CURRICULUM VITAE
2024

ASSOC. PROF. Ts. DR. FATIMAH SIDI

UNIVERSITI PUTRA MALAYSIA

CURRICULUM VITAE

Assoc. Prof. Ts. Dr. Fatimah Sidi
Department of Computer Science
Faculty Computer Science and Information Technology
Univeriti Putra Malaysia

UPM Serdang ● 2024

Tel: +603 9769 1734
Hp: +6012 203 8131

mail: fatimah@upm.edu.my
Web: https://profile.upm.edu.my/fatimah

BIOGRAPHY

Fatimah Sidi, PhD is an Associate Professor in the discipline of Computer Science at Computer Science Department, Faculty of Computer Science and Information Technology (CSiT). She holds a PhD in Management Information System from the Universiti Putra Malaysia (UPM), Malaysia. The topic of her doctoral dissertation was Transformation of Extracted Knowledge in Malay Unstructured Documents into an Interrogative Structured Form. She also possesses B.Sc. (Computer Science) and M.Sc. (Computer Science) from the same university.

Her current research interests are Big Data Analytic, Data Quality, Knowledge and Information Management Systems, Data and Knowledge Engineering, Database and Data Warehouse. She is currently pursuing several research projects funded by the Institute and the Ministry of Higher Education.

She is an active researcher and has made influential contributions to both the theory and practice of Big Data Analytic, Data Quality, Knowledge and Information Management Systems, Data and Knowledge Engineering, Database and Data Warehouse. Her contribution is well recognized at the national and international level, in which she has successfully published 93 journal articles, 116 conference proceedings, 8 chapters in books, and 8 books. One of the articles entitled Intrusion Detection using Data Mining Techniques, which was published in 2010, has been cited 78 times. Another interesting survey article, entitled Data Quality: A Survey of Data Quality Dimensions, which was published in 2012, has been cited 122 times.

She has also led 22 very ambitious and successful projects amounted to RM1,643,221.00. She has also collaborated in several other research projects. Her contributions in research are widely acknowledged in the management information system, data quality, big data, database and data warehouse, and data and knowledge engineering communities. She has participated in several exhibitions both at the international and national levels. She has won several medals. To name a few she has won a bronze medal at the International Conference & Exposition on Invention of Institutions of Higher Learning (PENCIPTA) – 2013, a gold medal at the Malaysian Innovation Expo (MIExpo) – 2013.

Fatimah Sidi has supervised several Bachelor, Masters and PhD students. Supervisory responsibilities cover the internship programs from computer science students in Malaysia. Her primary teaching interest is database and computer programming where the lecture materials and video are available at http://learninghub.upm.edu.my (Putra Blended Learning System and Assistive Technology or PutraBlast UPM). Courses that she teaches are Computer Programming, Data Structures, Database Application Development, Database System, Database Administration and Information Systems.

She has been instrumental in organizing several national conferences, workshops and training programs. She has been involved in providing professional services of journal reviewer, conference reviewer, a representative on the editorial board of several conferences, and consultation work. She is also currently being employed as speaker, lecturer, trainer and facilitator for staff professional development and competency.

She has taught and conducted classes for workshops organized by the department and is able to teach subjects in the following areas of Management Information Systems, Strategic Information System Planning, Software Project Management, Knowledge Management, Productivity Tools, Systems Analysis and Design, and Database Management.

Fatimah Sidi has been appointed as the Director of Infocomm Development Centre (iDEC) for eight years (2014-2022) managing about 172 ICT staff running the center in ICT services and infrastructures. Her main responsibilities are developing the direction and stracegic planning of ICT, digitalization of ICT, Smart Campus Initiatives, User Support, In-house Application Development and Maintenance.

She also has twenty years (1988-2008) of experience as a System Analyst in the area of System Development and Enterprise Database Management System. Her experience includes a concentration on IBM and Oracle Database Management. She was previously appointed to head the University Putra Malaysia Database and Data Integration Unit at UPM Computer Centre.

She is an extremely dependable and diligent IT professional who manages multiple tasks and works well under pressure with vast experience in enterprise application development. She is able to apply consultative approach in resolving issues, extremely patient at providing clear and simple explanations and works closely with people to develop solutions to their system problems.

Her others strengths include hands on management style with expertise in client needs, efficiency, cutting-edge technology, training, and complying with policies and procedures. She is a highly motivated, team-oriented management professional with more than fifteen years of experience in managing system development projects. She possesses strong analytical skill, and able to quickly identify problems and implement solution.

Fatimah Sidi is associated with several professional bodies in the area of Computing Science and is also actively involved in student development/involvement skills. She was appointed as College Master taking care of student campus life and affairs at residential college.

Table of Contents

CV Narrative

The CV Summary table below presents Fatimah Sidi's achievements as an academic at a glance. Evidence of her wealth of experience as a specialist in her area can be seen not only in the years of experience both as a system analyst and as an academic, but also in her H-index (for both Scopus and Google) which are reflective of her contribution to her discipline. As a principal investigator and as a co-researcher, she has been awarded 55 research grants to the impressive amount of RM5,295,106.00 in total. These research grants have enabled her to produce 253 publications comprising of 98 journal articles, 124 conference proceedings, 8 books, 9 book chapters and 14 other forms of publication. She has 70 intellectual properties to her name, including 69 copyrights and one patent. Over the years as an academic, Fatimah has consistently supervised and graduated postgraduate and undergraduate students in her area, and has been regularly entrusted to examine PhD and Master's theses as Internal and External Examiner. Her solid reputation as a researcher is also reflected in the awards she has garnered from her research, and her collaborations not only with reputable universities (locally and internationally), but also with institutions and agencies outside of UPM.

SPECIALIZATION		
Big Data, Data Quality, Data Warehouse, Database, Data Science, Knowledge Management, Management Information System		
CITATION INDEX		
Scopus Author ID:	36139115600	
Orcid ID	https://orcid.org/0000-0001-9556-9045	
H-Index	Scopus - 13 (Citaion: 763)	
	Google - 20 (Citation: 1731)	
EMPLOYMENT		
SERVICE @UPM - 31 YEARS (1991-2022)		
Associate Professor	9 years	
Senior Lecturer	4 years	
System Analysis Computer Centre	18 years	
RESEARCH GRANTS (5,295,106.00)		
	No.	Total (RM)
Principal Investigator	23	1,655,221.00
Co-Reseacher	32	3,639,885.00
Total Research Grants Received	55	
Research Projects Completed	46	
- *Principal Investigator*	21	
- *Co-Reseacher*	31	
Ongoing Research Projects	3	

- *Principal Investigator*	3
- *Co-Reseacher*	4

PUBLICATION (253)	
Books	8
Chapters in Book	9
Journals	98
– ISI-Indexed Journal (JCR)	22
– Citation Indexed Journal (Scopus)	45
	13
– ERA	14
– Journal Indexed by Other Bodies	4
Conference Proceedings	124
Others	14

INTELLECTUAL PROPERTIES (70)	
Copyrights	69
Patent	1

NUMBER OF POSTGRADUATE AND UNDERGRADUATE STUDENTS SUPERVISED GRADUATED 2009 ONWARDS	
PhD	9
Masters (With Thesis)	7
Masters by Cousework	11
Bachelor Dissertation	31

NUMBER OF ON-GOING POSTGRADUATE AND UNDERGRADUATE STUDENTS SUPERVISED	
PhD	13
Masters (With Thesis)	1
Masters by Cousework	0
Bachelor Dissertation	2

NUMBER OF EXTERNAL & INTERNAL EXAMINER 2009 ONWARDS			
Program	*Internal*	*External*	*Chairman*
PhD	3	5	-
Masters (With Thesis)	3	7	3

INTERNATIONAL RECOGNITION
ACCUMULATIVE INTERNATIONAL FUNDING (RM 1,470,227.00)
1. Universitas Negeri Malang, Indonesia 2. Telkom University, Indonesia 3. International Grant EGI Foundation Netherlands 4. International Grant 5. Asi@Connect Trans-Eurasia Information Network (TEIN) 6. Economic Research Institute for Asean and East Asia 7. International Grant Asian Office of Aerospace R&D Japan

	INTERNATIONAL RECOGNITION
1.	**Foreign Specialist** on an Integrated Approach to Data Science and Big Data Management at Faculty of Engineering and Digital Technology, M. Kozybayev North Kazakhstan University, Kazakhstan, October, 20th to November, 19th, 2024.
2.	**Special Topic on Web Design and Web Development** for undergraduate students conducting lectures, seminars, workshops at Faculty of Engineering and Digital Technology, M. Kozybayev North Kazakhstan University, Kazakhstan, October, 20th to November, 19th, 2024.

3.	**Research Collaboration, Publication and Co-Supervision Faculty of Engineering and Digital Technology, M. Kozybayev North Kazakhstan University, Kazakhstan 2024 – 2025.**
	   1. Rustem M. Tashibaev, PhD student, the dissertation title "Personalize Adaptation Model of Education Content using Machine Learning Algorithm".
	   2. Semenyuk Vladislav, Master student, the dissertation title "Development of a Real-Time Uav Recognition Model Based on the Yolov10 Neural Network".

4.	**Foreign Specialist** on Data Science and Big Data Technology at Faculty of Information Technology L. N. Gumilyov Eurasian National University Kazakhstan, November, 10th, 2022 to December, 8th, 2023.
5.	**Special Topic on Web Design and Data Science** for postgraduate students conducting lectures, seminars, workshops, examinations at Faculty of Information Technology L. N. Gumilyov Eurasian National University Kazakhstan, November, 10th, to December, 8th, 2022.

6.	**Research Collaboration, Publication and Co-Supervision Department of Computer Science, Faculty of Information Technology L. N. Gumilyov Eurasian National University Kazakhstan, 2022 - 2023**
	   1. Appak Nurlankyzy, PhD student, the dissertation title "Technology for the creation and Application of Intelligent Learning Systems".
	   2. Aigerim Bazarbayeva, PhD student, the dissertation title "Development of a Didactic Environment based on COOL Technology for the Training of Future Computer Science Teachers".
	   3. Dinara Kukeyeva, PhD student, the dissertation title "Instrumental-Methodological Support for the Individual Growth of Students in Project Activities".
	   4. Zharkymbaeva Zhanar Serikkyzy, PhD student, the dissertation title "Scientific and Pedagogical Evaluation of Educational Literature as a Factor in Improving the Quality of Education".

7.	**Expert Opinion** on the educational program 7M01511 – Computer Science, Department of Computer Science, Faculty of Information Technology L. N. Gumilyov Eurasian National University Kazakhstan, 2022.

8.	**Research Collaboration with Professor Farid Meziane Head of the Data Science Research Centre, University of Derby 2022 - 2023**
	   1. Research in Data Science for IR4.0, focussing on Multiple Domain Applications.
	   2. Technical Setting for Big Data Digitization Ecosystem.
	   3. Student and Staff mobility

9.	**Council Member** of Cisco System, Inc. USA for Cisco Malaysia Academic Council, 2020.

10.	**Advisory Member of** Oracle Corporation, USA for the Oracle Academy University on Oracle's Autonomous Database, Oracle Corporation Malaysia, 2020.
11.	**Technical Expert Professional Member** of Certified Ethereum and Solidity Practitioner (ETH/SOL), 2019.
12.	**Technical Expert Profesional Member** of IBM Information Management DB2 10 Technical Professional v3, 2013.
13.	**Technical Expert Professional Member** of Certiport Certified Trainer, Certiport's Internet and Computing Core Certification (IC3®), Microsoft® Office Specialist (MOS), American Fork, Utah, since 2011.
14.	**Technical Expert Professional Member** of Certiport Certified Trainer, Digital Etiquette Certification, 1Citizen Program, by Certiport Inc. USA since March 2011.
15.	**Technical Expert Professional Member** of IC Citizen Certified Trainer 1Citizen Program, by Certiport Inc. USA since March 2011.
16.	**Technical Expert Professional Member** of IBM Certified Academic Associate DB2 9 Database and Application Fundamentals, 2011.
17.	**Member** of International Association of Engineers (IAENG), Membership number: 248768.
18.	**Senior Member** of IEEE Computer Society (Membership No: 90926717).
19.	**Visiting Professor Global Learning Week,** 2020 – Telekom University, Bandung Indonesia.
20.	**Research Collaboration and Publication** 4. Malang Universiti Indonesia, Letter of Agreement as a research member on research project entitled "Does Lesson Study Work? : A Systematic Review on the Effects of Lesson Study On Teachers And Students", with Dr. Nur Anita Yunikawati, Kementerian Riset, Teknologi, dan Pendidikan Tinggi, Universitas Negeri Malang (UM), Fakultas Ekonomi, Jurusan Ekonomi Pembangunan. Indonesia, dated 18th January 2019. 5. Research discussion with the team at iPUTRA UPM on the 12th September 2019. 6. Joint published article entitled "Financial Literacy for Rural Resident: A Qualitative Study" at *the 1st International Conference on Science, Health, Economics, Education and Technology (ICoSHEET),* 17-18th December 2019, Semarang, Indonesia.
21.	**Editorial Board Member** 1. International Journal of Advanced Technology and Engineering Exploration (IJATEE). 2. Journal of Information Systems and Technology Management (JISTM).
22.	**Reviewer International Journal** 1. Journal of King Saud University - Computer and Information Sciences. 2. International Journal of Electrical Power and Energy Systems, School of Engineering. 3. Information Sciences, Elsevier Inc. 4. Computer Journal, Oxford University Press. 5. International Journal of Advanced Technology and Engineering Exploration (IJATEE). 6. Journal of Information Systems and Technology Management (JISTM). 7. Pertanika Journal of Science and Technology (JST). 8. Recent Advances in Computer Science and Communications. 9. Journal of Engineering Science and Technology.

23.	**Keynote/ Plenary/ Invited Speaker**
	1. **University of Tabuk, Kingdom of Saudi Arabia,** 2018. Invited Speaker at *the Faculty of Computing and Information Technology 1st Scientific Forum 2018*, paper entitled "A Comparative Analysis Study on Data Warehouse Conceptual Design".
	2. **Ministry of Education, Sri Lanka,** 2018. Invited Speaker at *Programme on Online Examination System for Sri Lanka*, paper entitled "Online Examination and Assessment System Setting".
	3. **Plenary Speaker,** 2017 at the International Conference on Big Data Applications in Agriculture (ICBAA2017), paper entitled "Data Visualization for Agricultural Data: Benefits and Challenges", Institute of Plantation Studies, Universiti Putra Malaysia, 5-6 Dec 2017.
	4. **University of Salford, Manchester, United Kingdom,** 2015. Invited Speaker at *the International Symposium on Big Data and Data Analytics 2015 (SBDDA2015),* paper entitled "Implementation of General Domain Ontology in Software Development Process in Big Data Platform".
	5. **Kyutech Fukuoka, Japan,** 2014. Keynotes Address and Organizing Committee at *the International Symposium on Applied Engineering and Sciences (SAES2014)*, paper entitled "Big Data Challenges in Malaysian Oil Palm Industry".
	6. **Invited Speaker,** 2013 at the Asia Pacific Internet Research Alliance (APIRA) 10th International Conference, 24-25th September 2013.
24.	**International Committee Members**
	1. Steering Committee for the Wood and Biofiber International Conference 2017 (WOBIC2017), Bandar Baru Bangi, Selangor, Malaysia, 21-23 November 2017.
	2. Organizing Committee for the International Symposium on Applied Engineering and Sciences (SAES 2017), Serdang, Malaysia, 14-15 November 2017.
	3. Organizing Committee for the Association of Southeast Asian Institutions of Higher Learning (ASAIHL) Conference 2016, Putrajaya, Malaysia, 4-6 Dec 2016.
	4. Head of Technical Committee for the Association of Southeast Asian Institutions of Higher Learning (ASAIHL) Conference 2016, Putrajaya, Malaysia, 1 Nov 2015–31 Dec 2016.
	5. Co-Chair for *the First International Symposium 'Big Data and Data Analytics 2015 (SBDDA 2015)*, University of Salford, Manchester, United Kingdom, 17-18 Dec 2015.
	6. Organizing Committee and Session Chair for *the 3rd International Symposium on Applied Engineering and Sciences (SAES2015)*, UPM-Kyutech, UPM Serdang, 23-24 November 2015.
	7. Organizing Committee for *the International Symposium on Applied Engineering and Sciences (SAES2014)*, Kyutech, Fukuoka, Japan, 20-21 December 2014.
	8. Local Chair for *the 16th International Business Information Management Association (IBIMA) Conference*, 2011.
25.	**Activity and On Line Discussion Internationally**
	1. **Research Discussion and Program**.
	- 22nd November 2019, on line interactive program and workshop on "*How to effectively engage with the academic literature and produce useful reports*" with Associate Professor

	Ben Daniel Higher Education Development Centre, University of Otago, New Zealand UPM Post Graduate and Undergraduates students at Faculty of Computer Science and Information Technology UPM. - 24th September 2019, initial meeting with Professor Mohamed Fayad at San Jose State University, USA. Mohammad Fayyad is a Computer Engineering professor specializing in Software Engineering. The topics discussed are related to producing writing as well as obtaining bilateral research grants and how to enhance holistic system development. - 22nd–23rd December 2015, research meeting in the area of gerontology with Professor Ahmad Lotfi, Computational Intelligence and Application (CIA) Research Group, Nottingham Trent University, Nottingham, UK. - 18th December 2015, research meeting and SAS Miner workshop for Big Data platform with Dr Mo Saraee Programme Leader for MSc in Data Science, School of Computing, Science and Engineering, University of Salford-Manchester, Manchester, UK. - 21 December 2014, research meeting with Professor Otabe, School of Computer Science and Systems Engineering, Kyutech, Japan on Big Data projects, student exchange and mobility programs. 2. **Industrial Visits and Program**. - 16th September 2019, attended the Oracle Open World program to explore the future of database technology and Oracle Cloud Infrastructure and Autonomous Database as its main focus. - 17th September 2019, technology and experience sharing session by CISCO at the CISCO headquarters in San Jose, United States. The session includes CISCO's research and collaboration program with Stanford University as well as several IoT initiatives implemented by CISCO through CISCO Smart City Initiatives. Methods of strengthening the data center infrastructure have also been presented. - 20th June 2019, scientific visit at Cloudera Singapore to learn about the use and implementation of cloud data on big data platformon with Geoff Soon, Regional Sales Director for ASEAN.
26.	**Student Exchange** 1st October 2016, PhD Student Mohd Izham Mohd Jaya (GS40595) attachment with Director Informatics Research Centre, School of Computing, Science and Engineering, University of Salford, Manchester.
27.	**Involvement in International Bodies** APAN48 Meeting (The 48th Asia Pacific Advanced Network Meetings)
28.	**Awards** 1. Applied Informatics International Conference 2020 (AiIC2020), Online Conference, 12-13 August 2020. - **Best Paper** Award entitled "*A Fakeheader: A Tool to Detect Deceptive Online News Based on Misleading News Headlines and Contents*". - **Best Paper** Award entitled "*A Proposed Integration Architecture for University Research Data Repository to*

		Support University and University Hospital on Medical Digital Image Management and Analytics Using Hadoop".
		2. International University Carnival on E-Learning (IUCEL2019), Universiti Malaysia Sarawak, 20-22 August 2019. - **Bronze Award** for project entitled, "*Education Analytics in UPM Smart Campus".* 3. International Conference & Exposition on Invention of Institutions of Higher Learning (PECIPTA), Kuala Lumpur Convention Centre, Malaysia, 7–9 November 2013. - **Bronze** medal for project entitled, "*Malay Interrogative Knowledge Identifier".* - **Bronze** medal for project entitled, "*Mobile Forest Plant Tagging System".* 4. International Conference on Computing, Mathematics and Statistics (ICMS 2013), Penang, Malaysia, 28–29 November 2013. - **Best Paper** Award entitled "*Is the Star Schema Really Better than Relational Schema? – Further Experimentation on Understandability of the Two Schemas".*

NATIONAL VISIBILITY
ACCUMULATIVE NATIONAL FUNDING (RM2,187,565.00)

1. Time dotCom Sdn Bhd
2. Academic Science Malaysia
3. Department of Higher Education, Ministry of Higher Education Malaysia
4. Cybersecurity Malaysia
5. CyberSecurity Malaysia and UPM Consultancy & Services
6. Fundamental Research Grant Scheme (FRGS)
7. Prototype Development Research Grant (PRGS)

RECOGNITION AND INVOLVEMENT

1. Member, 2020 - Malaysian Open Science Platform under Ministry of Energy, Science, Technology, Environment & Climate Change (MESTECC) through the Academy of Sciences Malaysia (ASM)
2. Council Member, 2014 – Majlis Pengarah-Pengarah ICT IPTA (MAPITA)
3. Consultation Projects and Reports
   - Cyber Security Malaysia
   - IIUM International Islamic University Malaysia
   - World Bank
   - Economic Planning Unit (EPU)
   - Ministry of Youth and Sports Malaysia
   - eNCoral Digital Solutions Sdn Bhd
   - Araken Sdn Bhd
   - National Heart Institute
   - Malaysian University Sports Council
   - Ministry of Agriculture
   - Sarawak Foundation Malaysia
   - Johore Education Foundation Malaysia
4. Committee Members
   - Chair for University ICT Administration Conference 2019 (Persidangan Pentadbiran ICT 2019), Putrajaya, Malaysia, 31 July – 2 Aug 2019. http://ppict2019.upm.edu.my
   - Co-Chair for Special Interest Group University Financial Technology Conference, Putrajaya, Malaysia, 31 July – 2 Aug 2019.
   - Papers and Technical Support Committee for the International Symposium on ICT Management and Administration (ISICTMA2019), Putrajaya, Malaysia, 31 July – 2 Aug 2019.
   - Committee Member for the ICT Steering Committee (Jawatankuasa Pemandu ICT (JPICT)), Ministry of Education Malaysia, Jan 2019 – Dec 2020.
   - Committee Member for the Technical ICT Committee (Jawatankuasa Teknikal ICT (JTI)), Ministry of Education Malaysia, Jan 2019 – Dec 2020.
   - Co-Chair and Committee Member for the 2009 National

Seminar in Technology and Innovation for Teaching and Learning 2009/ Seminar Kebangsaan Teknologi dan Inovasi Pengajaran-Pembelajaran 2009 (SKTIP09), Putrajaya, Malaysia, 28-29 April 2009.
- Committee Member for the Teaching and Learning Conference at Higher Education Conference (CTLHE07)/ Persidang Pengajaran dan Pembelajaran Di Peringkat Pengajian Tinggi, Selangor, Malaysia, 12-14 December 2007.
- Chair and Events Committee for the Malaysian National Conference on Databases (MaNCoD) 2014, Selangor, Malaysia, 17 September 2014.
- Chair for the Seminar on Value Management Committee, Administrators' Association Universiti Putra Malaysia (PPUPM), IOI Resort Palm Garden Hotel, Putrajaya, 28–29 May 2012.

