

CURRICULUM VITAE



PERSONAL DETAILS			
Full Name		Iskandar bin Ishak	
Citizenship		Race	Gender
Malaysia		Malay	Male
Designation		Date Of Birth	
Associate Professor		7/6/1979	

Department/Faculty	E-Mail
Department Of Computer Science. Faculty Of Computer Science And Information Technology, UPM Serdang	iskandar_i@upm.edu.my
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ACADEMIC QUALIFICATION			
Certificate / Qualification obtained	Name of School / Institution	Year Obtained	Area of Specialization
Bachelor of Information Technology (Hons)	UNITEN	2002	Information Technology
Master of Technology (Information Technology)	Royal Melbourne Institute of Technology (RMIT) University	2003	Information Technology, Database
Doctor of Philosophy (Computer Science)	University Teknologi Malaysia	2011	Database, Peer-to-peer networking, Information Retrieval

EMPLOYMENT				
Employer	Designation	Department	Start Date	Date Ended
Universiti Putra Malaysia	Tutor	Computer Science	July 2004	August 2011
Universiti Putra Malaysia	Senior Lecturer	Computer Science	4 August 2011	31 April 2023
Universiti Putra Malaysia	Associate Professor	Computer Science	1 May 2023	-

ADMINISTRATION			
Position	Department	Start Date	Date Ended
Deputy Dean (Research, Innovation and Industry and Community Relations)	Faculty of Computer Science & Information Technology, UPM	Feb 2024	Feb 2027
Head, Laboratory of Halal Management and Policy	Institute of Halal Product Research Institute, UPM	Sept 2023	Feb 2024

HONOURS AND AWARDS				
Name of awards	Title	Award Authority	Award Type	Year
Academic Awards	1. PicTL (Silver) 2020	1. UPM	1. Innovation	1. 2020
	2. PRPI (Gold) 2014	2. UPM	2. Research	2. 2014
	3. PECIPTA (Bronze)	3. PECIPTA	3. Research	3. 2014
	4. NUCC 2019 (Silver)	4. UNICC	3. Innovation	4. 2019
Non-Academic Awards	Anugerah Perkhidmatan Cemerlang	UPM	SERVICE	2016, 2022

LIST OF PUBLICATIONS (Selected publications)	
Journal	<p>Abdul Mustapha, Iskandar Ishak, Nor Nadiha Mohd Zaki, Mohammad Rashedi Ismail-Fitry, Syariena Arshad, Awis Qurni Sazili, Application of Machine Learning approach on Halal meat authentication principle, challenges, and prospects: A Review, Heliyon, 2024,e32189, ISSN 2405-8440,https://doi.org/10.1016/j.heliyon.2024.e32189. IF: 4.0 [JCR]</p> <p>K. A. Sattar, I. Ishak, L. S. Affendey and S. N. B. Mohd Rum, "Road Crash Injury Severity Prediction Using a Graph Neural Network Framework," in IEEE Access, vol. 12, pp. 37540-37556, 2024, doi: 10.1109/ACCESS.2024.3373885. IF: 3.9. [JCR].</p> <p>Li Caiwen, Iskandar Ishak, Maslina Zolkepli, Hamidah Ibrahim, Fatimah Sidi and Li Caili. Deep-Learning-based Recommendation Systems: Systematic Literature Review and Classification. in IEEE Access, vol. 11, pp. 113790-113835, 2023, doi: 10.1109/ACCESS.2023.3323353. IF: 3.9. [JCR].</p> <p>Albaom, M.A., Sidi, F., Jabar, M.A., Abdullah, R., Ishak, I., Yunikawati, N.A., Priambodo, M.P. Nusari, M.S. Ali, D.A. The Moderating Role of Personal Innovativeness in Tourists' Intention to Use Web 3.0 Based on Updated Information Systems Success Model. Sustainability 2022, 14, 13935. https://doi.org/10.3390/su142113935. [SCOPUS, JCR].</p>

