Framework for Knowledge Management Systems (KMS) using AT and DART, The **Asia e University (AeU)**, Malaysia, January-2015

19. Siti Hajar Othman, Metamodelling Approach for Managing Disaster Management Knowledge, The University of Wollongong (UoW), Australia, July-2012	
<b>E.4</b>	<b>PROFESSIONAL BODIES – ASSOCIATION MEMBERSHIP</b>
<ol style="list-style-type: none"> <li>1. <b>Associate Member</b> (MPN031022) for Majlis Professor Negara (MPN), <b>2023-present</b></li> <li>2. <b>Member</b> for Association for Information Systems (AIS), <b>2023-present</b></li> <li>3. <b>Member (Lifetime)</b> for Association for Information Systems, Malaysian Chapter (MyAIS)</li> <li>4. <b>Member</b> of the International Associations for Ontology and Its Applications (IAOA), <b>2013-present</b></li> </ol>	
<b>E.5</b>	<b>COMMUNITY SERVICES – PANEL / VOLUNTEER / EXAMINER / ADVISOR</b>
<ol style="list-style-type: none"> <li>1. <b>Publication Committee Member</b>, Association for Information Systems, Malaysian Chapter (MyAIS), <b>2024-2026</b></li> <li>2. <b>Research Advisory Panel</b> for Majlis Perbandaran Kemaman (MPK), Kemaman, Terengganu, <b>2023-2025</b></li> <li>3. <b>Exco I (Technology)</b>, Association for Information Systems, Malaysian Chapter (MyAIS), <b>2022-2024</b></li> <li>4. <b>Volunteer</b> on Student registration task force at Sekolah Sultan Alam Shah during Covid-19 pandemic, Sekolah Sultan Alam Shah, Putrajaya, Malaysia, <b>2021</b></li> <li>5. <b>Academic Panel Advisor</b>, Kolej Universiti Islam Selangor (KUIS), Malaysia, <b>19 Sept 2019 – present;</b></li> <li>6. <b>Exco II (Technology &amp; Corporate)</b>, Association for Information Systems (Malaysian Chapter), <b>2018-2020</b></li> <li>7. <b>ICT Advisor</b>, NGO Lestari Alam Malaysia, Malaysia, <b>2018-2020</b></li> </ol>	
<b>E.6</b>	<b>INDUSTRY SERVICES – PL / CPL / ADVISOR / CTO / CSO / CBO</b>
<ol style="list-style-type: none"> <li>1. <b>Project Leader (PL)</b>, <i>Pentest for Online Exam Platform at Majlis Peperiksaan Malaysia</i>, (MPM-UKM), <b>2023</b></li> <li>2. <b>Project Leader (PL)</b>, <i>Development of the SmartBin Waste Management Systems 2.5</i>, (KDEBW-UKM), <b>2023-2024</b></li> <li>3. <b>Co-Project Leader (CPL) – Flagship Project: AIOT Smart Vending Machine for Academia-Industry Collaboration, (ARB-UKM) – <b>2022-present</b></b></li> <li>4. <b>Project Leader (PL)</b>, <i>Online Exam Platform for Majlis Peperiksaan Malaysia, IKLA Case Study</i>, (MPM-UKM), <b>2021-2022</b></li> <li>5. <b>Project Leader (PL)</b>, <i>Online Exam Platform for Majlis Peperiksaan Malaysia, Medex Case Study</i>, (MPM-UKM), <b>2021-2022</b></li> <li>6. <b>Project Leader (PL) – Flagship Project: Smart Farming Project Ecosystem for Academia-Industry Collaboration, (ARB-UKM) – <b>2021-present</b></b></li> <li>7. <b>Co-Project Leader (CPL) – Consultancy Project: Pelan Strategik Pendigitalan Pendaftar Mahkamah Persekutuan Malaysia 2021-2025, (IESB-UTM-UKM) – <b>2021-2023</b></b></li> <li>8. <b>ICT Scientist Officer (CSO)</b> for ARB Berhad, <b>2021</b></li> </ol>	



9. **ICT Technical Advisor (CTO)** for Aberys Innovation Sdn Bhd, **2021**
10. **Project Leader (PL)**, *Development of SmartBin Waste Management Systems for 1Terengganu - Module II*, (MPK - UKM), **2019-2021**
11. **Project Leader (PL)**, *Development of the SmartBin Waste Management Systems - Module II*, (Majlis Perbandaran Kemaman (MPK), UKM-CRIM), **2018-2019**
12. **Project Leader (PL)**, *Development of the SmartBin Waste Management Systems - Module I*, (MBSA - UKM), **2018-2019**
13. **Project Leader (PL)**, *Development of the Smart Halal License Identification Systems*, (Gates IT Sdn. Bhd - UKM), **2018-2019**
14. **Project Leader (PL)**, *Development of the Putra Sukan System for UPM*, (Pusat Sukan-UPM - UKM), **2018-2019**
15. **ICT Business Consultant (CBO)**, Integrasi Erat Sdn. Bhd, IT Solution Small Medium Enterprise Company, Malaysia, **2017-2022**
16. **Co-Project Leader (CPL)**, *Pentest*, (Yayasan Pahang - UTM), **2017-2018**
17. **Co-Project Leader (CPL)**, *Business Intelligence for Universiti Malaysia Pahang*, (UMP - UTM), **2017-2018**
18. **Project Leader (PL)**, *Using ontology for Business Process Compliance (BPC) during requirement engineering*, (Gates IT Solution Sdn Bhd - UTM), **2015-2017**
19. **ICT Chief Scientist Officer (CSO)**, Gates IT Sdn. Bhd, IT Solution Small Medium Enterprise Company, Malaysia, **2015-2016**
20. **ICT Academic Consultant (CSO)**, GR Tech Sdn. Bhd, IT Solution Small Medium Enterprise Company, Malaysia, **2016-2017**
21. **ICT Scholar Internship (CSO)**, Internship at Integrasi Erat Sdn. Bhd, IT Solution Small Medium Enterprise Company, Malaysia, **2015-2017**
22. **ICT Business Consultant (CBO)**, Business consultant, GreatLife Physio and Rehabilitation, **2013-2015**

## REFERENCES

1.	Name	Assoc. Prof. Dr. Rabiah Abdul Kadir
	Occupation	Director, Institute of Visual Informatics (IVI), UKM
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	Address	IVI, Bangunan Akademia Siber Teknologis (AST), UKM, Bangi, 43600, Selangor

2.	Name	Professor Emeritus Dato Dr Halimah Badioze Zaman
	Occupation	Research Fellow
	Email	nil



	Address	Institute of Informatics and Computing in Energy, UNTEN
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