5. Keynote and Invited Speaker
- Key Address at the University ICT Administration Conference 2019 (Persidangan Pentadbiran ICT 2019), paper entitled "Empowering Smart Campus".
- Keynotes Address at the 2014 Malaysia ICT Service Improvement with Local Authority (PBT) Seminar, paper entitled "Big Data: Challenges and Strategies for Implementation with PBT".

6. Editorial Board Member
- Chief Editor, Prosiding Persidangan Pentadbiran ICT 2019 (PPICT2019).
- Chief Editor, Proceedings of the International Symposium on ICT Management and Administration (ISICTMA2019).
- Editorial Board Member, Proceedings of the 3rd International Symposium on Applied Engineering and Sciences 2015 (SAES2015).
- Editorial Board Member, Proceedings of the Malaysian National Conference on Databases (MaNCoD) 2014.
- Editorial Board Member, Proceedings Monograph of the 2009 National Seminar in Technology and Innovation for Teaching and Learning (SKTIP09).
- Editorial Board Member, Monograph Series on Teaching and Learning at Public Institutions of Higher Learning (IPTA) 1 – 5.
- Editorial Board Member, Monograph of the 2007 Teaching and Learning Conference at Higher Education Conference (CTLHE07).
- Editorial Board Member, Proceedings Monograph of the 2005 International Conference on Knowledge Management.

7. Reviewer
- Journal of Information System and Technology Management (JISTM), Global Academic Excellence.
- International Journal of Electrical Power and Energy Systems, School of Engineering Taylor's University.
- Electronic Journal of Computer Science and Information Technology (eJCSIT), Universiti Tenaga Nasional (UNITEN),

Malaysia.
- Journal of Information and Communication Technology (JICT), Universiti Utara Malaysia, Malaysia.
- Malaysia Greater Research Network System (Mygrant), Ministry of Education (MoE), Malaysia.
- Taylors Research Grant Scheme (TRGS) Proposal, Centre for Research and Development, Taylor's University, Malaysia.
- Publisher Universiti Tun Hussien Onn (UTHM), for book entitled "Membina Laman Web Menggunakan CMS Langkah Demi Langkah (Step by Step: Developing Website Using CSM)"

AWARDS
1. Malaysian Innovation Expo (MIExpo), Banquet Hall, UPM, Malaysia, Malaysia, 2013 (1 Gold, 3 Silvers Medals).   2. Exhibition in Design, Research, and Innovation (PRPI), Great Hall, UPM, Malaysia, 2014 (1 Gold, 4 Silvers, 2 Bronze Medals).   3. Intellectual Property Incentive for Copyright, 2011, UPM, (13 Products)

PROFESSIONAL MEMBERSHIPS
1. Malaysian Board of Technologist, Information and Computing Technology (IT), Graduate Technologist.   2. Information Retrieval and Knowledge Management Society/ PECAMP - Persatuan Capaian Maklumat dan Pengurusan Pengetahuan. (Membership Number: M0150)

PROFESSIONAL SERVICES
1. 1Citizen Professional Certified Trainer with the Malaysian of Higher Education and Prestariang Sdn Bhd, Putrajaya, Malaysia, 2010.

MEMORANDUM OF AGREEMENT (MoA) & LETTER OF AGREEMENT (LoA)
1. MoA – Supply of Equipment Agreement with Academic of Science Malaysia, 1 August 2022.   2. MoA - National Integration Information Security Threat Factor Profiling Model for ICAAS with CyberSecurity Malaysia (Company No: 726630-U), RM142, 500.00, 1 Mac 2016 – 28 February 2018.   3. MoA - Development of National Integration Information Security Threat Factor Profiling Model for ICAAS with CyberSecurity Malaysia (Company No: 726630-U) and UPM Consultancy & Services (Company No: 788620-M), RM300,000.00, 24 February 2016 – 28 February 2018.

Department:	Computer Science
Faculty:	Computer Science and Information Technology
Field of Specialization:	Management Information System, Database and Data Warehouse, Data and Knowledge Engineering,
Research Related to Field of Specialisation:	Big Data Analytic, Data Management, Data Integrity, Data Quality, Ontology/ Schema/ Data Integration, Ontology/Schema/Data Mapping, Knowledge and Information Extraction.
Gender:	Female
Citizenship:	Malaysian
Languages:	Malay and English (excellent in speaking and writing for both languages)
Scopus Author ID:	36139115600 (https://www.scopus.com/authid/detail.uri?authorId=36139115600)
ORCID:	https://orcid.org/0000-0001-9556-9045
Web of Science ResearcherID:	GSN-0061-2022
Google Scholar URL	https://scholar.google.com/citations?user=8g4ED44AAAAJ&hl=en
DBLP URL	https://dblp.org/pid/83/9112.html
ORCID URL	https://orcid.org/0000-0001-9556-9045
Linkedin URL	https://www.linkedin.com/in/fatimah-sidi-b39670140/

ACADEMIC QUALIFICATIONS

Institution:	Universiti Putra Malaysia, Malaysia
Year:	2008
Degree:	Ph.D., *Management Information System*
Dissertation:	Transformation of Extracted Knowledge in Malay Unstructured Documents into an Interrogative Structured Form

Institution:	Universiti Putra Malaysia, Malaysia
Year:	2002
Degree:	Master of Computer Science

Institution:	Institut Teknologi Mara, Malaysia (Mara Institute of Technology Malaysia)
Year:	1997
Degree:	Diploma in Business Studies (Distance Learning)

Institution:	Universiti Putra Malaysia, Malaysia
Year:	1988
Degree:	Bachelor of Computer Science

SERVICES AT UNIVERSITI PUTRA MALAYSIA (UPM)

Academic Appointment
- 1 June 2013 – present: *Associate Professor*
- 3 Nov 2008 – 1 Jun 2013): *Senior Lecturer*

Administrative Appointment
- 11 Jun 1991 – 31 Nov 2008: *System Analyst*
- 20 Dec 1988 – 10 Jun 1991 *Contract Staff*

ADMINISTRATIVE RESPONSIBILITIES

No.	Position	Department/Faculty/Other Institution	Year
1.	Director	InfoComm Development Centre (iDEC), UPM	2014-2022 (8 yrs)
2.	Group Leader of Database Technologies and Applications Research Group (DbTA)	Faculty of Computer Science and Information Technology, UPM	2013-2016 (3 yrs)
3.	Head of Software Development Unit	Faculty of Computer Science and Information Technology, UPM	2011-2012 (1 yr)
4.	College Master Residential	Fifteenth College Residence, UPM	2010-2012 (2 yrs)
5.	Head of Data Integration and Database Management Unit	Information and Communication Development Centre, UPM	2006-2008 (2 yrs)
6.	Head of University Main Application Unit	Information and Communication Development Centre, UPM	1999-2005 (6 yrs)
7.	Head of Database Unit	Information and Communication Development Centre, UPM	1991-1998 (7 yrs)

UNDERGRADUATE & GRADUATE LEVEL COURSES

Course Description:

1. SSK5210 Empirical Methods for Computer Science
2. SSK5090 Research Methods in Computer Science
3. CSC3400 Database Principle
4. CSC4400 Database Advance Systems
5. SSK4401 Database Systems
6. SSK4403 Database Administration
7. SSK3408 Database Application Development
8. SAK3117 Data Structure
9. SAK3100 Computer Programming I
10. SAK3408 Database Application Development
11. MGM4197 Management Information System
12. MGM3191 Information Technology in Business

No.	Code of Courses	Credit Hour	Group No. and Number of Students	Teaching Assessment / 5.00	Semester/ Academic Year
1.	SSK5210 Empirical Methods for Computer Scienc	3(3+0)	G1 - 31	4.85	2 2023/2024
2.	SSK4401 Database Systems	3(3+0)	G1 - 2	5.00	2 2023/2024
3.	CSC3400 Database Principle	3(3+0)	G1 - 18	4.94	1 2023/2024
4.	CSC4400 Database Advance Systems	3(3+0)	G1 - 30	4.62	1 2023/2024
5.	SSK4403 Database Administration	3(3+0)	G1 - 1	5.00	3 2022/2023
6.	SSK5210 Empirical Methods for Computer Scienc	3(3+0)	G1 - 33	4.8	2 2022/2023
7.	SSK4403 Database Administration	3(3+0)	G1 - 37	4.49	2 2022/2023
8.	SSK4401 Database Systems	3(3+0)	G1 - 15	4.71	2 2022/2023
9.	CSC3400 Database Principle	3(3+0)	G1 - 11	4.8	1 2022/2023
10.	SSK4401 Database Systems	3(3+0)	G1 - 30	4.72	1 2022/2023
11.	SSK5210 Empirical Methods for Computer Scienc	3(3+0)	G1 - 30	4.78	2 2021/2022
12.	SSK4403 Database Administration	3(3+0)	G1 - 22	4.85	2 2021/2022
13.	SSK4401 Database Systems	3(3+0)	G1 - 41	4.91	1 2021/2022
14.	SSK5210 Empirical Methods for Computer Scienc	3(3+0)	G1 - 26	4.64	2 2020/2021
15.	SSK4403 Database Administration	3(3+0)	G1 - 29	4.47	2 2020/2021
16.	SSK4401 Database Systems	3(3+0)	G1 - 38	4.84	1 2020/2021
17.	SSK5210 Empirical Methods for Computer Scienc	3(3+0)	G1 - 26	4.64	2 2020/2021
18.	SSK4403 Database Administration	3(3+0)	G1 - 29	4.47	2 2020/2021
19.	SSK4401 Database Systems	3(3+0)	G1 - 27	4.84	1 2020/2021
20.	SSK4403 Database Administration	3(3+0)	G1 - 30	4.52	2 2019/2020

No.	Code of Courses	Credit Hour	Group No. and Number of Students	Teaching Assessment / 5.00	Semester/ Academic Year
21.	SSK4401 Database Systems	3(3+0)	G1 - 26	4.78	1 2019/2020
22.	SSK4403 Database Administration	3(3+0)	G1 - 29	4.72	2 2018/2019
23.	SSK4401 Database Systems	3(3+0)	G1 - 33	4.64	1 2018/2019
24.	SSK4403 Database Administration	3(3+0)	G1 - 10	4.70	2 2017/2018
25.	SSK4401 Database Systems	3(3+0)	G1 - 26	4.71	1 2017/2018
26.	SSK4403 Database Administration	3(3+0)	G1 - 29	4.86	2 2016/2017
27.	SSK4401 Database Systems	3(3+0)	G1 - 40	4.69	1 2016/2017
28.	SSK4403 Database Administration	3(3+0)	G1 - 30	4.65	2 2015/2016
29.	SSK4401 Database Systems	3(3+0)	G1 - 38	4.50	1 2015/2016
30.	SSK4403 Database Administration	3(3+0)	G1 - 27	4.79	2 2014/2015
31.	SSK3408 Database Application Development	3(3+0)	G2 - 18	4.63	2 2014/2015
32.	SSK5090 Research Methods in Computer Science	3(3+0)	G1 - 32	4.53	1 2014/2015
33.	SSK4403 Database Administration	3(3+0)	G1 - 38	4.53	2 2013/2014
34.	SSK5090 Research Methods in Computer Science	3(3+0)	G1 - 20	4.18	2 2013/2014
35.	SSK4401 Database Systems	3(3+0)	G1 - 25	4.48	1 2013/2014
36.		3(3+0)	G2 - 25	4.47	1 2013/2014
37.	MGM3191 Information Technology in Business	4(3+1)	G2 - 15	-	1 2013/2014
38.	SSK4403 Database Administration	3(3+0)	40	4.45	2 2012/2013
39.	SSK4401 Database Systems	3(3+0)	G2 - 26	4.50	1 2012/2013
40.	MGM4197 Management Information System	3(3+0)	G2 - 23	-	1 2012/2013
41.	SSK4403 Database Administration	3(3+0)	G1 – 36	4.38	2 2011/2012
42.	SSK3408 Database Application Development	3(2+1)	G1 – 15	4.49	1 2011/2012
43.	MGM3191 Information Technology in Business	4(3+1)	G2 - 21	-	1 2011/2012
44.	SAK3100 Computer Programming I	4(3+1)	G1 – 9	4.70	1 2010/2011
45.		4(3+1)	G2 – 13	4.75	1 2010/2011
46.	SSK3408 Database Application Development	4(3+1)	G2 – 16	4.60	2 2010/2011
47.	SAK3100 Computer Programming I	4(3+1)	G1 – 39	4.48	1 2009/2010
48.		4(3+1)	G2 – 26	4.66	1 2009/2010
49.		4(3+1)	G3 – 12	4.78	1 2009/2010
50.	SAK3408 Database Application Development	3(2+1)	G2 - 32	4.21	2 2009/2010
51.		3(2+1)	G3 – 30	4.60	2 2009/2010
52.		3(2+1)	G2 – 20	4.71	2 2008/2009
53.	SAK3117 Data Structure	3(3+0)	G2 – 37	4.51	1 2008/2009

GRADUATE LEVEL COURSES

Course Description:

1. SSK5200 Directed Reading In Computer Science - Master of Science
2. SAK6800 Directed Reading In Computer Science – PhD
3. SSK5988 Project (Computer Science)

No.	Code of Courses	Credit Hour	Number of Students	Teaching Assessment / 5.00	Semester/ Academic Year
1.	SAK5200 Directed Reading In Computer Science - Negar	3(3+0)	1	-	2 2014/2015
2.	SAK5200 Directed Reading In Computer Science	3(3+0)	5	-	1 2014/2015
3.	SSK5988 Project	3(3+0)	2	-	2 2013/2014
4.	SSK5988 Project	3(3+0)	2	-	2 2012/2013
5.	SAK5200 Directed Reading In Computer Science Shamsiah & Sharmila	3(3+0)	2	-	1 2012/2013
6.	SAK5200 Directed Reading In Computer Science Kartini	3(3+0)	1	-	2 2010/2011
7.	SAK6800 Directed Reading In Computer Science - PhD	3(3+0)	1	-	1 2009/2010
8.	SAK5200 Directed Reading In Computer Science	3(3+0)	1	-	2 2008/2009

SUPERVISION OF STUDENTS

Program Level	No.	Name of Students and Title of Thesis/Project	Main Supervisor/ Co-supervisor	Status (Completed/ On-going)	Year
PhD	1.	Alabadla Mustafa R. A (GS59711) *Intelligent Imputation Method for Mix Data-Type Missing Values to Improve Data Quality*		Graduated 2024	2020
	2.	Mohammed Abdo Mohammed Albaom (GS48955) Integrated Model for Tourists' Intention Using Web 3.0 Based On Technology Acceptance Model and Updated Information Systems Success Model		Graduated 2024	2017
	3.	Mahmoud Elmetwally Mahmoud Said (GS50510) *An Ontology-Based Knowledge Integration Framework for Creative Problem-Solving in Computational Problems*	**Main Supervisor**	Graduated 2024	2017
	4.	Hasan Ganny Hanif Francis (GS40830) *A New Readiness Model to Enhance the Assessment of Customer Business Value Using Big Data Analytics*		On-going	2014
	5.	Mohd Izham Mohd Jaya (GS40595) *Cold Deck Missing Value*		Graduated 2019	2014

Program Level	No.	Name of Students and Title of Thesis/Project	Main Supervisor/ Co-supervisor	Status (Completed/ On-going)	Year
		Imputation with a Trust-Based Selection Method of Multiple Web Donors			
	1.	Zarina binti Dzolkhifli (GS50475) *Skyline Processing over Data Stream*		On-going	2017
	2.	Umar Bukar Ali (GS53832) *Model of Social Media Crisis Communication for Predicting Public Resilience*		Graduated 2022	2018
	3.	Yunus Parvej Faniband (GS46285) *Mobile Synchronization Framework to Enhance Large Object Management in Mobile Cloud Storage Service*		Graduated 2022	2016
	4.	Ghoncheh Babanejad Dehaki (GS40775) *Efficiency of Region-Based Skyline Computation for a Group Of Users*		Graduated 2023	2014
	5.	Ghazaleh Babanejaddehak (GS37718) *Dominance Relationship-Based Skyline Query Framework Over Dynamic and Incomplete Database*		Graduated 2021	2013
	6.	Asghar Darvishy (GS33367) *A Hybrid Approach for Personalized News Recommendation with Ordered Clustering Algorithm, Rich User and News Metadata*	Co-Supervisor	Complete 2019 19-12-2019	2012
	7.	Payam Hassany Shariat Panahy (GS29130) *Model for Assessing Relationship Between Data Quality Dimensions and Improvement Process in Information Systems*		Graduated 2014 28/8/2014	2011
	8.	Nurul Husna binti Mohd Saad (GS28352) *Skyline Queries on Data with Uncertain Dimensions for Efficient Computation*		Graduated 2018 16/8/2018	2010
	9.	Ali Amer Alwan (GS24197) *Processing Skyline Queries in Centralised and Distributed Incomplete Database*		Graduated 2013 19/06/2013	2010
	10.	Teo Poh Kuang (GS23442) *Heterogeneity Access Control Policy Evaluation with Modality Conflict Analysis*		Graduated 2017 29-03-2017	2009
MSc	1.	Kartini Mohamed (GS28586) *An Improved User Authentication Model for Mobile Application Systems*	**Main Supervisor**	Graduated 2018 08/02/2018	2010
	2.	Mohammadreza Ektefa (GS23285) *A Threshold-Based Combination of String and*		Graduated 2011 17/06/2011	2008

Program Level	No.	Name of Students and Title of Thesis/Project	Main Supervisor/ Co-supervisor	Status (Completed/ On-going)	Year
		Semantic Similarity Measures for Record Linkage			
	1.	Norwini binti Zaidi (GS47510) *An Efficient Relational to Column Oriented Database Schema Transformation Technique*		Complete 2019 26/09/2019	2017
	2.	Tan Ming Ming (GS34209) *Moderating Effects of Big Five Personality Traits on Software Piracy Intention*		Graduated 2017 28-03-2017	2012
	3.	Niloofar Yousefi (GS32775) *Decision Support Prediction Model for Managing Feed Plan in Dairy Farm*	Co-Supervisor	Graduated 2015 08/10/2015	2011
	4.	Siti Rozana Supian (GS28179) *The Influence of Human Resources Practices on the Talent Retention of Management and Professional Staff of a Public University in Malaysia*		Graduated 2016 30-12-2015	2010
	5.	Mohammad Farahmand (GS21315) *Improving Accuracy and Relativity Based on Title, Keywords and Description of HTML Content*		Graduated 2012 23/04/2012	2008
Masters (Course work)	1.	Shameen Aina Abdul Rahim *Leveraging Data Lake ArchitecturefFor Predicting Academic Students Performance*		Completed	2024
	2.	Siti Maisara Murniyati Muin *Predicting Student Performance to Identify Students at Risk Based on Student Information System and Learning Management System Data*		Completed	2022
	3.	Noor Fazliani Shamsudin *Supporting Tool of College Preference Choice for Students' Satisfaction*		Completed	2014
	4.	Nurul Hafizah Hamid Abdullah *A Model for Developing Student Performance Prediction System*	**Main Supervisor**	Completed	2014
	5.	Aisha Awal *Ontology Repository for User Elicitation Requirement*		Completed	2013
	6.	Usman Abbas Usman *Usability study of Web sites in Academic Setting*		Completed	2013
	7.	Nurul Zaiha Zainal *Processing Knowledge Web-based Unstructured Document into Data Warehouse*		Completed	2013
	8.	Rizalina binti Mohd Radwan *A Quantifying of Data Quality for Department of College Community*		Completed	2013
	9.	Ahmad Hamidi Mohamed *Knowledge Inventory*		Completed	2012
	10.	Azmi Fadzlil Mansor		Completed	2012