	<p>U. A. Bakar, F. Sidi, M. A. Jabar, R. N. H. B. Nor, S. Abdullah and I. Ishak, "A Multistage Analysis of Predicting Public Resilience of Impactful Social Media Crisis Communication in Flooding Emergencies," in IEEE Access, vol. 10, pp. 57266- 57282, 2022, doi: 10.1109/ACCESS.2022.3176963. [SCOPUS, JCR].</p> <p>Mustafa Alabadla, Fatimah Sidi, Iskandar Ishak, Hamidah Ibrahim, Lilly Suriani Affendey, and Hazlina Hamdan. 2022. ExtralImpute: A Novel Machine Learning Method for Missing Data Imputation, Journal of Advances in Information Technology, Vol. 13, No. 5, pp. 470-476. [SCOPUS].</p> <p>Norwini Zaidi, Iskandar Ishak, Fatimah Sidi, Lilly Suriani Affendey. An Efficient Schema Transformation Technique for Data Migration from Relational to Column-Oriented Databases. 2022. In Computer System Science and Engineering, vol. 43, no. 3, pp. 1175-1188. IF: 1.486 [SCOPUS, JCR].</p> <p>Bakar UA, Jabar MA, Sidi F, Nor RB, Abdullah S, Ishak I. How social media crisis response and social interaction is helping people recover from Covid-19: an empirical investigation. J Comput Soc Sci. 2022; 5(1): 781-809. Doi: 10.1007/s42001-021-00151-7. Epub 2021 Nov 1. PMID: 34746496; PMCID: PMC8559916. [SCOPUS, JCR].</p> <p>U. A. Bakar, F Sidi, MA Jabar, RNH Nor, S Abdullah, I Ishak, M Alabadla. How Advanced Technological Approaches Are Reshaping Sustainable Social Media Crisis Management and Communication: A Systematic Review. 2022. In Sustainability, vol. 14 (10), 5854. IF: 3.889 [SCOPUS, JCR].</p> <p>Wahab, R.A.S.R., Rum, S.N.M., Ibrahim, H., Sidi, F., Ishak, I. A Method for Processing Top-K Continuous Query on Uncertain Data Stream In Sliding Window Model. 2021. In WSEAS Transactions on Systems and Control, 16, art. no. 22, pp. 261-269. [SCOPUS].</p> <p>Jaya, M.I., Sidi, F., Bakar, U.A., Ishak, I., Ibrahim, H., Affendey, L.S., Jabar, M.A., Devaraj, N.K., Alabadla, M. Trust Score Measurement Method for Web Donor Selection and Imputation Of Missing Values. 2021. In Journal of Theoretical and Applied Information Technology, 99 (24), pp. 5898-5909. [SCOPUS].</p> <p>Albaom, Mohammed & Sidi, Fatimah & Jabar, Marzanah & Abdullah, Rusli & Ishak, Iskandar & Yunikawati, Nur & Priambodo, Magistyo & Husen, Jati & Issac, Ossama & Al-Harasi, Abdo. (2021). The Impact of Tourist's Intention to Use Web 3.0: A Conceptual Integrated Model Based On TAM & DMISM. Journal of Theoretical and Applied Information Technology. 99(24), pp. 6222-6238. [SCOPUS]</p>
<i>Chapter in book</i>	<p>Sidek Hj Ab Aziz, Iskandar Ishak, Hizmawati Madzin, Mohd Rizal Hussain, Nur Izura Udzir dan Hanafiah Ayub (2021), "Dinamika Teknologi Maklumat dan Komunikasi", In Isa, S. S., Udzir, N. I dan</p>