Program Level	No.	Name of Students and Title of Thesis/Project	Main Supervisor/ Co-supervisor	Status (Completed/ On-going)	Year
		Integration of mobile application and web application			
	11.	Mazwin Abdul Wahab *Knowledge Management System Quality Attributes*		Completed	2012
	12.	Caroline Sumantri *Software Project Management*		Completed	2011
Bachelor	1.	Fadzhilatuaima binti Zakaria *(Understanding Regional Variations: Analysis of Mental Health Stigma through Data Visualisation)*	**Main Supervisor**	Completed	2024
	2.	Muhammad Afiq Ikmal bin Shahidan *(Housing Data Interactive Visualization System)*		Completed	2024
	3.	Kong Kok Keong *(Student Academik Performance Predictor and Dashboard on Subject Programmimg I Among Student UPM)*		Completed	2023
	4.	Nurul Najiah Binti Risdan *(Student Profiling on How Student Financial Level Affecting Their Performance)*		Completed	2023
	5.	Nur Adlina Nadia Binti Mahmud *(Guided Service Chatbot of Frequently Asked Questions on General Issues Among UPM's Students: PutraBot)*		Completed	2022
	6.	Ammar Rozman bin Mohd Azman *(Helpdesk of Academic Affairs in Faculty)*		Completed	2022
	7.	Kirtana Nair A/P Gopalan *(Virtual Identification Door Access Control System Based on Facial Recognition)*		Completed	2021
	8.	Prissha A/P Shamuga *(Door Access Control System Based on Face Recognition System)*		Completed	2021
	9.	Ashvini Priya Rajangeran *(Centralized Door Access Control Management System)*		Completed	2019
	10.	Puvanah Sandra Sekaran *(Authentication for Access Control Management Using QR-Code)*		Completed	2019
	11.	Anis Farhana Binti Zulkipli *(T-Summary Application)*		Completed	2015
	12.	Nur Najmina Binti Norsaidi *(Mobile Application of Sentiment Analysis Using Hadoop)*		Completed	2015
	13.	Hooi Yin Hang *(Weed Calculator)*		Completed	2015
	14.	Chin Wai Meng *(Design a Web Application to Improve the Data Management of Safety Uniform Supplying System)*		Completed	2014

Program Level	No.	Name of Students and Title of Thesis/Project	Main Supervisor/ Co-supervisor	Status (Completed/ On-going)	Year
	15.	Loo Jian Hao (*Design an Approach to Enhance the Monitoring of email Deliverability of Mass Email Sender*)		Completed	2014
	16.	Tou Pei Pei (*Web Application Design to Improve Food Ordering Management Process*)		Completed	2014
	17.	Ooi Seng Tatt (*Rice Pesticide Management System*)		Completed	2013
	18.	Siti Hajar Tajuddin (*eVacation System*)		Completed	2013
	19.	Athirah Binti Abdul Rahim (*Forest Management System: Fauna*)		Completed	2012
	20.	Bayati binti Eleyas (*MalayIK System*)		Completed	2012
	21.	Muhammad Ghazali Bin Shahid (*Food Coping System*)		Completed	2012
	22.	Noor Syahirah Binti Ambok Sekek (*Forest Management System: Flora*)		Completed	2012
	23.	Nursia Abiosong (*Post Ethical Decision Making*)		Completed	2012
	24.	Nurul Hasyimah binti Hussin (*Merit Appraisal System*)		Completed	2010
	25.	Sia Ying Xin (*Student Portal Hostel*)		Completed	2010
	26.	Teo Chong Ji (*Vechicle Service System*)		Completed	2010
	27.	Tng Li Li (*Online Malay Dictionary and Mobile Application System*)		Completed	2010
	28.	Beh Chin Thye (*Autosuggest Technique*)		Completed	2009
	29.	Goh Yen Lee (*e-Counseling System: Counseling Session & Reportage*)		Completed	2009
	30.	Maliena Hassan (*MOU Management System*)		Completed	2009
	31.	Mar Aida Farida Mahiddin (*e-Exchange Student System*)		Completed	2009
	32.	Rusli Yasmin (*Meeting Minutes System*)		Completed	2009
	33.	Seah Por Shen (*Converting Human Resource Data System*)		Completed	2009
	34.	Siew Hoe Seng (*Identifying Content of the Attach File for HRMS*)		Completed	2009
	35.	Yeoh Sze Ling (*e-Counselling System: Registration and Administration*)		Completed	2009

RESEARCH ACTIVITIES

No	Title	Role (Main/Co-researcher)	Sponsor/Grant and Amount (RM)	Period (year)	Status (Completed/On-going)
1.	Autonomous Imputation Application for Numerical and Categorical Data Types to Improve Data Quality	Main researcher	12,000.00 Geran Putra Inisiatif (GPI) (9777400-13301)	1.5	On-going 01 Dec 2023 – 30 Nov 2025
2.	Predictive Analytics in Tracking UPMNeT Peak Bandwidth Consumption	Main researcher	30,000.00 Private Grant TT dotCom Sdn Bhd (6300380-13301)	3	On-going 01 Dec 2022 – 31 Aug 2025
3.	Intergration of Putra Research Data Repository with Malaysia Open Science Platform (MOSP)	Main researcher	256,000.00 Private Grant Academic Science Malaysia (ASM)	2	Completed 01 Aug 2022 – 31 Aug 2024
4.	Intelligent Imputation Method for Missing Values to improve Data Quality in Healthcare Monitoring	Main researcher	82,900.00 FRGS (FRGS/1/2020/ICT06/UPM/02/1)	3	Completed 01 Nov 2020 – 30 Apr 2024
5.	EUAsia Grid Toward a Common International – New Initiative EOSC-Hub Disaster Mitigation Competency Center	Main researcher	110,655.00 International Grant EGI Foundation Netherlands	2	Completed 01 Feb 2020 – 30 Jun 2022
6.	Pembangunan Semula Sistem Penilaian Patriotisme Dan Perpaduan Nasional (iPPN)	Main researcher	93.000.00 Department of Higher Education, Ministry of Higher Education (Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi Malaysia)	1	Completed 01 Dis 2020 – 01 Dis 2021
7.	Development of Service Learning Malaysia - University for Society (SULAM) Portal	Main researcher	20.000.00 Department of Higher Education, Ministry of Higher Education (Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi Malaysia)	1	Completed 01 Oct 2020 – 01 Oct 2021
8.	Study of Effect on ICT Engagement for Online Study during Covid-19 Pandemic	Main researcher	1,030.00 International Grant Telkom University, Indonesia	1	Completed 14 Dec 2020 – 13 Dec 2021
9.	Analisis Community Based Tourism (CBT) Untuk Mendukung Sustainable Development Desa Wisata Osing Kabupaten Banyuwangi	Main researcher	21,445.00 Collaboration Universitas Negeri Malang, Indonesia	1	Completed 03 Mac 2020 – 31 Mac 2021
10.	Analisis Penerapan Ecotourism Dalam Sistem Pembangunan Berkelanjutan di	Main researcher	21,445.00 Collaboration Universitas Negeri Malang, Indonesia	1	Completed 03 Mac 2020 – 31 Dec 2020

No	Title	Role (Main/Co-researcher)	Sponsor/Grant and Amount (RM)	Period (year)	Status (Completed/On-going)
	Pantai Pulau Merah Kabupaten Banyuwangi				
11.	Keputusan Keuangan Rumah Tangga clan Literasi Keuangan pada Revolusi Industri 4.0 (Studi Kasus di Jawa Timur)	Main researcher	19,373.00 Collaboration Universitas Negeri Malang, Indonesia	1	Completed 03 Mac 2019 – 03 Mac 2020
12.	Apakah Lesson Study Bekerja?: Tinjauan Sistematis Tentang Efek Lesson Study Terhadap Guru dan Siswa	Main researcher	19,373.00 Collaboration Universitas Negeri Malang, Indonesia	1	Completed 03 Mac 2019 – 03 Mac 2020
13.	University of Open Research Data Repository (UORDRE) Sub-Projek 4 : Research Data Repository Using Web-based Relational Database Approach to improve Research data Management in Research University	Main researcher	50,000.00 (UPM/700-2/1/GP-IPB/2017/9558600) Geran Putra Inisiatif Putra Bekumpulan (GP-IPB)	2	Completed 01 Nov 2017 – 30 Apr 2020
14.	National Integrated Information Security Threat Factor Profiling Model	Main researcher	142,500.00 Private Grant CycerSecurity Malaysia (Company No: 726630-U) (6300832-13301) 6300832	2	Completed 03 Mac 2016 – 31 May 2018
15.	Development of National Integration Information Security Threat Factor Profiling Model for Integrated Cyber Security Analysis and Action System (ICAAS)	Main researcher	300,000.00 CyberSecurity Malaysia (Company No: 726630-U) and UPM Consultancy & Services (Company No: 788620-M)	2	Completed 28 Feb 2016 – 28 Feb 2018
16.	A New Multidimensional Model for Data Warehouse based on Changing Requirements and Data Sources for Enhance the Quality of Logical Schema	Main researcher	97,200.00 FRGS (FRGS/2/2014/ICT07/UPM/02/1) 5524657	3	Completed 01 Dec 2014 - 31 May 2018
17.	Automatic Hybrid Multidimensional Schema Design from User Requirement	Main researcher	15,000.00 (GP-IPS/2014/9433963) Geran Putra Inisiatif Siswazah (GP-IPS)	3	Completed 01 Sep 2014 - 01 Mac 2017
18.	Oil Palm Big Data Analytics Application Framework	Main researcher	200,000.00 (GP/2014/9437600) 9437600 Geran Putra Individu (GP-I)	1	Completed 01 Aug 2014 - 31 July 2015
19.	Data Warehousing Knowledge Discovery for Unstructured Document	Main researcher	33,300.00 (RUGS 05-02-12-2160RU) 9372900	2	Completed 01 Sep 2012 - 30 Apr 2015
20.	Data Quality	Main	15,000.00	2	Completed

No	Title	Role (Main/Co-researcher)	Sponsor/Grant and Amount (RM)	Period (year)	Status (Completed/On-going)
	Management Model for Institution of Higher Education (IHE) Data Warehouse	researcher	(RUGS 05-02-12-2159RU)		01 Sep 2012 - 01 Sep 2014
21.	Evaluating Data Transfer using Quick Response Code Compared to the Conventional Digital Data Transfer Methods	Main researcher	15,000.00 (RUGS 05-02-12-1824RU)	2	Completed 01 Sep 2012 - 30 Jun 2014
22.	Data Quality Management Model for Data Warehouse	Main researcher	70,000.00 (FRGS UPM/CSIT/700-2/2/03-12-10-999F)	2	Completed 01 Mac 2011 - 01 Mac 2013
23.	Knowledge Discovery from Data Warehouse for Heterogeneous Database	Main researcher	30,000.00 (RUGS 05-01-09-0622RU)	2	Completed 27 Aug 2009 - 26 Aug 2011
TOTAL (RM)			1,655,221.00		

No	Title	Role (Main/Co-researcher)	Sponsor/Grant and Amount (RM)	Period (year)	Status (Completed/On-going)
1.	Quantum-based Support Vector Machine Forecasting Method for Efficient High Frequency Trading	Co-researcher (Main researcher: (Assc. Prof. Ts. Dr. Iskandar Ishak)	123,000.00 FRGS	3	On-going 01 Oct 2023 – 30 Sept 2026
2.	Formulation Of Trust Score Metric for Resolving Numerical Data Conflicts From Multiple Web Sources	Co-researcher (Main researcher: (Ts. Dr. Mohd Izham Mohd Jaya)	64,500.00 (FRGS/1/2021/ICT07/UMP/02/2) Collaboration Universiti Malaysia Pahang	2	Completed 07 Sept 2021 – 06 Sept 2023
3.	Kajian Penilaian Sistem Tokoh Anugerah Siswa	Co-researcher (Main researcher: Prof. Dr. Arifin Abdu, Faculty of Forestry and Environment)	230,000.00 Department of Higher Education, Ministry of Higher Education (Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi Malaysia)	1	Completed 01 Jan 2021 – 31 Dec 2023
4.	Fragmentation and Object De-duplication Strategies for Avoiding Re-computation of Multiple Continuous Skyline Queries over Uncertain Data Stream	Co-researcher (Main researcher: Prof. Dr. Hamidah Ibrahim)	112,800.00 FRGS (FRGS/1/2020/ICT03/UPM/01/1)	3	Completed 01 Nov 2020 – 31 Oct 2023
5.	A Digital Rights Management Framework to Enhance Data Transfer and Cryptography Operations for Electronic Publication Management in Cloud Environment	Co-researcher (Main researcher: Ts. Dr. Iskandar Ishak)	50,000.00 GERAN PUTRA (GP-PUTRA)	3	Completed 01 Dec 2020 – 31 Dec 2023

No	Title	Role (Main/Co-researcher)	Sponsor/Grant and Amount (RM)	Period (year)	Status (Completed/On-going)
6.	Sustainable Aquatic Resource Management in Mangrove Ecosystems via Internet of Things Application (MEITA)	Co-researcher (Main researcher: Assc. Prof. Dr. Natrah Ikhsan, Faculty of Agriculture)	884,633.00 (€197,023@4.49) International Grant Asi@Connect Trans-Eurasia Information Network (TEIN)	1.5	Completed 14 Sept 2020 – 31 Dec 2021
7.	Community BaYed Economy (CBE): Sebagai Pendorong Ekonomi Lokal Pengrajin Batik Banyuwangi	Co-researcher (Main researcher: Assc. Prof. Dr. Marzanah A. Jabar)	20,665.00 Collaboration Universitas Negeri Malang, Indonesia	1	Completed 03 Mac 2020 – 31 Dec 2020
8.	Human Resource Development, Employment and International Migration of Nurses and Caregivers in Asia and the Pacific Region	Co-researcher (Main researcher: Prof. Dr. Soh Kim Lam, Faculty of Medicine and Health Sciences)	40,617.00 International Grant Economic Research Institute for Asean and East Asia (ERIA)	1	Completed 01 Oct 2020 – 30 Sept 2021
9.	Multiple Formalism Ontology for Reusability and Knowledge Conceptualization to Enhance Knowledge Integration Quality	Co-researcher (Main researcher: Assc. Prof. Dr. Marzanah A. Jabar)	103,200.00 FRGS (08-01-19-2162FR) 5540287	2	Completed 01 Sept 2019 – 31 Aug 2021
10.	Deep Recurrent Q-Network Approach for Multi Objective Markov Decision Process in Partially Observable Environment	Co-researcher (Main researcher: Assc. Prof. Dr. Nurfadhlina Mohd Sharef)	240,000.00 International Grant Asian Office of Aerospace R&D Japan	2	Completed 29 Sept 2018 – 28 Sept 2020
11.	Artificial Intelligence in Business Intelligence for Improving Food and Beverages Customer Service	Co-researcher (Main researcher: Assc. Prof. Dr. Marzanah A. Jabar)	135,500.00 Geran Putra Pembangunan Inovasi (GPPI)	2	Completed 15 Sept 2018 – 15 Nov 2020
12.	Visual Analytics for Land Use Land Cover Change Management	Co-researcher (Main researcher: Assc. Prof. Dr. Lilly Suriani Affendey)	50,000.00 Geran Putra (GP-Putra)	2	Completed 15 Nov 2017 – 15 Nov 2019
13.	University of Open Research Data Repository (UORDRE) Sub-Projek 1 : Infrastructure Requirement Model of UORDRE	Co-researcher (Main researcher: Ts. Dr. Iskandar Ishak)	454,600.00 (UPM/700-2/1/GP-IPB/2017/9558200) Geran Putra Inisiatif Putra Bekumpulan (GP-IPB)	2	Completed 01 Nov 2017 – 31 Oct 2019
14.	New Adaptive And Dynamic Hybrid Agile Model To Enhance Software Project Success Deliveries	Co-researcher (Main researcher: Assc. Prof. Dr. Marzanah A. Jabar)	63,200.00 FRGS (08-01-16-1854FR) 5524961	2	Completed 01 Aug 2016 – 01 Jan 2019
15.	Threshold-based Probabilistic Interval	Co-researcher (Main	61,200.00 FRGS	2	Completed 01 Aug 2016

No	Title	Role (Main/Co-researcher)	Sponsor/Grant and Amount (RM)	Period (year)	Status (Completed/ On-going)
	Skyline Queries for Efficient Skyline Computation on Big Data	researcher: Prof. Dr. Hamidah Ibrahim)	(FRGS/1/2016/ICT04/UPM/01/2) 5524960		– 01 Jan 2019
16.	Manipulative Text Detection Model Using Classification for Data Veracity in Digital News Portal	Co-researcher (Main researcher: Ts. Dr. Iskandar Ishak)	20,000.00 (GP-IPS/2016/9478900) 9478900 Geran Putra Inisiatif Siswazah (GP-IPS)	3	Completed 01 Apr 2016 – 01 Apr 2019
17.	A New Countermeasure Method to Minimise Consistency Anomalies in Heterogeneous Sensor Database Based on Relaxed-ACID and BASE Properties	Co-researcher (Main researcher: Ts. Dr. Iskandar Ishak)	66,000.00 FRGS (FRGS/1/2015/ICT04/UPM/02/7) 5524834	3	Completed 02 Nov 2015 – 01 May 2018
18.	A Hybrid Method to Increase Accuracy in Personalized News Recommendation Systems	Co-researcher (Main researcher: Prof. Dr. Hamidah Ibrahim)	12,000.00 (GP-IPS/2013/9397400) 9397400 Geran Putra Inisiatif Siswazah (GP-IPS)	2	Completed 01 Nov 2013 - 31 Oct 2015
19.	Efficient Computation of Skyline Queries in Uncertain and Incomplete Autonomous Web Databases	Co-researcher (Main researcher: Prof. Dr. Hamidah Ibrahim)	88,620.00 (GP-IBT/2013/9410000) 9410000 Geran Putra Initiatif Berprestasi Tinggi (GP-IBT)	2	Completed 01 Nov 2013 - 31 Oct 2015
20.	Ontology-based Knowledge Management Framework to Enhance Enterprise System (ES) Software Development Process	Co-researcher (Main researcher: Assc. Prof. Dr. Marzanah A. Jabar)	83,200.00 FRGS (08-01-13-1221FR) 5524302	2	Completed 01 May 2013 - 30 Apr 2015
21.	A New Strategy for Ontology Matching using Semantic Web and Wordnet	Co-researcher (Main researcher: Assc. Prof. Dr. Ali Mamat)	23,000.00 (RUGS 05-02012-2162RU)	2	Completed 01 Nov 2012 - 30 Apr 2014
22.	An exploratory study of factors affecting ERP implementation of large scale and small medium scale enterprises in Malaysia and its impact on strategic competitiveness	Co-researcher (Main researcher: Assc. Prof. Dr. Marzanah A. Jabar)	75,000.00 (RUGS 05-02-12-2164RU)	2	Completed 01 Nov 2012 - 22 Oct 2014
23.	Developing and pilot-testing an intervention decision aid for patients with prostate cancer who are making decisions about prostate cancer treatment	Co-researcher (Main researcher: Assc. Prof. Dr. Lee Ping Yein)	127,650.00 (RUGS 04-02-12-2093RU)	2	Completed 01 Nov 2012 - 30 Jun 2015
24.	Feedback Based Data Search in Mobile Peer-to-peer Networks	Co-researcher (Main researcher:	27,000.00 (RUGS 05-02-12-2150RU)	2	Completed 01 Nov 2012 -

No	Title	Role (Main/Co-researcher)	Sponsor/Grant and Amount (RM)	Period (year)	Status (Completed/On-going)
		Ts. Dr. Iskandar Ishak)			22 Oct 2014
25.	Developing a Knowledge-based Decision Support System for Dairy Farms Management	Co-researcher (Main researcher: Assc. Prof. Dr. Marzanah A. Jabar)	13,500.00 (RUGS 05-02-12-1823RU)	2	Completed 01 Sep 2012 - 23 Feb 2014
26.	Prototype Development of Concept-based Video Retrieval System	Co-researcher (Main researcher: Assc. Prof. Dr. Lilly Suriani Affendey	94,000.00 PRGS (PRGS//12/TK06/UPM/02/B)	2	Completed 01 Aug 2012 - 31 Jul 2014
27.	Smart Medical Clinical Databases System	Co-researcher (Main researcher: Assc. Prof. Dr. Nor Fazlida Mohd Sani)	165,000.00 PRGS (PRGS/1/2/SG05/UPM/02/3)	2	Completed 01 Aug 2012 - 31 Jul 2014
28.	Utilizing Application System of Malaysian Coping Strategy Instrument to Measure Food Insecurity	Co-researcher (Main researcher: Assc. Prof. Dr. Norhasmah Sulaiman)	50,000.00 FRGS (FRGS/1/11SS/UPM/02/10)	2	Completed 01 Aug 2011 - 31 Jul 2013
29.	A Static Debugging Model with Plan Recognition Technique for Object-oriented Programming Codes	Co-researcher (Main researcher: Assc. Prof. Dr. Nor Fazlida Mohd Sani)	95,000.00 FRGS (FRGS/1/11/SG/UPM/02/7)	2	Completed 01 Aug 2011 - 31 Jul 2013
30.	A Conceptual Model of Knowledge Sharing in Information System 3466885Development (ISD)	Co-researcher (Main researcher: Assc. Prof. Dr. Marzanah A. Jabar)	6,500.00 (RUGS 05-02-11-1410RU)	1	Completed 01 Aug 2011 - 01 Jul 2012
31.	Skyline Preference Evaluation Models for Uncertain and Incomplete Multidimensional Database	Co-researcher (Main researcher: Prof. Dr. Hamidah Ibrahim)	13,500.00 (RUGS 05-01-11-1253RU)	2	Completed 05 Apr 2011 - 14 Mac 2013
32.	Software Requirement Analysis Template Automation Aided System	Co-researcher (Main researcher: Assc. Prof. Dr. Marzanah A. Jabar)	46,000.00 (RUGS 05-01-11-1258RU/F1)	2	Completed 15 Apr 2011 - 15 Apr 2013
	TOTAL (RM)		3,639,885.00		