	<p>Sulaiman M. R. (Eds.), Modul Pembangunan Profesionalisme Pelajar, 2021, Penerbit UPM, pp. 102-108.</p> <p>I. Ishak and N. Salim (2009), "Peer-to-Peer As An Information Resources And Searching Techniques Across The Peer-to-Peer Networks", In A.Z. Abu Bakar, R. Ibrahim and N. Zakaria (Eds.), Database and Text Processing Application, UTM Press, pp.:131-149.</p> <p>I. Ishak and N. Salim (2009), "Query Similarity Based Search In Unstructured Peer-to-Peer Networks", In A.Z. Abu Bakar, R. Ibrahim and N. Zakaria (Eds.), Database and Text Processing Application, UTM Press, pp.:150-163.</p>
<i>Proceedings</i>	<p>Y. P. Faniband, I. Ishak, F. Sidi, M. A. Jabar and D. S. R. C. H. Yap, "An Efficient Distributed Framework for Secured Multimedia Content Using Cloud Storage," 2023 2nd International Conference on Computer Technologies (ICCTech), Kuantan, Malaysia, 2023, pp. 57-63, doi: 10.1109/ICCTech57499.2023.00019.</p> <p>Yunus Parvej Faniband, Iskandar Ishak, Fatimah Sidi, Marzanah A Jabar, "Enhancing Mobile Backend as a service framework to support synchronization of large object", Proceedings of the 2017 International Conference on Information Technology (ICIT 2017), 2017, pp. 383-387.</p> <p>Iskandar Ishak, Nur Shahirah Abdul Rahman, Hazlina Hamdan, Fatimah Sidi, "Merit2U: An IoT-based merit point management system for university students' hostel application", International Symposium on Consumer Electronics 2017, 2017, pp. 76-77.</p> <p>Fatimah Sidi, Iskandar Ishak, Lilly Suriani Affendey, "Data Visualization for Agricultural Data: Benefits And Challenges", International Conference on Big Data Application on Agriculture 2017.</p> <p>Siti Nuradilah Azman, Iskandar Ishak, Nurfadhlin Mohd Sharef, Fatimah Sidi (2017), "Detecting Contradictions in Online Review Contents based on Numerical Mismatch", International Conference on Computer and Computational Mathematics (ICCSCM 2017), pp. 127-132.</p> <p>M. Izham Jaya, Fatimah Sidi, Lilly Suriani Affendey, Iskandar Ishak, Marzanah A. Jabar (2017), "A Framework of Missing Values Replacement using Trustworthy Data Values from Web Data Sources", International Conference on Computer and Computational Mathematics (ICCSCM 2017), pp. 162-168.</p> <p>Reza Adinehnia, Nur Izura Udzir, Lilly Suriani Affendey, Iskandar Ishak, Zurina Mohd Hanapi (2014), "Effective mining on large databases for intrusion detection, International Symposium on Biometrics and Security Technologies (ISBAST), 2014, pp. 204-207.</p>

	Iskandar Ishak , Fatimah Sidi, Lilly S Affendey, Nor Fazldia M Sani, AS Hamzah, Paiman Bawon, "Mobile Plant Tagging System for Urban Forest Eco-Tourism Using QR Code", International Conference on Advanced Computer Science Applications and Technologies (ACSAT), 2013
<i>Other publications</i>	Iskandar Ishak, Revolusi Tablet dan Kesannya, pp. 46-47. Dewan Siswa, Julai 2012. (Magazine article in Malaysian Language)
<i>Intellectual properties</i>	1. Malay Interrogative Knowledge Corpus Database System (Copyright) 2. Malay Interrogative Knowledge Identifier (Copyright) 3. Mobile Forest Plant Tagging System (Copyright)

RESEARCH PROJECTS (Most recent)					
No	Project Title	Role	Year	Source of fund	Status
1	Machine Learning-Based Meat Adulteration Detection Using Texture and Color Features	Co-researcher	2024	UPM Putra Grant	Ongoing
2	Quantum-based Support Vector Machine Forecasting Method for High Frequency Trading	Lead Researcher	2023	FRGS (MOHE)	Ongoing
3	Spatial Modelling Using Machine Learning: A Case Study of Covid-19 In Sabah	Lead Researcher	2022	UPM Putra Grant	Ongoing
4	EU Asia Grid – Towards a Common International	Co-researcher	2021	EU Asia Grid	Completed
5	A Digital Rights Management Framework to Enhance Data Transfer and Cryptography Operations for Electronic Publication Management in Cloud Environment	Lead Researcher	2020	UPM Putra Grant	Ongoing
6	Infrastructure Requirement Model of University Open Research Data Repository	Lead Researcher	2018	UPM Putra Grant	Completed
7	Web Content Quality Model for Massive Open Online Course (MOOC)	Co-researcher	2018	UPM Putra Grant	Completed
8	Visual Analytics for Land Use Land Cover Change Management	Co-researcher	2017	UPM Putra Grant	Completed
9	Pelan Induk Johor Sebagai Pusat Tamadun Melayu Antarabangsa	Co-researcher	2017	Yayasan Warisan Johor	Completed
10	National Integrated Information Security Threat Factor Profiling Model	Co-researcher	2016	MOSTI	Completed
11	Manipulative Text Detection Model Using Classification for Data Veracity in Digital News Portal	Lead Researcher	2016	UPM Putra Grant	Completed
12	A new countermeasure method to minimize consistency anomalies in heterogeneous sensor databases based on relaxed-ACID and BASE properties	Lead Researcher	2015	FRGS	Completed