INTELLECTUAL PROPERTY

I. PATENT

No.	Title of Patent	Category	Role (Main/Co-Inventor)	Year
1.	System and Method for Determining and Structuring of Software Requirements using Domain Ontology	Patent Application No: P12014701481 Registration No. Of Patent: MY-170008-A Patent Filling Date: 05-06-2014 Granted Date: 20-06-2019	Co-Inventor	2019

II. COPYRIGHT

No.	Title of Copyright	Category	Role (Main/Co-Inventor)	Year
1.	PutraPerformance System User Manual - Evaluator Module for PPP/PPK [LY2018004536]	Literacy Work	Co-Inventor	2018
2.	PutraPerformance System User Manual - Evaluatee Module [LY2018004535]	Literacy Work	Co-Inventor	2018
3.	Putra Performance System User Manual - Office Secretariat Module [LY2018004532]	Literacy Work	Co-Inventor	2018
4.	PutraPerformance System Source & Object Code [LY2018005060]	Source Code and Software	Co-Inventor	2018
5.	Management & Professional Staff Performance Appraisal User Manual (Non Academic), [LY2017004519]	Literacy Work	Co-Inventor	2017
6.	Gold Package (Customized) Report Module [LY2017004534]	Literacy Work	Co-Inventor	2017
7.	Gold Package (Customized) Weightage Module - Review Function [LY2017004533]	Literacy Work	Co-Inventor	2017
8.	Platinum Package (Mandatory) Registration Module [LY2017004517]	Literacy Work	Co-Inventor	2017
9.	Platinum Package (Mandatory) Log-in Module [LY2017004531]	Literacy Work	Co-Inventor	2017
10.	Platinum Package (Mandatory) Assessment Module [LY2017004516]	Literacy Work	Co-Invent	2017
11.	Platinum Package (Mandatory) Weightage Review Module [LY2017004518]	Literacy Work	Co-Inventor	2017
12.	Platinum Package (Mandatory) Weightage Module [LY2017004532]	Literacy Work	Co-Inventor	2017

No.	Title of Copyright	Category	Role (Main/Co-Inventor)	Year
13.	Personnel Management System Advanced Package [LY2017003992]	Literacy Work	Co-Inventor	2017
14.	Personnel Management System - Source Code [LY2017003987]	Source Code and Software	Co-Inventor	2017
15.	Personnel Management System Basic Package (Manual) [LY2017003993]	Literacy Work	Co-Inventor	2017
16.	Personnel Management System Basic Package - Source Code [LY2017003991]	Source Code and Software	Co-Inventor	2017
17.	Management & Professional Staff Performance Appraisal System (Non-Academic) - Source Code [LY2017004535]	Source Code and Software	Co-Inventor	2017
18.	Management & Professional Staff Performance Appraisal System User Manual (Non-Academic) [LY2017004536]	Literacy Work	Co-Inventor	2017
19.	SEKU-An Anti Counterfeit Mobile Application System, CRLY00002711	Software	Co-Inventor	2015
20.	Dairy Farm Management Decision Support System	Software	Co-Inventor	2014
21.	Food Security Locating System	Software	Main Inventor	2013
22.	Forest Health Monitoring System	Software	Main Inventor	2013
23.	Watermarking QR Code's Data Transmission	Software	Main Inventor	2013
24.	Automated Template For Software Requirements Elicitation	Software	Co-Inventor	2013
25.	D'Seat	Software	Co-Inventor	2013
26.	Face Recognition System	Software	Co-Inventor	2013
27.	Mobile Flora Information System	Software	Co-Inventor	2013
28.	Mobile Forest Plant Tagging System	Software	Co-Inventor	2013
29.	Online Payment Extension for Paygate Magento Payment System	Software	Co-Inventor	2013
30.	Design on Static Object-Oriented Debugger	Literacy Work	Co-Inventor	2012
31.	Malay Interrogative Knowledge Corpus Database System	Software	Main Inventor	2012
32.	Malay Interrogative Knowledge Identifier	Software	Main Inventor	2012
33.	Static Object-Oriented Debugger	Software	Co-Inventor	2012
34.	CDDE (Compact Disc Digital Ethics)	Literacy Work	Main Inventor	2011
35.	CRLS (Combined Record Linkage System) Software Specification and Design	Literacy Work	Main Inventor	2011
36.	DECP (Digital Ethics Crossword Puzzle)	Literacy Work	Main Inventor	2011
37.	e-Counseling System Specification and Design	Literacy Work	Main Inventor	2011
38.	Online Malay Dictionary and Mobile Application System Software and Design	Literacy Work	Main Inventor	2011
39.	P'SAMAK Database Design	Literacy	Main	2011

No.	Title of Copyright	Category	Role (Main/Co-Inventor)	Year
		Work	Inventor	
40.	Sistem Penilaian Merit (Merit Appraisal System) Software Specification Design	Literacy Work	Main Inventor	2011
41.	Student Portal Hostel Software Specification and Design	Literacy Work	Main Inventor	2011
42.	Vehicle Service Software Specification and Design	Literacy Work	Main Inventor	2011
43.	Database Design for Trusted Human Resource Management System (THRMS)	Literacy Work	Co-Inventor	2011
44.	Digital Ethics Video	Literacy Work	Co-Inventor	2011
45.	E-Vailability mobile system software design	Literacy Work	Co-Inventor	2011
46.	Framework of Medical Information Retrieval System	Literacy Work	Co-Inventor	2011
47.	Framework Of Semantic Based Fuzzy Text Classifier	Literacy Work	Co-Inventor	2011
48.	Geriatrics Information management Database Design	Literacy Work	Co-Inventor	2011
49.	Knowledge Extraction, Profiling and Networking (KEPSNet) software Design	Literacy Work	Co-Inventor	2011
50.	Online Food Ordering System Design	Literacy Work	Co-Inventor	2011
51.	Simple Network Protocol (SNMP) Data Retrieval Application	Literacy Work	Co-Inventor	2011
52.	Social Network Addiction	Literacy Work	Co-Inventor	2011
53.	System Design for Dialogue-based Train Information System	Literacy Work	Co-Inventor	2011
54.	Technology Growth Video	Literacy Work	Co-Inventor	2011
55.	Texture Synthesis Application	Literacy Work	Co-Inventor	2011
56.	CRLS (Combined Record Lingkage System)	Software	Main Inventor	2011
57.	e-Counseling System	Software	Main Inventor	2011
58.	Online Malay Dictionary and Mobile Dictionary System	Software	Main Inventor	2011
59.	P'SAMAK System	Software	Main Inventor	2011
60.	Sistem Ilmu Sumber Manusia (SISMAN) (Human Resource Knowledge System)	Software	Main Inventor	2011
61.	Sistem Penilaian Merit (Merit Appraisal System)	Software	Main Inventor	2011
62.	Student Portal Hostel System	Software	Main Inventor	2011
63.	Vehicle Service System	Software	Main Inventor	2011
64.	Dialogue-based Train Information System	Software	Co-Inventor	2011
65.	e-Perubatan (e-Medical) System Universiti Putra Malaysia	Software	Co-Inventor	2011
66.	e-Vailability Mobile System	Software	Co-Inventor	2011
67.	Geriatrics Information Management Software	Software	Co-Inventor	2011

No.	Title of Copyright	Category	Role (Main/Co-Inventor)	Year
68.	Knowledge Extraction Profiling and Networking (KEPSNET) Software	Software	Co-Inventor	2011
69.	Online Food Ordering System Design	Software	Co-Inventor	2011

PUBLICATIONS

I.   JOURNALS

2024

1. Anahita Ghazvini, Nurfadhlina Mohd Sharef, **Fatimah Sidi**l. 2024. Prediction of Course Grades in Computer Science Higher Education Program via a Combination of Loss Functions in LSTM Model. *In IEEE Access*, 12: 30220-30241. ISSN: 2169-3536. DOI: 10.1109/ACCESS.2024.3351186 [Science Citation Index (JCR), Impact Factor: 3.367, Q2]

2. Mohammed Tuays Almuqati, **Fatimah Sidi,** Siti Nurulain Mohd Rum, Maslina Zolkepli. 2024. Challenges in Supervised and Unsupervised Learning: A Comprehensive Overview. *In International Journal on Advanced Science, Engineering and Information Technology,* 14(4), 1449-1455. Retrieved from https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20191/4404 [Scopus]

3. Danga Imbaji Injuwe, Hamidah Ibrahim, **Fatimah Sidi,** Iskandar Ishak. 2024. A User Control Framework for Cloud Data Migration in Software as a Service. *In International Journal of Advanced Computer Science and Applications,* 15(3), 786-796. DOI: 10.14569/IJACSA.2024.0150380

4. Mudathir Ahmed Mohamud, Hamidah Ibrahim, **Fatimah Sidi,** Siti Nurulain Mohd Rum, Zarina Dzolkhifli, Zhang Xiaowei. 2024. A Performance Analysis of Prediction Techniques in Handling High-Dimensional Uncertain Data for the Application of Skyline Query over Data Stream. *In IEEE Access*, 12: 120877-120898. ISSN: 2169-3536. DOI: 10.1109/ACCESS.2024.3450863 [Science Citation Index (JCR), Impact Factor: 3.367, Q2]

5. Visalakshi Palaniappan, Iskandar Ishak, Hamidah Ibrahim, **Fatimah Sidi,** Zuriati Ahmad Zukarnain. 2024. A Review on High Frequency Trading Forecasting Methods: Opportunity and Challenges for Quantum based Method. *In IEEE Access*, ISSN: 2169-3536. DOI: 10.1109/ACCESS.2024.3418458 [Science Citation Index (JCR), Impact Factor: 3.367, Q2]

6. Yessirkep Appak Nurlankyzy, Zulpykhar Zh.E., Nurbekova G., **Fatimah Sidi**. 2024. The Effectiveness and Features of Intelligent Learning Systems in the Process of Teaching Computer Science Teachers. In *Bulletin of National Academy of Sciences of the Republic*

of Kazakhstan, 4(410): 207–218. ISSN: 1991-3494. DOI: https://doi.org/10.32014/2024.2518-1467.799

7. Shameen Aina Abdul Rahim, **Fatimah Sidi**, Lilly Suriani Affendey, Iskandar Ishak, Appak Yessirkep Nurlankyzy. 2024. Leveraging Data Lake Architecture for Predicting Academic Student Performance. In *International Journal on Advanced Science, Engineering and Information Technology*, - Accepted

8. **Fatimah Sidi**, Kurmashev Ildar Gusmanovich, Lili Nurliyana Abdullah, Mustafa Alabadla, Iskandar Ishak. 2024. Missing Values Imputation Tool Using Imputex Algorithm. In *Scientific Journal Vestnik of the North Kazakhstan Universiti*, - Accepted

9. Lili Nurliyana Abdullah, **Fatimah Sidi**, Kurmashev Ildar Gusmanovich, Iklasova Kaynizhamal Esimseitovna, Mohamad Yusnisyahmi Yusof, Iskandar Ishak. 2024. Ensemble Deep Learning Approach for Apple Fruitlet Detection from Digital Images. In *Scientific Journal Vestnik of the North Kazakhstan Universiti*, - Accepted

10. Lili Nurliyana Abdullah, **Fatimah Sidi**, Iklasova Kainizhamal Esimseitovna, Noris Mohd Norowi, Nurul Amelina Nasharuddin. 2024. Enhancing Personalized Learning through Artificial Intelligence in Adaptive Learning Systems. In *Scientific Journal Vestnik of the North Kazakhstan Universiti*, - Accepted

2023

11. Siti Maisara Murniyati Muin, **Fatimah Sidi,** Iskandar Ishak, Hamidah Ibrahim, Lilly Suriani Affendey, Mohd Faizal Daud, Syemsul Bahrim Abdul, Rostam Abu Bakar. (2023). Predicting Academic Student Performance based on e-Learning Platform Engagement using Learning Management System Data. *In International Journal on Recent and Innovation Trends in Computing and Communication,* 11(9), 1859–1866. Retrieved from https://ijritcc.org/index.php/ijritcc/article/view/9178 [Scopus]

12. Mudathir Ahmed Mohamud, Hamidah Ibrahim, **Fatimah Sidi**, Siti Nurulain Mohd Rum, Zarina Binti Dzolkhifli, Zhang Xiaowei, Ma'aruf Mohammed Lawal. 2023. A Systematic Literature Review of Skyline Query Processing Over Data Stream. *In IEEE Access*, 11: 72813–72835. ISSN: 2169-3536. DOI: 72813–72835 [Science Citation Index (JCR), Impact Factor: 3.367, Q2]

13. Caiwen Li, Iskandar Ishak, Hamidah Ibrahim, Maslina Zolkepli, **Fatimah Sidi**, Caili Li. 2023. Deep Learning-Based Recommendation System: Systematic Review and Classification. *In IEEE Access*, 11: 113790-113835. ISSN: 2169-3536. DOI: 72813–72835 [Science Citation Index (JCR), Impact Factor: 3.367, Q2]

2022

14. Mustafa Alabadla, **Fatimah Sidi**, Iskandar Ishak, Hamidah Ibrahim, Lilly Suriani Affendey, Zafienas Che Ani, Marzanah A. Jabar, Umar Ali Bukar, Navin Kumar Devaraj, Ahmad Sobri Muda, Anas Tharek, Noritah Omar, M. Izham Mohd Jaya. 2022. Systematic Review of

Using Machine Learning in Imputing Missing Values. *In IEEE Access*, 10: 44483-44502. ISSN: 2169-3536. DOI: 10.1109/ACCESS.2022.3160841 [Science Citation Index (JCR), Impact Factor: 3.367, Q2]

15. Umar Ali Bukar, **Fatimah Sidi**, Marzanah A. Jabar, Rozi Nor Haizan Nor, Salfarina Abdullah, Iskandar Ishak, Mustafa Alabadla, Ali Alkhalifah. 2022. How Advanced Technological Approaches Are Reshaping Sustainable Social Media Crisis Management and Communication: A Systematic Review. *In Sustainability*, 14 (10): 1-26. ISSN: 2071-1050. https://doi.org/10.3390/su14105854 [Science Citation Index (JCR), Impact Factor: 3.251, Q2]

16. Umar Ali Bukar, **Fatimah Sidi**, Marzanah A. Jabar, Rozi Nor Haizan Nor, Salfarina Abdullah, Iskandar Ishak. 2022. A Multi-Stage Analysis of Predicting Public Resilience of Impactful Social Media Crisis Communication in Flooding Emergencies. *In IEEE Access,* 10: 57266-57282. ISSN: 2169-3536. doi: 10.1109/ACCESS.2022.3176963 [Science Citation Index (JCR), Impact Factor: 3.367, Q2]

17. Mustafa Alabadla, **Fatimah Sidi**, Iskandar Ishak, Hamidah Ibrahim, Lilly Suriani Affendey, Hazlina Hamdan. 2022. ExtraImpute: A Novel Machine Learning Method for Missing Data Imputation. *Journal of Advances in Information Technology*, 13 (5): 470-476. ISSN: 1798-2340 (Online). doi: 10.12720/jait.13.5.470-476 [Scopus]

18. Mohammed Abdo Albaom, **Fatimah Sidi**, Marzanah A. Jabar, Rusli Abdullah, Iskandar Ishak, Nur Anita Yunikawati, Magistyo Purboyo Priambodo, Mohammed Saleh Nusari, Dhakir Abbas Ali. 2022. The Moderating Role of Personal Innovativeness in Tourists' Intention to UseWeb 3.0 Based on Updated Information Systems Success Model. *In Sustainability*, 14 (21), 13935: 1-35. e-ISSN: 2071-1050. https://doi.org/10.3390/su142113935 [Science Citation Index (JCR), Impact Factor: 3.251, Q2]

19. Umar Ali Bukar, Marzanah A. Jabar, **Fatimah Sidi**, Rozi Nor Haizan Nor, Salfarina Abdullah, Iskandar Ishak. 2022. How social media crisis response and social interaction is helping people recover from Covid-19: an empirical investigation. *In Journal of Computational Social Science,* 5: 781-809. ISSN: 2432-2717. https://doi.org/10.1007/s42001-021-00151-7 [Web of Science: Emerging Sources Citation Index]

20. Norwini Zaidi, Iskandar Ishak, **Fatimah Sidi**, Lilly Suriani Affendey. 2022. An Efficient Schema Transformation Technique for Data Migration from Relational to Column-Oriented Databases. *In Computer Systems Science & Engineering*, 43 (3): 1175-1188. ISSN: 0267-6192. doi:10.32604/csse.2022.021969 [Science Citation Index (JCR), Impact Factor: 1.48600, Q3]

21. Ghoncheh Babanejad Dehaki, Hamidah Ibrahim, Ali A. Alwan, **Fatimah Sidi**, Nur Izura Udzir, Ma'aruf Mohammed Lawal. 2022. Efficient Region-based Skyline Computation for a Group of Users. *In IEEE Access*, 10: 94496-94517. ISSN: 2169-3536. DOI: 10.1109/ACCESS.2022.3204115 [Science Citation Index (JCR), Impact Factor: 3.367, Q2]

22. Ghoncheh Babanejad Dehaki, Hamidah Ibrahim, Ali A. Alwan, **Fatimah Sidi**, Nur Izura Udzir, Ma'aruf Mohammed Lawal. 2022. A Continuous Region-Based Skyline Computation for a Group of Mobile Users. *In Symmetry-Basel, 14 (10): 1-29. ISSN: 2073-8994. https://doi.org/10.3390/sym13122394 [Science Citation Index (JCR), Impact Factor: 2.713, Q2]*

2021

23. Ghazaleh Babanejad Dehaki, Hamidah Ibrahim, Ali A. Alwan, **Fatimah Sidi**, Nur Izura Udzir. 2021. Efficient Skyline Computation over an Incomplete Database with Changing States and Structures. *In IEEE Access*, 9: 88699-88723. ISSN: 2169-3536. https://doi.org/10.1109/ACCESS.2021.3094547 [Science Citation Index (JCR), Impact Factor: 3.367, Q2]

24. Nurul Husna Mohd Saad, Hamidah Ibrahim, **Fatimah Sidi**, Razali Yaakob, Ali A. Alwan. 2021. Efficient Skyline Computation on Uncertain Dimensions. *In IEEE Access*, 9: 96975-96994. ISSN: 2169-3536. https://doi.org/10.1109/ACCESS.2021.3094547 [Science Citation Index (JCR), Impact Factor: 3.367, Q2]

25. Teo Poh Kuang, Hamidah Ibrahim, **Fatimah Sidi**, Nur Izura Udzir, Ali A. Alwan. 2021. An Effective Naming Heterogeneity Resolution for XACML Policy Evaluation in a Distributed Environment. *In Symmetry-Basel*, 13 (12): 1-26. ISSN: 2073-8994. https://doi.org/10.3390/sym13122394 [Science Citation Index (JCR), Impact Factor: 2.64500, Q2]

26. M. Izham Jaya**, Fatimah Sidi**, Umar Ali Bukar, Iskandar Ishak, Hamidah Ibrahim, Lilly Suriani Affendey, Marzanah A. Jabar, Navin Kumar Devaraj, Mustafa Alabadla. 2021. Trust Score Measurement Method for Web Donor Selection and Imputation of Missing Values. *In Journal of Theoretical and Applied Information Technology*, 99(23): 5898-5909. ISSN: 1992-8645. [Scopus]

27. Mohammed Abdo Albaom, **Fatimah Sidi**, Marzanah A. Jabar, Rusli Abdullah, Iskandar Ishak, Nur Anita Yunikawati, Magistyo Purboyo Priambodo, Jati Hiliamsyah Husen, Ossama Issac, Abdo Hasan Al-Harasi. 2021. The Impact of Tourist's Intention to Use Web 3.0: A Conceptual Integrated Model Based on TAM & DMISM. *In Journal of Theoretical and Applied Information Technology*, 99(24): 6222-6238. ISSN: 1992-8645. [Scopus]

28. Raja Azhan Syah Raja Wahab, Siti Nurulain Mohd Rum, Hamidah Ibrahim, **Fatimah Sidi**, Iskandar Ishak. 2021. A Method for Processing Top-k Continuous Query on Uncertain Data Stream in Sliding Window Model. *In WSEAS Transactions on Systems and Control*, 16(22): 261-269. E-ISSN: 2224-2856. https://doi.org/10.37394/23203.2021.16.22 [Scopus]

29. Iskandar Ishak, **Fatimah Sidi**, Rusli Abdullah, Yusmadi Yah, Azizi Sabron, Shahril Iskandar Amir, Saiful Ramadzan Hairani, Ahmad Sobri Muda, Anas Tharek. 2021. A Proposed Integration Architecture for University Research Data Repository to Support University and University Hospital on Medical Digital Image Management and

Analytics Using Hadoop. *In Turkish Journal of Computer and Mathematics Education,* 12(3): 2077-2082. E-ISSN:1309-4653.

30. Normala Che Eembi @ Jamil, Iskandar Ishak, **Fatimah Sidi,** Lilly Suriani Affendey. 2021. Fakeheader: A Tool to Detect Deceptive Online News Based on Misleading News Headlines and Contents. *In Turkish Journal of Computer and Mathematics Education,* 12(3): 2217–2223. E-ISSN:1309-4653.

2020

31. Asghar Darvishy, Hamidah Ibrahim, **Fatimah Sidi**, Aida Mustapha. 2020. HYPNER: A Hybrid Approach for Personalized News Recommendation. *In IEEE Access,* 8: 46877-46894. ISSN: 2169-3536. https://doi.org/10.1109/ACCESS.2020.2978505 [Science Citation Index (JCR), Impact Factor: 4.09800, Q1]

32. Ghazaleh Babanejad Dehaki, Hamidah Ibrahim, **Fatimah Sidi**, Nur Izura Udzir, Ali A. Alwan, Yonis Gulzar. 2020. Efficient Computation of Skyline Queries Over A Dynamic and Incomplete Database. *In IEEE Access*, 8: 141523-141546. ISSN: 2169-3536. https://doi.org/10.1109/ACCESS.2020.3011652 [Science Citation Index (JCR), Impact Factor: 4.09800, Q1]

33. Umar Ali Bukar, Marzanah A. Jabar, **Fatimah Sidi**, Rozi Nor Haizan Nor, Salfarina Abdullah, Mohamed Othman. 2020. Crisis Informatics in the Context of Social Media Crisis Communication: Theoretical Models, Taxonomy, and Open Issues. *In IEEE Access*, 8: 185842-185869. ISSN: 2169-3536. https://doi.org/10.1109/ACCESS.2020.3030184 [Science Citation Index (JCR), Impact Factor: 4.09800, Q1]

34. Teo Poh Kuang, Hamidah Ibrahim, **Fatimah Sidi**, Nur Izura Udzir. 2020. Modality Conflict Detection Model with Authorization Propagation in Policy Evaluation. *In Journal of Theoretical and Applied Information Technology*, 98(17): 3472-3485. ISSN: 1992-8645. [Scopus]

35. Umar Ali Bukar, **Fatimah Sidi**, Marzanah A. Jabar, Rozi Nor Haizan Nor, Salfarina Abdullah, Iskandar Ishak. 2020. Crisis-driven interaction: Crisis informatics model for green building resilience. *In Journal of Green Engineering*, 10(9): 6990-7001. ISSN:1904-4720 [Scopus]

36. Yunus Parvej Faniband, Iskandar Ishak, **Fatimah Sidi**, Marzanah A. Jabar. 2020. A Cloud-Based Distributed Platform for Secured EPUB EBOOK Contents. *In International Journal of Emerging Trends in Engineering Research*, 8(10): 6630-6637. ISSN: 2347-3983. https://doi.org/10.30534/ijeter/2020/018102020

2019

37. Mohd Izham Mohd Jaya, **Fatimah Sidi**, Lilly Suriani Affendey, Marzanah A Jabar, Iskandar Ishak. 2019. Systematic Review of Data Quality Research. *In Journal of Theoretical and Applied Information Technology*, 97(21): 3043-3068. ISSN: 1992-8645. [Scopus]

38. Kartini Mohamed, **Fatimah Sidi**, Iskandar Ishak, Marzanah A. Jabar, Siti Raba'ah Hamzah. 2019. An Improved User Authentication Model for Mobile Application Systems: An Expert Review Verification. *In International Journal of Advanced Trends in Computer Science and Engineering*, 8(1): 469-473. ISSN: 2278-3091. https://doi.org/10.30534/ijatcse/2019/7481.42019 [Scopus]

39. Kartini Mohamed, **Fatimah Sidi**, Iskandar Ishak, Marzanah A. Jabar, Siti Raba'ah Hamzah. 2019. An Improved User Authentication Model for Mobile Application Systems: Statistical Assessment of User Acceptance. *In International Journal of Engineering and Advanced Technology*, 9(1): 3448-3451. ISSN: 2249-8958. https://doi.org/10.35940/ijeat.A2658.109119 [Scopus]

40. Asghar Darvishy, Hamidah Ibrahim, **Fatimah Sidi**, Aida Mustapha. 2019. A Customized Non-Exclusive Clustering Algorithm for News Recommendation Systems. *In Journal of University of Babylon, Pure and Applied Sciences (JUBES)*, 27(1): 368-379. ISSN: 2312-8135. https://doi.org/10.29196/jubpas.v27i1.2192 [Citation-Indexed Journal – Google Scholar]

41. UA Bukar, Marzanah A. Jabar, **Fatimah Sidi**. 2019. Crisis Informatics: A Systematic Evaluation. *In International Journal of Advanced Science and Technology*, 9(1): 3444-3447. ISSN: 2249–8958. https://doi.org/10.35940/ijeat.A2655.109119 [Scopus]

42. Iskandar Ishak, Nur Ilyana Ismarau Tajuddin, Yusmadi Yah Jusoh, **Fatimah Sidi**, Rusli Abdullah, Hamiruce Marhaban, Yusnita Tugiran, Yushaida Yusof. 2019. Influencing Factors in Determining Research Data Repository Infrastructure for Research Data Management. *In International Journal of Engineering and Advanced Technology*, 9(1): 1655-1660. ISSN: 2249-8958. https://doi.org/10.35940/ijeat.A2645.109119 [Scopus]

43. Yusmadi Yah Jusoh, Rusli Abdullah, **Fatimah Sidi**, Iskandar Ishak, Suhaimi Napis, Mohammad Hamiruce Marhaban, Yusnita Tugiran, Nur Ilyana Ismarau Tajuddin. 2019. Research Data Management in Supporting Knowledge Sharing Among Univesity Researchers. *In International Journal of Advanced Science and Technology*, 28(2): 370-376. ISSN: 2005-4238. [Scopus]

44. Shahla Asadi, Rusli Abdullah, Yusmadi Jusoh, **Fatimah Sidi.** 2019. Exploring researchers' attitude toward the using of institutional repositories at University Putra Malaysia. *In International Journal of Academic Research in Business and Social Sciences*, 9(13): 1012-1024. ISSN 2222-6990. http://dx.doi.org/10.6007/IJARBSS/v9-i11/6622 [Citation-Indexed Journal – ERA, Google Scholar]

45. Yunus Parvej Faniband, Iskandar Ishak, **Fatimah Sidi,** Marzanah A. Jabar. 2019. NetMob: A Mobile Application Development Framework with Enhanced Large Objects Access for Mobile Cloud Storage Service. *In International Journal of Advanced Computer Science and Applications*, 10(7): 639–650. ISSN: 2156-5570. https://doi.org/10.14569/ijacsa.2019.0100784 [Scopus]

46. Napis, S., Michael, V.A., Jusoh, Y.Y., Abdullah, R., **Sidi, F.**, Ishak, I., Marhaban, M.H., Tugiran, Y. 2019. A Prelimenary Study on The Development of Research Data Management (RDM) Policy. *In*

International Journal of Advanced Science and Technology, 28(2): 377-384. ISSN: 2005-4238. [Scopus]

2018

47. **Fatimah Sidi**, Iskandar Ishak, Marzanah A. Jabar. 2018. MalayIK: An Ontological Approach to Knowledge Transformation in Malay Unstructured Documents. *In International Journal of Electrical and Computer Engineering (IJECE)*, 8(1): 1-10. ISSN: 2088-8708. https://doi.org/10.11591/ijece.v8i1.pp1-10 [Scopus] http://www.iaescore.com/journals/index.php/IJECE/article/view/10092

48. Ali A. Alwan, Hamidah Ibrahim, Nur Izura Udzir, **Fatimah Sidi**. 2018. Missing Values Estimation for Skylines in Incomplete Database, *In International Arab Journal of Information Technology (IAJIT)*, 15(1): 66-75, ISSN: 1683-3198. [Science Citation Index (JCR), Impact Factor: 0.519, Q4]

49. Siti Rozana Supian, Ismi Arif Ismail, **Fatimah Sidi**, Zoharah Omar. 2018. The Relationship between Human Resource Practices and Talent Retention among Professional and Management Staff in a Public University in Malaysia, *In Journal of International Journal of Academic Research in Business and Social Sciences*, 8(7): 834–862. ISSN: 2222-6990. http://dx.doi.org/10.6007/IJARBSS/v8-i7/4423 [Citation-Indexed Journal - ERA]

50. Teo Poh Kuang, Hamidah Ibrahim, **Fatimah Sidi**, Nur Izura Udzir. 2018. An Effective Modality Conflict Model for Identifying Applicable Policies During Policy Evaluation, *In the Journal of Advances in Computer Engineering and Technology (JACET)*, 4(4): 255-266. ISSN: 2423-4206. [Citation-Indexed Journal – Google Scholar, DOAJ, Civilica]

51. Norwini Zaidi, Iskandar Ishak, **Fatimah Sidi**, Lilly Suriani Affendey. 2018. A Review on Data Transformation Approaches for Data Migration Processes from Relational Database to NoSQL Database. *In International Journal of Engineering and Technology*, 7(4): 3335-3339. ISSN: 2227-524X. [Citation-Indexed Journal – Google Scholar]

52. Normala Che Eembi, Iskandar Ishak, **Fatimah Sidi**, Lilly Suriani Affendey. 2018. A Study on Detecting Misleading Online News Using Bigram and Cosine Similarity. *In International Journal of Engineering and Technology*, 7(4.31): 242-245. ISSN: 2227-524X. [Scopus]

53. Maslina Daud, Sabariah Ahmad, Syafiqa Anneisa Abdullah, Naqliyah Zainuddin, **Fatimah Sidi**, Marzanah A. Jabar, Lilly Suriani Affendey, Nurfadhlina Mohd Sharef, Iskandar Ishak, Maslina Zolkepli, Fatin Nur Majdina Nordin, Nur Zahirah Md Noor, Norazlin Yusof, Hashimah Amat Sejani, Saiful Ramadzan Hairani and Azizi Sabron. 2018. Scoring Matrix Framework for Threat Factor Profiling Model. *In International Journal of Engineering and Technology (IJET)*, 7(4.31): 499-504. ISSN: 2227-524X. [Citation-Indexed Journal – Google Scholar]

54. Marina Hassan, Marzanah A. Jabar, **Fatimah Sidi,** Yusmadi Yah Jusoh, Salfarina Abdullah. 2018. Critical Success Factors and Their Influence in ERP Implementation Success of Organizational

Performance. *In Acta Informatica Malaysia*, 2(1): 12-16. ISSN: 2521-0874. [Citation-Indexed Journal – Google Scholar, DOAJ]

55. Yunus Parvej Faniband, Iskandar Ishak, **Fatimah Sidi**, Marzanah A. Jabar, 2018. A Review of Data Synchronization and Consistency Frameworks for Mobile Cloud Applications, *In International Journal of Advanced Computer Science and Applications*, 9(12): 601–611. ISSN: 2158-107X. https://doi.org/10.14569/IJACSA.2018.091284 [Scopus]

2017

56. **Fatimah Sidi**, A. Jabar Marzanah, Lilly Suriani Affendey, Iskandar Ishak, Nurfadhlina Mohd Sharef, Maslina Zolkepli, Tan Ming Ming, Muhammad Faidhi Abd Mokthi, Maslina Daud, Naqliyah Bt Zainuddin, Rafidah Abdul Hamid. 2017. A Comparative Analysis Study on Information Security Threat Models: A Propose for Threat Factor Profiling. *In Journal of Engineering and Applied Sciences*, 12(3): 548-554. ISSN: 1816-949X, http://doi.org/10.3923/jeasci.2017.548.554. http://www.medwelljournals.com/archivedetails.php?jid=1816-949x&issueno=99 [Scopus]

57. M. Izham Jaya, **Fatimah Sidi,** Iskandar Ishak, Lilly Suriani Affendey, Marzanah A. Jabar. 2017. A Review of Data Quality Research in Achieving High Data Quality within Organization. *In Journal of Theoretical and Applied Information Technology*, 95(12): 2647-2657. ISSN: 1992-8645. [Scopus]
http://www.jatit.org/volumes/Vol95No12/5Vol95No12.pdf

58. Sharmila Mat Yusof, **Fatimah Sidi**, Hamidah Ibrahim and Lilly Suriani Affendey. 2017. Data Warehouse Conceptual Design - A Literature Survey. *In Journal of Engineering and Applied Sciences*, 12(16): 4208-4214. ISSN: 1816-949X,
URL: http://medwelljournals.com/abstract/?doi=jeasci.2017.4208.4214 [Scopus]

59. Normala Che Eembi Jamil, Iskandar Ishak, **Fatimah Sidi**, Lilly Suriani Affendey. 2017. Towards a Headline-based Deception Detection Approach for Data Veracity in Online Digital News. *In Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*, 9(2-11): 33-37. ISSN: 2180-1843. [Scopus]

60. Ali A. Alwan, Hamidah Ibrahim, Nur Izura Udzir, **Fatimah Sidi**. 2017. Processing Skyline Queries in Incomplete Distributed Databases, *In Journal of Intelligent Information Systems (JIIS)*, 48(2): 399-420, ISSN: 0925-9902, https://doi.org/10.1007/s10844-016-0419-2 https://link.springer.com/article/10.1007/s10844-016-0419-2. [Science Citation Index (JCR), Impact Factor: 1.000, Q3]

2016

61. Cecilia Adrian, **Fatimah Sidi,** Rusli Abdullah, Iskandar Ishak, Lilly Suriani Affendey, Marzanah A. Jabar. 2016. Big Data Analytics Implementation for Value Discovery: A Systematic Literature Review, *In Journal of Theoretical and Applied Information Technology*, 93(2): 385-393. ISSN: 1992-8645. [Scopus]

62. Iskandar Ishak, **Fatimah Sidi**, Marzanah A. Jabar. 2016. Object Recognizer for Organizing and Structuring Unstructured Documents Using Interrogative Knowledge, *In Journal of Theoretical and Applied Information Technology*, 87(3): 442-450. ISSN: 1992-8645. [Scopus]

63. Kartini Mohamed, **Fatimah Sidi,** Marzanah A. Jabar, Iskandar Ishak, Norahana Salimin, Nor Safwan Amirul Salleh, Abdul Qaiyum Hamzah, Ahmad Dahari Jarno, Muhamad Faeez Pauzi. 2016. Strengthening User Authentication for Better Protection of Mobile Application Systems, *In Journal of Theoretical and Applied Information Technology*, 85(3): 416-424. ISSN: 1992-8645, E-ISSN: 1817-3195. [Scopus]

64. Kartini Mohamed, **Fatimah Sidi,** Marzanah A. Jabar, Iskandar Ishak. 2016. Protecting Wireless Data Transmission in Mobile Application Systems Using Digital Watermarking Technique, *In Journal of Theoretical and Applied Information Technology*, 83(1): 52-63. ISSN: 1992-8645. [Scopus]

65. Marina Hassan, Marzanah A. Jabar, **Fatimah Sidi**, Yusmadi Yah Jusoh, Salfarina Hassan. 2016. Enterprise Resource Planning Adoption Lifecycle: A Systematic Literature Review, *In Journal of Theoretical and Applied Information Technology*, 85(3): 403-410. ISSN: 1992-8645. [Scopus]

66. Ali A. Alwan, Hamidah Ibrahim, Nur Izura Udzir, **Fatimah Sidi**. 2016. An Efficient Approach for Processing Skyline Queries in Incomplete Multidimensional Database, *In Arabian Journal for Science and Engineering*, 41(8): 2927-2943. ISSN: 1319-8025. https://doi.org/10.1007/s13369-016-2048-z [Scopus]

67. Saad, N.H.M., Ibrahim, H., Sidi, F., Yaakob, R., Alwan, A.A. 2016. Reporting Skyline on Uncertain Dimension with Query Interval, *In Journal of Telecommunication, Electronic and Computer Engineering*, 8(6): 17-21. ISSN: 2180-1843. https://jtec.utem.edu.my/jtec/article/view/1238/732 [Scopus]

2015

68. **Fatimah Sidi**, Marzanah A. Jabar, Iskandar Ishak, Aida Mustapha. 2015. A Web-based Interrogative Ontology Retrieval Application for Unstructured Documents, *In Journal of Convergence Information Technology*, 10(1): 110-121. ISSN: 1975-9320 [Scopus] http://www.aicit.org/JCIT/ppl/JCIT4284PPL.pdf

69. Tan Ming Ming, Marzanah A. Jabar, **Fatimah Sidi,** Koh Tieng Wei. 2015. A Systematic Literature Review of Computer Ethics Issues, *In Journal of Theoretical and Applied Information Technology*, 78(3): 360-372. ISSN: 1992-8645. [Scopus]

70. Norulhaida Abdullah, Marzanah A. Jabar, **Fatimah Sidi**, Yusmadi Yah. 2015. Early prediction model to manage risks from earliest stages to increase project success, *In Journal of Theoretical and Applied Information Technology*, 81(3): 413–419. ISSN: 1992-8645. [Scopus]

71. Asghar Darvishy, Hamidah Ibrahim, Aida Mustapha, **Fatimah Sidi**. 2015. New Attributes for Neighborhood-based Collaborative Filtering in News Recommendation. *In Journal of Emerging Technologies in*

Web Intelligence, 7(1) 13-19. ISSN: 1798-0461. DOI: 10.12720/jetwi.7.1.13-19. [Citation-Indexed Journal – INSPEC, Google Scholar]

2014

72. Marzanah A. Jabar, Niloofar Yousefi, Ramin Ahmadi, **Fatimah Sidi**, Rozi Nor Haizan Nor. 2014. Design And Implementation Of An Advanced Web- Based Dairy Feeding Decision Support System. *In International Journal of Artificial Intelligence and Neural Networks*, 4(1) 5-9. ISSN: 2250-3749. [Citation-Indexed Journal – Seek Digital Library]
73. Marzanah A. Jabar, Abbas Usman Usman, **Fatimah Sidi**. 2014. Usability Evaluation of Universities' Websites. *In International Journal of Information Processing and Management (IJIPM)*, 5(1) 10-17. ISSN: 2093-4009. [Scopus]

2013

74. Payam Hassany Shariat Panahy, **Fatimah Sidi**, Lilly Suriani Affendey, Marzanah A. Jabar, Hamidah Ibrahim, Aida Mustapha. 2013. Discovering Dependencies among Data Quality Dimensions: A Validation of Instrument, *In Journal of Applied Sciences*, 13(1): 95-102. ISSN: 1812-5654. DOI: 10.3923/jas.2013.95.102 [Thomson ISI, Scopus]
75. Payam Hassany Shariat Panahy, **Fatimah Sidi**, Lilly Suriani Affendey, Marzanah A. Jabar, Hamidah Ibrahim, Aida Mustapha. 2013. A Methodology to Explore Rules and Methods for Data Quality Dimensions Toward Improvement the Quality of Database, *In Journal of Applied Sciences*, 13(4): 615-620. ISSN: 1812-5654. DOI: 10.3923/jas.2013.615.620 [Thomson ISI, Scopus]
76. Payam Hassany Shariat Panahy, **Fatimah Sidi**, Lilly Suriani Affendey, Marzanah A. Jabar, Hamidah Ibrahim, Aida Mustapha. 2013. A Framework to Construct Data Quality Dimensions Relationships, *In Indian Journal of Science and Technology*. 6(5): 4422-4431, ISSN: 0974-6846. [ISI, Thomson Reuters, Scopus, Elsevier B.V.]
77. Muhammed Basheer Jasser, **Fatimah Sidi**, Aida Mustapha, BinHamid Abdulelah Khaled T. 2013. Mining Students' Characteristics and Effects on University Preference Choice: A Case Study of Applied Marketing in Higher Education, *In International Journal of Computer Applications*, 67(21): 1-5, ISSN: 0975–8887, DOI: https://doi.org/10.5120/11516-7011 [Citation-Indexed Journal – EBSCO, Google Scholar]
78. **Fatimah Sidi**, Marzanah A. Jabar, Aida Mustapha, Nor Fazlida Mohd Sani, Iskandar Ishak, Siti Rozana Supian. 2013. Measuring Computer Security Awareness on Internet Banking and Shopping for Internet Users, *In Journal of Theoretical and Applied Information Technology*, 53(2): 210-216. ISSN: 1992-8645, [Scopus]
79. **Fatimah Sidi**, Kartini Mohamed, Marzanah A. Jabar, Iskandar Ishak, Hamidah Ibrahim, Aida Mustapha. 2013. A Review of Current Trend on Data Management and Quality in Data Communication, *In*

Australian Journal of Basic and Applied Sciences, 7(7): 755-760. ISSN: 1991-8178. http://www.ajbasweb.com/old/ajbas/2013/may/755-760.pdf [Google Scholar]