13	Feedback based Data Search in Mobile Peer-to-peer Networks	Lead Researcher	2012	RUGS	Completed
14	Framework for the Development and Validation of Scoring Rubrics for Database Design and SQL Programming	Co-researcher	2012	GIPP	Completed
15	Prototype Development of Concept-based Video Retrieval System	Co-researcher	2012	FRGS	Completed

SHORT BIO



ASSOC. PROF. Ts DR. ISKANDAR ISHAK
FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY
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Dr. Iskandar Ishak is an Associate Professor in the Department of Computer Science at the Faculty of Computer Science and Information Technology (CSIT). He earned his PhD in Computer Science from Universiti Teknologi Malaysia (UTM). Additionally, he holds a Master of Technology in Information Technology from the Royal Melbourne Institute of Technology University (RMIT) and a Bachelor of Information Technology (Honors) from Universiti Tenaga Nasional (UNITEN). As of February 15, 2024, he has been appointed Deputy Dean of Research, Innovation, and Community Relations at the Faculty of Computer Science and Information Technology, Universiti Putra Malaysia (UPM), for a three-year term.

His current research interests include Database Systems, Big Data Analytics, and the application of Machine Learning in domains such as finance, healthcare, and agriculture. He has published 40 indexed journal articles, 40 conference articles, and holds 7 copyrights, primarily for computer software. He has participated in numerous research grant projects, both as principal and co-investigator, securing a total funding of RM2.1 million.

Dr. Iskandar Ishak has supervised numerous Bachelor's, Master's, and PhD students. He is currently the main supervisor for seven PhD students and one Master's student, and a co-supervisor for eleven PhD students and one Master's student. Under his supervision, one PhD and one Master's student have successfully completed their studies. His primary teaching interests include Big Data, databases, and data analytics. For undergraduate students, he teaches courses such as Computer Programming, Database Application Development, Database Systems, Introduction to Data Science and Big Data Analytics. For postgraduate students, he teaches courses on Big Data Technology and Data Analysis and Statistical Inference.

He has played a pivotal role in organizing numerous conferences, workshops, and training programs both locally and internationally. Additionally, he provides professional services as a journal and conference reviewer, serves on the editorial boards of various conferences, and engages in consultation work.

He also involved as committee, speaker and trainer in several workshops and forums organized by entities within UPM as well as outside UPM such as Ministry of Education (Malaysia), Science Academy of Malaysia and Malaysian Communication and Multimedia Commission (MCMC). Internationally he has been involved with Kyushu University of Japan, Kyushu Institute of Technology (Kyutech), Anbar University of Iraq, Huazhong University of Science and Technology (HUST) of China and Institut Pertanian Bogor Universiti (IPB) of Indonesia.

Dr. Iskandar Ishak is also affiliated with several professional bodies in the field of Computing Science and Information Technology, such as the Malaysian Board of Technologies and International Association of Engineers (IAENG). He is also actively involved in student development

activities, once served as the Coordinator for Credited Curricular Courses at the Curricular and Student Development Center, Universiti Putra Malaysia. Furthermore, he participates in student volunteer activities with Non-Governmental Organization, Institut Onn Jaafar (IOJ), aiding homeless individuals in Kuala Lumpur.