80. Fathuddin Mohd Abbas, Nor Fazlida Mohd Sani, Hanafi Bujang, Mohd Suzlezan Supu, **Fatimah Sidi**. 2013. E-Complaint System for Internal Customer in Royal Malaysian Police Force Using Formal Language Method, *In Australian Journal of Basic and Applied Sciences*, 7(4): 375-384. ISSN: 1991-8178 [Scopus, Google Scholar]

81. Ali A. Alwan, Hamidah Ibrahim, Nur Izura Udzir, **Fatimah Sidi**. 2013. Preference Evaluation Techniques of Preference Queries in Database, *In International Journal of Advancements in Computing Technology*, 5(5): 756-766.ISSN: 2005-8039 [Google Scholar]

82. Marzanah A. Jabar, Mohammad Fazli Azmi, **Fatimah Sidi**. 2013. Integration of Mobile and Web Application: An Implementation of Diabetic Management System, *In Journal of Theoretical and Applied Information Technology*, 55(2): 168-173. ISSN: 1992-8645. [Scopus]

83. Somayeh Shojaee, Aida Mustapha, **Fatimah Sidi**, Marzanah A. Jabar. 2013. A Study on Classification Learning Algorithms to Predict Crime Status, *In International Journal of Digital Content Technology and its Applications (JDCTA)*. 7(9): 361-369. ISSN: 1975-9339, doi:10.4156/jdcta.vol7.issue9.43 [Google Scholar]

84. Iskandar Ishak, **Fatimah Sidi,** Nor Fazlida Mohd Sani, Lilly Suriani Affendey, Ahmad Alauddin Ariffin, Raedi Fizuwan Mazli. 2013. The Design and Development of Peer-To-Peer Based Mobile Application for Pett*y Trading. In Journal of Theoretical and Applied Information Technology (JATIT),* 54(3) 518-524, ISSN: 1992-8645, http://www.jatit.org/volumes/Vol54No3/16Vol54No3.pdf [Scopus]

85. Marzanah A. Jabar, Zarei M.B., **Fatimah Sidi,** Nor Fazlida Mohd Sani 2013. A Review of Software Product Line Adoption, *In Journal of Theoretical and Applied Information Technology (JATIT),* 57(1) 88-94, ISSN: 1992-8645.
http://www.jatit.org/volumes/Vol57No1/12Vol57No1.pdf [Scopus]

2012

86. Iskandar Ishak, **Fatimah Sidi**, Aida Mustapha, Marzanah A.Jabar, Nor Fazlida Mohd. Sani, Siti Rozana Binti Supian. 2012. A Survey on Security Awareness among Social Networking Users in Malaysia, *In Australian Journal of Basic and Applied Sciences*, 6(12): 23-29.
http://www.ajbasweb.com/ajbas/2012/Nov%202012/23-29.pdf [Scopus]

87. Marzanah A. Jabar, Cheah C. Yeong, **Fatimah Sidi**, 2012. Information Systems Development Knowledge Sharing-Organizational Justice, Physical Distance and Social Interdependence. *In Journal of Computer Science*, 8(1): 31-40. ISSN: 1549-3636. https://doi.org/10.3844/jcssp.2012.31.40. [Scopus]

88. Muhammad Farahmanad, Abu Bakar Md Sultan, Masrah Azrifah Azmi Murad, **Fatimah Sidi**. 2012. Enhancing the relativity between content title and Meta tags based on Term Frequency in Lexical and semantic Aspect. *In International Journal of Innovative Ideas*, 12(1): 3-7.
ISSN 2232-1942.
http://www.publishtopublic.com/img/upload/2037/documents/10076.pdf

2011

89. Mohammadreza Ektefa, **Fatimah Sidi**, Hamidah Ibrahim, Marzanah A. Jabar, Sara Memar, 2011. A Comparative Study in Classification Techniques for Unsupervised Record Linkage Model. *In Journal of Computer Science*, 7(3): 341-347. ISSN: 1549-3636. https://doi.org/10.3844/jcssp.2011.341.347 [Scopus]
90. Mohammad Farahmand, Abu B.M.D. Sultan, Masrah A.A. Murad, **Fatimah Sidi**, 2011. Optimizing Title and Meta Tags Based on Distribution of Keywords; Lexical and Semantic Approaches. *In Journal of Computer Science*, 7(9): 1358-1362. ISSN: 1549-3636. https://doi.org/10.3844/jcssp.2011.1358.1362 [Scopus]
91. **Sidi, F.**, Jabar, M. A., Selamat, M. H., Ghani, A. A. A., Sulaiman, M. N., 2011. Malay Interrogative Knowledge Corpus. *In American Journal of Economics and Business Administration*, 3(1): 171-176. ISSN: 1945-5488. https://doi.org/10.3844/ajebasp.2011.171.176 [Citation-Indexed Journal – EBSCO, ProQuest]
92. Jabar, M. A., **Sidi, F.**, Selamat , M. H., Ghani , A. A.A., Ibrahim, H., Baharom, S., 2011. Capturing Tacit Knowledge for Assessing Employees' Competency and Productivity, *In American Journal of Economics and Business Administration*, 3(2): 358-362. ISSN: 1945-5488. https://doi.org/10.3844/ajebasp.2011.358.362 [Citation-Indexed Journal – EBSCO, ProQuest]
93. Kuang, T. P., Ibrahim, H., Udzir, N. I., **Sidi, F.**, 2011. Security Extensible Access Control Markup Language Policy Integration Based on Role-Based Access Control Model in Healthcare Collaborative Environments. *In American Journal of Economics and Business Administration*, 3(1): 101-111. ISSN: 1945-5488. https://doi.org/10.3844/ajebasp.2011.101.111. [Citation-Indexed Journal – EBSCO, ProQuest]
94. Ali A. Alwan, Hamidah Ibrahim, Tan Chik Yip, **Fatimah Sidi**, Nur Izura Udzir, Nurul Husna Mohd Saad, 2011. Performance Evaluation of Preference Queries Techniques over a High Multidimensional Database. *In International Journal of Computational Linguistics Research*, 2(1): 37-47. ISSN: 0976-416X. http://www.dline.info/jcl/ci.php [Citation-Indexed Journal – Google Scholar]

2010

95. Jabar, M.A., **Sidi, F.**, Selamat, M. H., 2010. Tacit Knowledge Codification. *In Journal of Computer Science*, 6(10): 1170-1176. ISSN: 1549-3636. https://doi.org/10.3844/jcssp.2010.1170.1176. [Scopus]

2009

96. **Sidi, F**., Jabar, M. A., Selamat, M. H., Ghani, A. A. A., Sulaiman, M. N., 2009. Framework for Interrogative Knowledge Identification. *In Computer and Information Science*, 2(4): 109-115. ISSN: 1913-8989.

http://www.ccsenet.org/journal/index.php/cis/article/view/3197
[Citation-Indexed Journal – DBLP Computer Science Bibliography, Google Scholar]

97. Jabar, M. A., **Sidi, F.**, Selamat, M. H., Ghani, A. A. A., Ibrahim H., 2009. An Investigation into Methods and Concepts of Qualitative Research in Information System Research. *In Computer and Information Science,* 2(4): 47-54. ISSN: 1913-8989. http://ccsenet.org/journal/index.php/cis/article/view/3200/3714.
[Citation-Indexed Journal – DBLP Computer Science Bibliography, Google Scholar]

98. Marjuni, S. H., Mahmod, R., Ghani, A. A. A., Zain, A. M., **Sidi, F.**, 2009. Towards Preprocessing on Criminal Chatting Corpus. *In MASAUM Journal of Basic and Applied Sciences*, 1(3). [Citation-Indexed Journal – Directory of Research Journals Indexing, Google Scholar]

II.   CONFERENCE PROCEEDINGS

2024

1. Mohamad Yusnisyahmi Yusof, Iskandar Ishak, **Fatimah Sidi**. 2024. *Ensemble Deep Learning Approach for Apple Fruitlet DetectionfFrom Digital Images.* In Book of Abstract and paper presented at the Modelling, Data Analytics and AI in Engineering 2024 (MadeAI2024), (Porto, Portugal), 2-5 July 2024. pp 251.
2. Shameen Aina Abdul Rahim, **Fatimah Sidi**, Lilly Suriani Affendey, Iskandar Ishak, Appak Yessirkep Nurlankyzy. 2024. *Leveraging Data Lake Architecture for Predicting Academic Student Performance.* Paper presented at the Applied Informatics International Conference 2024 (AiIC2024), (Putra Jaya, Malaysia), 2-3 October 2024.
3. Mustafa Alabadla, **Fatimah Sidi**, Iskandar Ishak, Hamidah Ibrahim, and Hazlina Hamdan. 2024. *Cross-platform Application for Imputing Missing Values using the ImputeX Algorithm.* Paper presented at the 12th International Symposium on Applied Engineering and Sciences (SAES2024), (Kyutech Japan), 14-15 Nov.
4. Lustina Fajar Prastiwi, Rani Destia Wahyuningsih, Nasikh, Magistyo Purboyo Priyambodo, Nur Anita Yunikawati, Annisya, **Fatimah Sidi**, (2024), *Bromo Tengger Semeru Economic Valuations During Pandemic Covid-19.* In the 6th International Research Conference on Economics and Business, KnE Social Sciences, pages 791–808. doi: 10.18502/kss.v9i4.15121

2023

5. Mustafa Alabadla, **Fatimah Sidi**, Iskandar Ishak, Hamidah Ibrahim, Hazlina Hamdan, Shahril Iskandar Amir, Appak Yessirkep Nurlankyzy. 2023. *AutoImpute: An Autonomous Web Tool for Data Imputation Based on Extremely Randomized Trees.* In Proceedings of the 12th International Conference on Data Science, Technology and Applications (DATA2023), (Italy, Rome), 11-13 July 2023. Volume 1, pp 598-605.
6. Yunus Parvej Faniband, Iskandar Ishak, **Fatimah Sidi**, Marzanah A Jabar, Deloria Shaniska Razin C.H. Yap. 2023. *An Efficient Distributed Framework for Secured Multimedia Content using Cloud Storage.* In Proceedings of the 2nd International Conference on Computer Technologies (ICCTech 2023), (Kuantan, Malaysia), 23- 25 February 2023, pp 57-63. Code 195706.

2022

7. Mustafa Alabadla, **Fatimah Sidi**, Iskandar Ishak, Hamidah Ibrahim, Lilly Suriani Affendey, Hazlina Hamdan. 2022. ExtraImpute: A Novel Machine Learning Method for Missing Data Imputation. Paper presented at the 8th International Conference on Information Management (ICIM 2022), (Cambridge, United Kingdom), 25-27 Mac 2022.

8. Nur Anita YunNikawati, Magistyo Purboyo Priambodo, **Fatimah Sidi**. 2022. *Cultural Events: Local Sustainable Tourism Development and Entrepreneurship*. In the E3S Web of Conferences, 361 (03017). E-ISSN: 2267-1242, https://doi.org/10.1051/e3sconf/202236103017, 29 November, pp 1-8. Paper presented at the International Conference on Agribusiness and Rural Development (IConARD 2022), (Yogyakarta, Indonesia), 20-21 July 2022.

2021

9. Nur Anita YunNikawati, Ni'Matul R. Istiqomah, Magistyo Purboyo Priambodo, **Fatimah Sidi**. 2021. *Can Community Based Tourism (CBT) support Sustainable Tourism in the Osing Traditional Village?* In the E3S Web of Conferences, 232 (02023). E-ISSN: 2267-1242, https://doi.org/10.1051/e3sconf/202123202023, 25 January, pp 1-10. Paper presented at the International Conference on Agribusiness and Rural Development (IConARD 2020), (Yogyakarta, Indonesia), 13-14 October 2020.
10. Nur Anita Yunikawati, Ni'Matul R. Istiqomah, Magistyo Purboyo Priambodo, Emma Yunika Puspasari, **Fatimah Sidi**, Marzanah A. Jabbar. 2021. *Community Based Rural Tourism (CBRT): The Impact on Local Residents Quality of Life in Indonesia.* In the E3S Web of Conferences, 228 (02012). E-ISSN: 2267-1242, https://doi.org/10.1051/e3sconf/202122802012, 13 January, pp 1-7. Paper presented at the International Conference on Climate Change, Green Energy and Environmental Sustainability (CCGEES 2020), (Haikou, China) 18-20 December 2020.
11. Umar Ali Bukar, Marzanah A. Jabar, **Fatimah Sidi**, Rozi Nor Haizan Nor, Salfarina Abdullah. 2021. *Social Media Crisis Communication Model for Building Public Resilience: A Preliminary Study.* In Proceedings of the the 24th International Conference on Business Information Systems (BIS 2021), (Hanover German (Online)), 14-17 June, pp 245-256.
12. Zarina Dzolkhifli, Hamidah Ibrahim, **Fatimah Sidi**, Lilly Suriani Affendey, Siti Nurulain Mohd Rum, Ali A. Alwan. 2021. *Efficient Skyline Computation of Multiple Range Skyline Queries.* In Proceedings of the 23nd International Conference on Information Integration and Web-based Applications & Services (iiWAS2021), (Austria (Online)), 29 Nov – 1 Dec, pp 393-401.
13. Ghoncheh Babanejad Dehaki, Hamidah Ibrahim, Nur Izura Udzir, **Fatimah Sidi**, Ali A. Alwan. 2021. *A Fragmentation Region-based Skyline Computation Framework for a Group of Users.* In Proceedings of the 9th International Conference on Database and Data Mining (DBDM 2021), (Dubai , U.A.E), 28 – 29 Aug, pp 35-50.

2020

14. Nur Anita Yunikawati, Ni'matul Istiqomah, Marzanah A. Jabbar, **Fatima Sidi**. 2020. *Model of Development Rural Tourism Batik in Banyuwangi: A sustainable Development*. In the E3S Web of Conferences, 208(5001). ISSN: 25550403.

https://doi.org/10.1051/e3sconf/202020805001, 24 Nov, pp 1-10. Paper presented at the First Conference on Sustainable Development: Industrial Future of Territories (IFT 2020), (Russian), 28-29 September 2020.

15. Magistyo P. Priambodo, Nur Anita Yunikawati, Emma Yunika Puspasari, Sri Handayani, Marzanah A Jabbar, **Fatima Sidi**. 2020. *Reveal of Household Capabilities through Financial Literacy in Community-Based Tourism*. In the E3S Web of Conferences, 153(03006). ISSN: 22671242. https://doi.org/10.1051/e3sconf/202015303006, 17 Feb, pp 1-11. Paper presented at the International Conference on Sustainability Science and Management: Advanced Technology in Environmental Research (CORECT-IJJSS 2019), (Bali, Indonesia), 14-15 November 2019.

16. Ghazaleh Babanejad Dehaki, Hamidah Ibrahim, Fatimah Sidi, Nur Izura Udzir, Ali A. Alwan. 2020. *A Rule-based Skyline Computation over a Dynamic Database.* In Proceedings of the 22nd International Conference on Information Integration and Web-based Applications & Services (iiWAS2020), 30 Nov - 02 Dec, pp 97–103.

17. **Fatimah Sidi**, Iskandar Ishak, Prissha Shanmugam, Kirtana Nair Gopalan. 2020. *IoT-based Door Locking Mechanism using Face Recognition Authentication*. Paper presented at the 8th International Symposium on Applied Engineering and Sciences (SAES2020), Virtual Conference, (Kyutech Japan), 12-19 Dec.

2019

18. Zarina Dzolkhifli, Hamidah Ibrahim, **Fatimah Sidi**, Lilly Suriani Affendey, Siti Nurulain Mohd Rum, and Ali Amer Alwan. 2019. *A Skyline Query Processing Approach over Interval Uncertain Data Stream with K-Means Clustering Technique*. In Proceedings of the 10th International Conference on Advances in Databases, Knowledge, and Data Applications (DBKDA 2019), (Athens, Greece), 2 – 6 Jun, pp 51-56.

19. Mohd Izham Mohd Jaya, **Fatimah Sidi,** Lilly Suriani Affendey, Iskandar Ishak and Marzanah A. Jabar. 2019. *Evaluation of Missing Values Imputation Methods Towards the Effectiveness of Asset Valuation Prediction Model*. In Proceedings of the International Symposium on ICT Management and Administration (ISICTMA2019), (Putrajaya, Malaysia), 31 July – 2 Aug, pp 11-15.

20. Sharmila Mat Yusof, **Fatimah Sidi**, Lilly Suriani Affendy, Hamidah Ibrahim, Iskandar Ishak and Marzanah A. Jabar. 2019. *Versioning Approach for Data Warehouse Schema*. In Proceedings of the International Symposium on ICT Management and Administration (ISICTMA2019), (Putrajaya, Malaysia), 31 July – 2 Aug, pp 16-21.

21. Muhd Amirul Hakim Zailan, Iskandar Ishak, **Fatimah Sidi**, Thinagaran Perumal. 2019. *Approaches in Sensor-Based System Data Modelling: A Survey*. In Proceedings of the International Symposium on ICT Management and Administration (ISICTMA2019), (Putrajaya, Malaysia), 31 July – 2 Aug, pp 22-27.

22. Lilly Suriani Affendy, Norwati Mustapha, Iskandar Ishak, **Fatimah Sidi** and Nurul Hayat Hamdan. 2019. *Visual Analytics for Governance and Informed Decision Making: An Overview for Land Use Land Cover Change Management*. In Proceedings of the International Symposium on ICT Management and Administration (ISICTMA2019), (Putrajaya, Malaysia), 31 July – 2 Aug, pp pp 28-32.

23. Ashvini Priya Rajangeran, Puvanah Sandra Sekaran, **Fatimah Sidi**, Mohd Faizal Daud and Rizal Razak. 2019. *A Study on Physical Access Control Using QR Code as Virtual Identification System for Door Access Control*. In Proceedings of the International Symposium on ICT Management and Administration (ISICTMA2019), (Putrajaya, Malaysia), 31 July – 2 Aug, pp 38-45.

24. Yunus Parvej Faniband, Aslam Nandyal, Iskandar Ishak, **Fatimah Sidi**, Marzanah A. Jabar. 2019. *An Approach to Secure EPUB Ebook Content*. In Proceedings of the International Symposium on ICT Management and Administration (ISICTMA2019), (Putrajaya, Malaysia), 31 July – 2 Aug, pp 46-50.

25. Normala Che Eembi, Iskandar Ishak, **Fatimah Sidi** and Lilly Suriani Affendy. 2019. *SVM-Based Approach for Detecting Misleading Online News Article*. In Proceedings of the International Symposium on ICT Management and Administration (ISICTMA2019), (Putrajaya, Malaysia), 31 July – 2 Aug, pp 51-54.

26. Umar Ali Bukar, Marzanah A. Jabar and **Fatimah Sidi**. 2019. *Crisis Informatics in Smart Campus: Opportunities, Challenges, and Future Directions*. In Proceedings of the International Symposium on ICT Management and Administration (ISICTMA2019), (Putrajaya, Malaysia), 31 July – 2 Aug, pp 65-68.

27. Kartini Mohamed, **Fatimah Sidi**, Marzanah A. Jabar and Iskandar Ishak. 2019. *Watermark Blending Technique for Securing User Authentication Data in Mobile Application Systems*. In Proceedings of the International Symposium on ICT Management and Administration (ISICTMA2019), (Putrajaya, Malaysia), 31 July – 2 Aug, pp 74-78.

2018

28. Nurul Husna Mohd Saad, Hamidah Ibrahim, Nur Izura Udzir, **Fatimah Sidi**, Razali Yaakob. 2018. *Non-Index based Skyline Analysis on High Dimensional Data with Uncertain Dimensions*. In Proceedings of the 13th International Baltic Conference on Databases and Information Systems, (Trakai, Lithuania), 1-4 July, pp 272-286.

29. Ghazaleh Babanejad Dehaki, Hamidah Ibrahim, Nur Izura Udzir, **Fatimah Sidi**, Ali Amer Alwan. 2018. *Efficient Skyline Processing Algorithm over Dynamic and Incomplete Database*. In Proceedings of the 20th International Conference on Information Integration and Web-based Applications & Services (iiWAS2018), (Yogyakarta, Indonesia), 19-21 Nov, pp 188-197.

30. Ghoncheh Babanejad Dehaki, Hamidah Ibrahim, Nur Izura Udzir, **Fatimah Sidi**, Ali Amer Alwan. 2018. *A Framework for Processing Skyline Queries for a Group of Mobile Users*. In Proceedings of the 20th International Conference on Information Integration and Web-

based Applications & Services (iiWAS2018), (Yogyakarta, Indonesia), 19-21 Nov, pp 331-337.

2017

31. **Fatimah Sidi**, Maslina Daud, Sabariah Ahmad, Naqliyah Zainuddin, Syafiqa Anneisa Abdullah, Marzanah A. Jabar, Lilly Suriani Affendey, Iskandar Ishak, Nurfadhlina Mohd Sharef, Maslina Zolkepli, Fatin Nur Majdina Nordin, Hashimah Amat Sejani, Saiful Ramadzan Hairani. 2017. Towards an Enhancement of Organizational Information Security through Threat Factor Profiling (TFP) Model. *In Journal of Physics: Conference Series*, 892(1) 012011. ISSN: 1742-6588, DOI: 10.1088/1742-6596/892/1/012011 [Scopus]

32. Siti Nuradilah Azman, Iskandar Ishak, Nurfadhlina Mohd Sharef and **Fatimah Sidi**. 2017. Towards an Enhanced Aspect-based Contradiction Detection Approach for Online Review Content. *In Journal of Physics: Conference Series*, 892(1) 012006. ISSN: 1742-6588, DOI: 10.1088/1742-6596/892/1/012006 [Scopus]

33. M. Izham Jaya, **Fatimah Sidi,** Sharmila Mat Yusof, Lilly Suriani Affendey, Iskandar Ishak and Marzanah A. Jabar. 2017. Replacing Missing Values using Trustworthy Data Values from Web Data Sources. *In Journal of Physics: Conference Series*, 892(1) 012009: 1-11. ISSN: 1742-6588, DOI: 10.1088/1742-6596/892/1/012009 [Scopus]

34. **Fatimah Sidi,** Marzanah A.Jabar, Lilly Suriani Affendey, Iskandar Ishak, Nurfadhlina Mohd Sharef, Maslina Zolkepli, Tan Ming Ming, Muhammad Faidhi Abd Mokthi, Maslina Daud, Naqliyah Zainuddin, Rafidah Abdul Hamid. 2017. *A Comparative Analysis Study on Information Security Threat Models: A Propose for Threat Factor Profiling*. In Proceedings of the International Conference on Innovation in Computer Science and Engineering (ICiCSE) 2017, (UPM Serdang, Malaysia), 7-8 Feb, pp 1-9.

35. 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*. In Proceedings of the 6th International Conference on Computer Science and Computational Mathematics (ICCSCM) 2017, (Langkawi, Malaysia), 4-5 May, pp 162-168.

36. **Fatimah Sidi,** Marzanah A. Jabar, Lilly Suriani Affendey, Iskandar Ishak, Nurfadhlina Mohd Sharef, Maslina Zolkepli, Fatin Nur Majdina Nordin, Muhammad Faidhi Abd Mokthi, Hashimah Amat Sejani, Saiful Ramadzan Hairani, Maslina Daud, Naqliyah Zainuddin, Rafidah Abdul Hamid. 2017. *An Integrated Information Security Threat Factor Profiling Model*. In Proceedings of the 6th International Conference on Computer Science and Computational Mathematics (ICCSCM) 2017, (Langkawi, Malaysia), 4-5 May, pp 199-203.

37. **Fatimah Sidi,** Iskandar Ishak, Lilly Suriani Affendey. 2017. *Data Visualization for Agricultural Data: Benefits and Challenges*. In Proceedings of the International Conference on Big Data Applications in Agriculture (ICBAA2017), (UPM Serdang, Malaysia), 5-6 Dec, pp 34-37.

38. Normala Che Eembi @ Jamil, Iskandar Ishak, **Fatimah Sidi**. 2017. *Deception detection approach for data veracity in online digital news: Headlines vs contents*. In Proceeding of the International Conference on Applied Science and Technology 2017 (ICAST'17), (Kedah, Malaysia), 3–5 April, pp. 020036-1 - 020036-6.

39. Ghazaleh Babanejad, Hamidah Ibrahim, Nur Izura Udzir, **Fatimah Sidi**, Ali Amer Alwan. 2017. *Deriving skyline points over dynamic and incomplete* databases in Zulikha, J. & N. H. Zakaria (Eds.), Proceedings of the 6thInternational Conference of Computing & Informatic (ICOCI2017), (Kuala Lumpur, Malaysia), 25-27 April, pp 77-83. Sintok: School of Computing Universiti Utara Malaysia.

40. Siti Nuradilah Azman, Iskandar Ishak, Nurfadhlina Mohd Sharef, **Fatimah Sidi**. 2017. *Detecting Contradictions in Online Review Contents based on Numerical Mismatch*. In Proceedings of the 6th International Conference on Computer Science and Computational Mathematics (ICCSCM) 2017, (Langkawi, Malaysia), 4-5 May, pp 127-132.

41. Yunus Parvej Faniband, Iskandar Ishak, **Fatimah Sidi**, Marzanah A. Jabar, 2017. *Enhancing Mobile Backend as a Service Framework to Support Synchronization of Large Object*. In the ACM International Conference Proceeding Series. ISBN: 978-145036351-8. https://doi.org/10.1145/3176653.3176719, pp 383-387. Paper presented at the Proceedings of the International Conference on Information Technology 2017 (ICIT 2017), (Nanyang Technological University, Singapore), 27-29 Dec.

42. Iskandar Ishak, Nur Shahirah Abdul Rahman, Hazlina Hamdan, **Fatimah Sidi**. 2017. *Merit2U: An IoT-based Merit Point Management System for University Students' Hostel Application*. In the Proceedings of the International Symposium on Consumer Electronics, ISCE. ISBN: 978-153865433-0. 4 May 2018, pp 76-77. Paper presented at the 21st International Symposium on Consumer Electronics (ISCE) 2017, (UPM Serdang, Kuala Lumpur, Malaysia), 14-15 Nov.

43. Teo Poh Kuang, Hamidah Ibrahim, **Fatimah Sidi**, Nur Izura Udzi. 2017. *Modality Conflict Analysis in XACML Policy Evaluation.* In Zulikha, J. & N. H. Zakaria (Eds.), Proceedings of the 6th International Conference of Computing & Informatic (ICOCI2017), (Kuala Lumpur, Malaysia), 25-27April*, pp 708-713.* Sintok: School of Computing Universiti Utara Malaysia.

2016

44. Sharmila Mat Yusof, **Fatimah Sidi**, Hamidah Ibrahim, Lilly Suriani Affendey. 2016. *A Study of Multidimensional Modeling Approaches for Data Warehouse*. In Proceedings of the International Conference on Applied Science and Technology 2016 (ICAST'16), (Kedah, Malaysia), 11-13 April, 1761(6), pp. 1-6.

45. **Fatimah Sidi**, Iskandar Ishak, Lilly Suriani Affendey, Casmir Onyeazor. 2016. *Identifying Real-time Sentiment on Oil Palm Industry Based on Social Media*. In Proceedings of the 7th International Agriculture Congress 2016, (Bangi, Malaysia), 4-6 Oct, pp. 422-424.

46. Rajina R. Mohameda, Iskandar Ishak, Mohd Syafiq Hamzah, **Fatimah Sidi**, Thinagaran Perumal, Lilly Suriani Affendey, Hamidah Ibrahim. 2016. *Implementation of Residence Automatic Plant Water Irrigation using Embedded Soil Moisture Sensor for Multifarious Soil*. In Proceedings of the the 3rd International Conference on Robotic Automation System (ICORAS 2016), (Kemaman, Malaysia), 6-7 Aug, pp. 59-63.

47. Rajina R. Mohameda, Iskandar Ishak, Mohd Syafiq Hamzah, **Fatimah Sidi**, Thinagaran Perumal, Lilly Suriani Affendey, Hamidah Ibrahim. 2016. *Implementation of Smart Home Safety System*. In Proceedings of the 2nd International Conference on Information Technology 2016, (Kemaman, Malaysia), 6-7 Aug, pp. 85-90.

48. Nurul Husna Mohd Saad, Hamidah Ibrahim, **Fatimah Sidi**, Razali Yaakob, Ali Amer Alwan. 2016. *Reporting Skyline on Uncertain Dimension with Query Intervals*. In Proceedings of the 3rd International Conference on Communication and Computer Engineering (ICOCOE), (Bandung, Indonesia), 15-17 Mac.

2015

49. Iskandar Ishak, Normala Che Eembi @ Jamil, **Fatimah Sidi**, Lilly Suriani Affendey. 2015. A Systematic Review on the Profiling of Digital News Portal for Big Data Veracity, *In Journal Procedia Computer Science*, 72: 390-397. ISSN: 1877-0509, http://www.sciencedirect.com/science/article/pii/S1877050915036157, DOI: 10.1016/j.procs.2015.12.154 [Scopus]

50. Tan Ming Ming, Marzanah A. Jabar, Koh Tieng Wei, **Fatimah Sidi**. 2015. *A Preliminary Study of Personality Traits and Their Influence on Software Piracy*. In Proceeding of the 9th Malaysian Software Engineering Conference (MySec2015), (Kuala Lumpur, Malaysia), 16-17 Dec, pp. 252.

51. Kartini Mohamed, **Fatimah Sidi**, Marzanah A. Jabar, Iskandar Ishak. 2015. *Enhancing the Strength of User's Authentication using Multifactor Approach for Use in Mobile Application System*. In Proceeding of the 3rd International Symposium on Applied Engineering and Sciences (SAES 2015), ISBN: 978-967-960-402-3, (UPM Serdang, Selangor), 23-24 November, pp. 96-98.

52. Siti Nuradilah Azman, Iskandar Ishak, Nurfadhlina Mohd Sharef, **Fatimah Sidi**, Lilly Suriani Affendey. 2015. *Enhancing Truth Discovery in Document Context Finding using NER-Based Veracity Evaluator Framework*. In Proceeding of the 3rd International Symposium on Applied Engineering and Sciences (SAES 2015), ISBN: 978-967-960-402-3, (UPM Serdang, Selangor), 23-24 November, pp. 99-100.

53. Normala Che Eembi @ Jamil, Iskandar Ishak, **Fatimah Sidi**, Lily Suriani Affendey. 2015. *Profiling Digital News Portal Based on Manipulative Writing using Fuzzy Logic*. In Proceeding of the 3rd International Symposium on Applied Engineering and Sciences (SAES 2015), ISBN: 978-967-960-402-3, (UPM Serdang, Selangor), 23-24 November, pp. 101-102.

54. Saiful Ramadzan Hairani, **Fatimah Sidi**, OOi Seng Tatt, Iskandar Ishak, Lilly Suriani Affendy, Norida Mazlan. 2015. *Development of Decision Support System to enhance the decision of Rice Presticide Management in Paddy Cultivation*. In Proceeding of the 3rd International Symposium on Applied Engineering and Sciences (SAES 2015), ISBN: 978-967-960-402-3, (UPM Serdang, Selangor), 23-24 November, pp. 103-105.

55. Cecilia Adrian, **Fatimah Sidi**, Lilly Suriani Affendey, Iskandar Ishak. 2015. *A System Literature Review on Evolution of Big Data Analytics Application*. In Proceeding of the 3rd International Symposium on Applied Engineering and Sciences (SAES 2015), ISBN: 978-967-960-402-3, (UPM Serdang, Selangor), 23-24 November, pp. 106-107.

56. Mohd Izham Mohd Jaya, **Fatimah Sidi**, Lilly Suriani Affendey, Iskandar Ishak, Marzanah A. Jabar. 2015. *Towards Improving Data Quality Using Ontology Application Approach*. In Proceeding of the 3rd International Symposium on Applied Engineering and Sciences (SAES 2015), ISBN: 978-967-960-402-3, (UPM Serdang, Selangor), 23-24 November, pp. 108-110.

57. Hasan Ganny Hanif Francis, **Fatimah Sidi**, Samsu Bahari Nonchi, Iskandar Ishak, Lilly Suriani Affendey. 2015. *A New Readiness Model to Enhance the Assessment of Organization Readiness for Big Data implementation*. In Proceeding of the 3rd International Symposium on Applied Engineering and Sciences (SAES 2015), ISBN: 978-967-960-402-3, (UPM Serdang, Selangor), 23-24 November, pp. 111-113.

58. Samsu Bahari Nonchi, **Fatimah Sidi**, Iskandar Ishak, Lilly Suriani Affendey, Hasan Ganny Hanif Francis, Sirajuddin Hasan. 2015. *Data Sharing Policies and Procedures Model to Improve Public Services Delivery in Local Government*. In Proceeding of the 3rd International Symposium on Applied Engineering and Sciences (SAES 2015), ISBN: 978-967-960-402-3, (UPM Serdang, Selangor), 23-24 November, pp. 114-115.

59. Ghazaleh Babanejad, Hamidah Ibrahim, Nur Izura Udzir, **Fatimah Sidi**, Ghoncheh Babanejad, Ali A. Alwan. 2015. *Identifying Skylines in Dynamic Incomplete Databases*. In Proceedings of the 9th International Conference on Computer Engineering and Applications (CEA 15), (UPM Serdang, Selangor), 22-24 Feb, pp. 231-236.

2014

60. **Fatimah Sidi**, Mohd Izham Mohd Jaya, Lilly Suriani Affendey, Iskandar Ishak, Marzanah A. Jabar, Abu Bakar Md Sultan, Arifin Abdu and Mohd. Khanif Yusop. 2014. *Big Data Challenges in Malaysian Oil Palm Industry*. In Proceeding of the 2nd International Symposium on Applied Engineering and Sciences (SAES 2014), (Fukuoka, Japan), 20-21 December, pp. 4-5.

61. Saiful Ramadzan Hairani, P. P. Tan, Lilly Suriani Affendey, Dzolkhifli Omar and **Fatimah Sidi**. 2014. *Red Palm Weevil Population Fluctuation Visualization System*. Poster presented at the 2nd International Symposium on Applied Engineering and Sciences (SAES 2014), (Fukuoka, Japan), 20-21 December, pp. 176-177.

62. Siti Nuradilah Azman, Lilly Suriani Affendey, Muhammad Syazwan Shohaimi, Iskandar Ishak, **Fatimah Sidi**, and Paiman Bawon. 2014. *Mobile Plant Classification based on Leaf Shape*. Poster presented at the 2nd International Symposium on Applied Engineering and Sciences (SAES 2014), (Fukuoka, Japan), 20-21 December, pp. 178-179.

63. Muhammad Syazwan Shohaimi, Iskandar Ishak, **Fatimah Sidi**, Lilly Suriani Affendey, Amir Syamimi Hashim and Paiman Bawon. 2014. *Improving Touring Experience in Urban Forest using Mobile Technology*. Poster presented at the 2nd International Symposium on Applied Engineering and Sciences (SAES 2014), (Fukuoka, Japan), 20-21 December, pp. 180-181.

64. Mohd Izham Mohd Jaya, Lilly Suriani Affendey and **Fatimah Sidi**. 2014. *An Integrated Protein Databases Using Hadoop MapReduce Framework*. Poster presented at the 2nd International Symposium on Applied Engineering and Sciences (SAES 2014), (Fukuoka, Japan), 20-21 December, pp. 182-183.

65. Lilly Suriani Affendey, Iskandar Ishak, **Fatimah Sidi**, Saiful Ramadzan Hairani and Dzolkhifli Omar. 2014. *Red Palm Weevil Monitoring: Big Data Perspective and Challenges*. In Proceeding of the 2nd International Symposium on Applied Engineering and Sciences (SAES 2014), (Fukuoka, Japan), 20-21 December, pp. 252-253.

66. Iskandar Ishak, **Fatimah Sidi**, Lilly Suriani Affendey, Noridayu Mansor, Nitty Hirawaty Kamarulzaman, Koh Tieng Wei, Farrah Melissa Muharam, Azrina Kamaruddin, Marzanah A.Jabar, Md. Nasir Sulaiman, Norwati Mustapha, Rozi Nor Haizan Nor, Rahmita Wirza and Shyamala C.Doraisamy. 2014. *Oil Palm and Big Data: Managing Data on Upstream and Downstream Activities for Sustainable Oil Palm Industry*. In Proceeding of the 2nd International Symposium on Applied Engineering and Sciences (SAES 2014), (Fukuoka, Japan), 20-21 December, pp. 257-258.

67. Nurul Husna Mohd Saad, Hamidah Ibrahim, Ali Amer Alwan, Fatimah Sidi and Razali Yaakob. 2014. *A Framework for Evaluating Skyline Query over Uncertain Autonomous Databases*, In Proceeding of the International Conference of Computational Science (ICCS 2014), (Cairns, Australia) 10-12 June, pp. 1546-1556.

68. Marzanah A. Jabar, Niloofar Yousefi, Ramin Ahmadi, Mohammad Yaser Shafazand, and **Fatimah Sidi**. 2014. *An Effective Location - Based Information Filtering System on Mobile Devices,* In Proceeding of the Proceedings of The First International Conference on Soft Computing and Data Mining (SCDM-2014), (Universiti Tun Hussein Onn Malaysia, Johor, Malaysia) 16-18 June, pp. 409-418.

69. Iskandar Ishak, **Fatimah Sidi,** Lilly Suriani Affendey, Hamidah Ibrahim, Ali Mamat, Nitty Hirawaty Kamarulzaman and Farrah Melissa Muharam. 2014. *Big Data Analytic Application Framework for Malaysian Palm Oil Industry*, In Proceeding of the Malaysian National Conference on Databases (MaNCoD) 2014, (Serdang Selangor, Malaysia) 17 September, pp. 1-6.

70. Shamsiah Abu Muntalib, **Fatimah Sid**i, Marzanah A.Jabar and Iskandar Ishak. 2014. *Big Data Trend: Knowledge Discovery on the Unstructured Data*, In Proceeding of the Knowledge Management

International Conference (KMICe2014), (Langkawi, Malaysia) 12-15 August, pp. 338-342.

71. Mohd Adam Suhaimi, Zainatul Shima, Abdul Rahman Dahlan, Fatimah Sidi, Marzanah A. Jabar and Iskandar Ishak. 2014. *Enterprise Information Architecture of a Malaysian Institute of Higher Learning Management Information System: An experience*, In Proceeding of the Malaysian National Conference on Databases (MaNCoD) 2014, (Serdang Selangor, Malaysia) 17 September, pp. 56-59.

72. Siti Marhana Abd Razak, Norhasmah Sulaiman, Nik Aida Adibah Nik Abdul Aziz, **Fatimah Sidi** and Marzanah A. Jabar. 2014. *Factors that contribute to the no guarantee of receiving food among the receipient of financial beneficiaries of the Social Welfare Department in the area of Bangi and Kajang (Faktor yang menyumbang kepada tiada jaminan kedapatan makanan dalam kalangan penerima bantuan kewangan Jabatan Kebajikan Masyarakat di kawasan Bangi dan Kajang),* In Proceeding of the Emergence of New Consumers: Issues, Challenges @ Opportunities, The 18th National MACFEA Seminar, (Putrajaya, Malaysia) 27-28 August, pp. 213-216.

73. Ghazaleh Babanejad, Hamidah Ibrahim, Nur Izura Udzir, Fatimah Sidi and Ali A. Alwan. 2014. *Finding Skyline Points over Dynamic Incomplete Database*, In Proceeding of the Malaysian National Conference on Databases (MaNCoD) 2014, (Serdang Selangor, Malaysia) 17 September, pp. 60-64.

74. Teo Poh Kuang, Hamidah Ibrahim, **Fatimah Sidi**, Nur Izura Udzir. 2014. *Heterogeneity XACML Policy Evaluation*, In Proceeding of the Malaysian National Conference on Databases (MaNCoD) 2014, (Serdang Selangor, Malaysia) 17 September, pp. 22-27.

75. Asghar Darvishy, Hamidah Ibrahim, Fatimah Sidi and Aida Mustapha. 2014. *HYPNER a Framework for Hybrid Personalized News Recommender Systems*, In Proceeding of the Malaysian National Conference on Databases (MaNCoD) 2014, (Serdang Selangor, Malaysia) 17 September, pp. 33-39.

76. Shamsiah Abu Muntalib, **Fatimah Sidi**, Marzanah A. Jabar, Iskandar Ishak. 2014. *Knowledge Discovery in Unstructured Big Data*, In Proceeding of the Malaysian National Conference on Databases (MaNCoD) 2014, (Serdang Selangor, Malaysia) 17 September, pp. 50-54.

77. Sharmila Mat Yusof and Fatimah Sidi. 2014. *Relational Model vs. Dimensional Model-Further Experimentation on Understandability of the Two Schemas*, In Proceeding of the Malaysian National Conference on Databases (MaNCoD) 2014, (Serdang Selangor, Malaysia) 17 September, pp. 40-45.

78. Payam Hassany Shariat Panahy, **Fatimah Sidi**, Lilly Suriani Affendey and Marzanah A. Jabar. 2014. *The Impact of Data Quality Dimensions on Business Process Improvement*, In Proceeding of the World Congress on Information and Communication Technologies (WICT 2014), (Melaka, Malaysia) 8-11 December, pp. 70-73.

79. Lilly Suriani Affendey, Fereshteh Falah Chamasemani, Iskandar Ishak, **Fatimah Sidi**. 2014. *Video Concept Detection Using Hadoop MapReduce Framework*, In Proceeding of the Malaysian National

Conference on Databases (MaNCoD) 2014, (Serdang Selangor, Malaysia) 17 September, pp. 46-49.

80. Kartini Mohamed, Fatimah Sidi, Marzanah A. Jabar and Iskandar Ishak. 2014. *Watermarking Technique for Data Integrity Improvement in Wireless Data Transmission*, In Proceeding of the Malaysian National Conference on Databases (MaNCoD) 2014, (Serdang Selangor, Malaysia) 17 September, pp. 13-17.

2013

81. Iskandar Ishak, Fatimah Sidi, Lilly Suriani Affendey, Nor Fazlida Mohd Sani, Amir Syamimi Hamzah and Paiman Bawon. 2013. *Mobile Plant Tagging System for Urban Forest Eco-Tourism Using QR Code*, In Proceeding of the International Conference on Advanced Computer Science Applications and Technologies (ACSAT'13), (Kuching, Malaysia) 22–24 December, pp. 37-41.

82. Lilly Suriani Affendey, Iskandar Ishak, **Fatimah Sidi**, Nor Fazlida Mohd Sani, Hazlina Hamdan, Salmi Baharom and Masnida Hussin. 2013. *Assessment of Learning Outcomes Using Scoring Rubrics*, In Proceeding of the International Conference On Assessment For Higher Education Across Domains And Skills (AHEADS2013), (Kuala Lumpur, Malaysia) 17-19 Disember, pp. 105-113.

83. Kartini Mohamed, **Fatimah Sidi**, Marzanah A. Jabar and Iskandar Ishak. 2013. *A Novel Watermarking Technique in Data Transmission between QR Codes and Database*, In Proceeding of the IEEE Conference on Open Systems (ICOS 2013), (Kuching, Sarawak, Malaysia) 2–4 Disember, pp. 1-5

84. Nurul Husna Mohd Saad, Hamidah Ibrahim, **Fatimah Sidi**, Razali Yaakob. 2013. *A Framework for Processing Skyline Queries on Heterogeneous Data*, In Proceeding of the 7th Malaysian Software Engineering Conference, (Melaka, Malaysia) 20-21 November.

85. Sharmila Mat Yusof and **Fatimah Sidi**. 2013. *Is the Star Schema Really Better than Relational Schema? – Further Experimentation on Understandability of the Two Schemas*, In Proceeding of the International Conference on Computing, Mathematics and Statistics (ICMS 2013), (Penang, Malaysia) 28–29 November, pp. 261-277. [Best Paper Award]

86. **Fatimah Sidi**, Marzanah A. Jabar, Aida Mustapha, Nor Fazlida Mohd Sani, Iskandar Ishak, Siti Rozana Supian. 2013. *Measuring Computer Security Awareness on Internet Banking and Shopping for Internet Users*, In Proceeding of the 10th Asia Pacific Internet Research Alliance Conference, (Kuala Lumpur, Malaysia) 24-25 September.

87. Marzanah A. Jabar, Niloofar Youse, Ramin Ahmadi, **Fatimah Sidi**, and Rozi Nor Haizan Nor. 2013. *A Web-Based Decision Support System for Strategic Dairy Farm Management*, In Proceeding of the International Conference on Software Engineering & Computer Systems, (Pahang, Malaysia) 20-22 August, pp. 1-10.

88. Marzanah A. Jabar, Ramin Ahmadi, Mohammad Yaser Shafazand, Abdul Azim Abdul Ghani, **Fatimah Sidi** and Sa'adah Hasan. 2013. *An Automated Method for Requirement Determination and Structuring Based on 5W1H Elements*, In Proceeding of the IEEE 4th Control and

System Graduate Research Colloquium, (Shah Alam, Malaysia) 19-20 August, pp. 32-37.

89. Marzanah A. Jabar, Niloofar Youse, Ramin Ahmadi, **Fatimah Sidi** and Rozi Nor Haizan Nor. 2013. *Design and Implementation of an Advanced Web-based Feeding Decision Support System*, In Proceeding of the Second Intl. Conf. on Advances in Computer and Information Technology (ACIT2013), (Kuala Lumpur, Malaysia) 4-5 May, pp. 70-74.

90. Ali A. Alwan, Hamidah Ibrahim, Nur Izura Udzir and **Fatimah Sidi.** 2013. *Estimating Missing Values of Skylines in Incomplete Database*, In Proceeding of the Second International Conference on Digital Enterprise and Information Systems (DEIS 2013), (Kuala Lumpur, Malaysia) 4-6 March, pp. 220-229.

91. Teo Poh Kuang, Hamidah Ibrahim, Nur Izura Udzir and **Fatimah Sidi**. 2013. *Heterogeneity XACML Policy Evaluation Engine*, In Proceeding of the Second International Conference on Digital Enterprise and Information Systems (DEIS 2013), (Kuala Lumpur, Malaysia) 4-6 March, pp. 230-238.

2012

92. Ali A. Alwan, Hamidah Ibrahim, Tan C. Yip, Nur Izura Udzir, **Fatimah Sidi**. 2012. A Performance Evaluation of Preference Evaluation Techniques in Real High Dimensional Database. *In Journal of Procedia Computer Science*, 10: 894-901. DOI: 10.1016/j.procs.2012.06.118. [Scopus]

93. Masrah Azrifah Azmi Murad, **Fatimah Sidi**, Marzanah A. Jabar, Suhaini Kadiman and Rahmita Wirza. 2012. *Integration of Heterogeneous Databases for Medical Experts*, In Proceeding of the International Conference on Advanced Computer Science Applications and Technologies (ACSAT'12), (Kuala Lumpur, Malaysia) 26–28 November, pp. 1-4.

94. Nurul Husna Mohd Saad, Hamidah Ibrahim, **Fatimah Sidi** and Razali Yaakob. 2012. Skyline Query Processing on Heterogeneous Data a Conceptual Model. In oceedings of the International Conference on Data Technologies and Applications (DATA 2012), (Rome, Italy) 25-27 Jul, pp. 153-156. [Scopus]

95. **Fatimah Sidi**, Abdullah Ramli, Marzanah A. Jabar, Lilly Suriani Affendey, Aida Mustapha and Hamidah Ibrahim. 2012. *Data Quality Comparative Model for Data Warehouse*. In Proceedings of the International Conference on Information Retrieval and Knowledge Management 2012 (CAMP'12), (Kuala Lumpur, Malaysia) 13-15 March 2012, pp. 268-272. DOI: 10.1109/InfRKM.2012.6204987. [Scopus, IEEE]

96. **Fatimah Sidi**, Payam Hassany Shariat Panahy, Lilly Suriani Affendey, Marzanah A. Jabar, Hamidah Ibrahim. 2012. *Data Quality: A Survey of Data Quality Dimensions*. In Proceedings of the International Conference on Information Retrieval and Knowledge Management 2012 (CAMP'12), (Kuala Lumpur, Malaysia) 13-15 March, pp. 300-304. DOI: 10.1109/InfRKM.2012.6204995. [Scopus, IEEE]

97. Marzanah A. Jabar, Asyraf Azizan, **Fatimah Sidi**, Abdul Azim Abd Ghani. 2012. *Software Requirement Analysis Template With Automation Aided System*. In Proceedings of the International Conference on Information Retrieval and Knowledge Management 2012 (CAMP'12), (Kuala Lumpur, Malaysia) 13-15 March, pp. 235-239. DOI: 10.1109/InfRKM.2012.6205008. [Scopus, IEEE]

98. Marzanah A. Jabar, Chee-Yeong Cheah, **Fatimah Sidi**. 2012. *The Effect of Organizational Justice and Social Interdependence on Knowledge Sharing*. In Proceedings of the International Conference on Information Retrieval and Knowledge Management 2012 (CAMP'12), (Kuala Lumpur, Malaysia) 13-15 March, pp. 64-68. DOI: 10.1109/InfRKM.2012.6205037. [Scopus, IEEE]

2011

99. Lilly Suriani Affendey, **Fatimah Sidi,** Zaiton Muda. 2011. *Assessment of Learning Outcome: An Experience with a Database Application Development Course.* In Proceedings of the International Conference on Engineering Education (ICEE), Madinah, Kingdom of Saudi Arabia, 25-27 December, pp 169-174.

100. Mohammadreza Ektefa, **Fatimah Sidi**, Hamidah Ibrahim, Marzanah A. Jabar, Sara Memar Kauchebagh and Abdullah Ramli. 2011. *A Threshold-based Similarity Measure for Duplication Detection*. In Proceedings of the IEEE Conference on Open Systems (ICOS2011), (Langkawi, Malaysia) 25-28 Sept, pp. 37-41. [Scopus, IEEE]

101. Ali Amer Alwan, Hamidah Ibrahim, Tan Chik Yip, **Fatimah Sidi** and Nur Izura Udzir. 2011. *Performance Evaluation of Preference Evaluation Techniques.* In Proceedings of the Third International Conference on Network Digital Technologies (NDT 2011), (Macau, China) 11-13 July, pp. 212-223.

102. Ali Amer Alwan, Hamidah Ibrahim, Nur Izura Udzir and **Fatimah Sidi**. 2011. *Skyline Queries over Incomplete Multidimensional Database.* In Proceedings of the 3rd International Conference on Computing and Informatics (ICOCI), (Bandung, Indonesia) 8-9 Jun.

103. Teo Poh Kuang, Hamidah Ibrahim, **Fatimah Sidi** and Nur Izura Udzir. 2011. *Policy Inconsistencies Detection Based on RBAC Model in Cross-Organization Collaboration*. In Proceedings of the 3rd International Conference on Computing and Informatics (ICOCI), (Bandung, Indonesia) 8-9 Jun.

104. **Fatimah Sidi** and Marzanah A. Jabar. 2011. *Data Quality Dimension in Data Warehouse*. In Proceedings of the International Training and Seminars on Mathematics Samarkand (ITSM 2011), (Samarkand, Uzbekistan) 3-5 Jun, pp. 22-23.

105. Marzanah A. Jabar and **Fatimah Sidi**. 2011. *Software Requirement Analysis Template With Automation Aided System*. In Proceedings of the International Training and Seminars on Mathematics Samarkand (ITSM 2011), (Samarkand, Uzbekistan) 3-5 Jun, pp. 13-15.

2010

106. Ektefa, M., Sidi, **F**., Ibrahim, H. and Jabar, M. A. 2010. *Applying Data Mining Methods in Record Linkage*, In Proceeding of the International Conference on Intelligent Networking and Computing (ICINC 2010), (Kuala Lumpur, Malaysia) 26-28 Nov 2010, pp. 283-287.

107. **Sidi, F.** and Jabar, M. A. 2010. *Interrogative Knowledge Organization and Structuring from Unstructured Documents*. In Proceedings IBIMA 15th International Conference, (Cairo, Egypt), 6 – 7 Nov 2010, pp. 1028-1032.

108. Jabar, M. A. and **Sidi, F.** 2010. *Automated User and Competencies Profiling from Tacit Knowledge in Knowledge Management*. In Proceedings IBIMA 15th International Conference, (Cairo, Egypt), 6 – 7 Nov 2010.

109. **Sidi, F.**, Jabar, M. A., Selamat, M. H., Ghani, A. A. A., Sulaiman, M. N. and Baharom, S. 2010. Malay Interrogative Knowledge Corpus. In Proceedings Knowledge Management 5th International Conference (KMICe2010), (Kuala Terengganu, Malaysia), 25-27 May, pp. 685-690.

110. Jabar, M. A., **Sidi, F.,** Selamat, M. H., Ghani, A. A. A., Ibrahim, H. and Baharom, S. 2010. Capturing Tacit Knowledge for Assessing Employees' Competency and Productivity. In Proceedings Knowledge Management 5th International Conference (KMICe2010), (Kuala Terengganu, Malaysia), 25-27 May, pp. 29-33.

111. Ektefa, M., Memar, S., **Sidi, F.** and Affendey, L. S. 2010. Intrusion Detection Using Data Mining Techniques. In Proceedings of the International Conference on Information Retrieval and Knowledge Management 2010 (CAMP'10), (Shah Alam, Selangor), 17-18 March, pp. 201-203. DOI: 10.1109/INFRKM.2010.5466919. [Scopus, IEEE]

2009

112. **Sidi, F.**, Jabar, M. A. and Selamat M. H. 2009. *Developing Retrieval Interrogative Ontology Analysis Application for Learning.* In Proceedings National Seminar in Technology and Innovation for Teaching and Learning (SKTIP09), (Putrajaya, Malaysia), 28-29 April, pp. 102-111.

113. Jabar, M. A., **Sidi, F.** and Selamat M. H. 2009. *Concept Mapping for Knowledge Management in Developing an e-Learning Application.* In Proceedings National Seminar in Technology and Innovation for Teaching and Learning (SKTIP09), (Putrajaya, Malaysia), 28-29 April, pp. 112-120.

2006

114. **Sidi, F.,** Jabar, M. A., Selamat, M. H., Ghani, A. A. A., Sulaiman, M. N., Abdullah, M. T. and Yusof, M. M. 2006. *The Conceptual Transformation of Unstructured Documents.* In Proceedings of the Regional Computer Science Postgraduate Conference 2006 (ReCSPC06), (Penang, Malaysia), 27-28 June, pp. 171-174.

115. Jabar, M. A., Selamat, M. H. and **Sidi, F.** 2006. *KEPSNet: A Framework in Managing Group Knowledge and Competencies.* In Proceedings of the Regional Computer Science Postgraduate Conference 2006 (ReCSPC06), (Penang, Malaysia), 27-28 June, pp. 175-178.

2005

116. Jabar, M. A., Selamat, M. H., **Sidi, F.**, K.Y., S., Rahman, A. R. A., Jaafar, M. F., Aziz, S. A. and Meseran, H. 2005. *Profiling Competencies and Managing Group Knowledge: An Intelligent Agent Based Knowledge Management Driven Development.* In Proceedings of the Brunei International Conference on Engineering and Technology (BICET 2005), (Brunei), 15-18 August, pp. 171-177.
117. **Sidi, F.,** Jabar, M. A., Selamat, M. H., Ghani, A. A. A., Sulaiman, M. N. and Yusuf, M. M. 2005. *Towards Establishing Transforming Unstructured Documents Framework for Knowledge Discovery.* In Proceedings of the International Conference on Knowledge Management (ICKM'05), (Putra World Centre, Kuala Lumpur, Malaysia), 7-9 July.
118. Jabar, M. A., Selamat, M. H., Yusof, M. and **Sidi, F**. 2005. *An Evaluation of an Agent Based Knowledge Management-Driven Methodology.* In Proceedings of the International Conference on Knowledge Management (ICKM'05), (Putra World Centre, Kuala Lumpur, Malaysia), 7-9 July.
119. Jabar, M. A., Selamat, M. H., **Sidi, F.,** Sharif K.Y., Rahman, A.R.A, Jaafar, M.F., Aziz, S.A. and Meseran, H. 2005. *An Intelligent Agent Based Knowledge Management Driven Development: A Case of an e-Learning application development.* In Proceedings of the International Symposium on e-Learning 2005 (ISEL2005), (Kota Kinabalu Sabah, Malaysia), 25-26 July.

2004

120. **Sidi, F**., Selamat, M. H., Ghani, A. A. A. and Sulaiman, M. N. 2004. KDD Process In Knowledge Management. In Proceedings of the Knowledge Management 2nd International Conference and Exhibition (KMICe2004), (Penang, Malaysia), 13-15 February.
121. Jabar, M. A., Selamat, M. H., Ghani, A. A. A., **Sidi, F.,** and Aziz, S.A. 2004. *The E-Learning System Development Project: A Case of Knowledge Sharing And Competency Profiling.* In Proceedings of the *Persidangan Pembelajaran Kebangsaan 2004,* (Pulau Pinang, Malaysia), 13-15 February.
122. **Fatimah Sidi,** Mohd. Hasan Selamat, Abdul Azim Abdul Ghani, Md. Nasir Sulaiman, Marzanah A. Jabar and Mokhtar Mohd. Yusof. 2004. *Text Analysis for Knowledge Discovery.* Poster presented at the Information Technology Colloquium (INTEC 2004), (UPM Serdang, Selangor, Malaysia), 1 June.
123. Marzanah A. Jabar, **Fatimah Sidi,** Mohd. Hasan Selamat, Abdul Azim Abdul Ghani, Hamidah Ibrahim, and Mokhtar Mohd. Yusof. 2004. *Qualitative Research: an Investigation into Methods and*

Concepts of Qualitative Research in Information System Research. In Proceedings of the Information Technology Colloquium (INTEC) 2004, (UPM Serdang, Selangor, Malaysia), 1 June.

2002

124. Abdullah, R., Selamat, M. H., Shahibudin, S., Alias, R. A. and **Sidi, F.** 2002. *Artificial Intelligent Issues in Developing Knowledge Management System.* In Proceedings of the Second National Conference on Cognitive Science (CSC), (Kuching, Sarawak, Malaysia), 21-23 October, pp. 133-140.

III. BOOKS

1. Sidek Ab Aziz, Wan Zuhainis Saad, Marzanah A. Jabar, **Fatimah Sidi**, Khaironi Yatim Sharif and Koh Tieng Wei. 2014. *Aplikasi Praktikal Web 2.0 untuk Pembelajaran – Pengajaran (Practical Application Web 2.0 for Learning – Teaching)*. Putrajaya: MHP Publishers, ISBN: 978-9839-972-12-2.
2. Sidek Ab Aziz, Marzanah A. Jabar, **Fatimah Sidi**, Wan Zuhainis Saad, Khaironi Yatim Sharif and Koh Tieng Wei. 2013. *Aplikasi Praktikal Desktop Untuk Pembelajaran-Pengajaran (Desktop Practical Application for Learning – Teaching)*. Seri Kembangan: MHP Publishers, ISBN: 978-9839-970-01-2.
3. **Fatimah Sidi**, Marzanah A. Jabar, Goh Yen Lee and Yeoh Sze Ling. 2011. *System Development Document Series e-Counseling System*. Serdang: UPM Press, ISBN: 978-976-960-303-3.
4. **Fatimah Sidi**, Marzanah A. Jabar and Siti Rozana Supian. 2011. *System Development Document Series Sistem Ilmu Sumber Manusia (Human Resource Knowledge System)*. Serdang: UPM Press, ISBN: 978-967-960-302-6.
5. Marzanah A. Jabar, **Fatimah Sidi**, Nadia Shahirah Mohd Nor, Shamsiah Abu Muntalib and Amie Affriza Khalid. 2011. *System Development Document Series e-Perubatan (e-Medical) System*. Serdang: UPM Press, ISBN: 978-967-960-301-9.
6. Rusli Abdullah, Marzanah A. Jabar and Fatimah **Sidi**. 2011. *Approaches and Technologies in Teaching and Learning Environment*. Serdang: UPM Press, ISBN: 978-967-344-211-9.
7. **Fatimah Sidi**, Haliena Azhar, Norazman Misngan, Junainah Ismail & Muhamad Hafiz Baharuddin. 2011. *Malam Pesona Bintang V (Nights of Enchanting Stars V)*. Serdang: Kolej Kediaman Lima Belas UPM, ISBN: 978-967-344-241-6.
8. **Fatimah Sidi**, Haliena Azhar, Siti Ilyana Idura Jamil and Rozila Mohamad. 2011. *Semai Bakti Siswa Perkasa (Student's Strength by Serving Others)*. Serdang: Kolej Kediaman Lima Belas UPM, ISBN: 978-967-344-240-9.

IV. CHAPTER IN BOOKS

1. Nímatul Istiqomah, Nur Anita Yunikawati, Emma Yunika Puspasari, Marzanah A. Jabar, **Fatimah Sidi**, Wahyu Fitrianti (2024). Preparing Practical Learning Through the Development of Education for Sustainable Development, ESD EDU Simulator. In: Khamis, R., Buallay, A. (eds) Board Diversity and Corporate Governance. CSR, Sustainability, Ethics & Governance. Springer, Cham. https://doi.org/10.1007/978-3-031-53877-3_34
2. Nurul Husna Mohd Saad, Hamidah Ibrahim, **Fatimah Sidi**, Razali Yaakob. 2019. *Skyline Probabilities with Range Query on Uncertain Dimensions.* In Bhatia S., Tiwari S., Mishra K. & Trivedi M. (Eds.), Advances in Computer Communication and Computational Sciences. Advances in Intelligent Systems and Computing, vol 924, (pp: 225-

242). Singapore: Springer Nature Singapore Pte Ltd, ISBN: 978-981-13-6860-8.

3. Nurul Husna Mohd Saad, Hamidah Ibrahim, **Fatimah Sidi**, Razali Yaakob, Ali Amer Alwan. 2016. *Computing Range Skyline Query on Uncertain Dimension.* In Hartmann S. & Ma H. (Eds.), Database and Expert Systems Applications. DEXA 2016. Lecture Notes in Computer Science, Vol 9828, (pp: 377-388). Switzerland: Springer International Publishing, ISBN: 978-3-319-44406-2.

4. **Fatimah Sidi**, Lilly Suriani Affendey, Hamidah Ibrahim, Nur Izura Udzir, Zaiton Muda, Aida Mustapha, Novia Admodisastro. 2015. *What Went Wrong?* In Rusli Abdullah & Nur Izura Udzir (Eds.), The Instructor's Manual for Case Study Development and Its Application. A Case of Computer Science Application, (pp: 37-40). Serdang: Universiti Putra Malaysia Press, ISBN: 978-967-344-481-6.

5. Marzanah A. Jabar, Niloofar Yousefi, Ramin Ahmadi, Mohammad Yaser Shafazand, **Fatimah Sidi**. 2014. *An Effective Location-Based Information Filtering System on Mobile Devices.* In Tutut Herawan, Rozaida Ghazali and Mustafa Mat Deris (Ed.), Recent Advances on Soft Computing and Data Mining, Advances in Intelligent Systems and Computing, 287: 409-418. Switzerland: Springer International Publishing. ISBN: 978-3-319-07691-1. DOI: 10.1007/978-3-319-07692-8_39.

6. **Fatimah Sidi**, Lilly Suriani Affendey, Hamidah Ibrahim, Nur Izura Udzir, Zaiton Muda, Aida Mustapha, Novia Admodisastro. 2014. *What Went Wrong?* In Rusli Abdullah (Ed.), A Case Study for Computer Science Application, (pp: 47-58). Serdang: Universiti Putra Malaysia Press, ISBN: 978-967-344-446-5.

7. Sidek Ab Aziz, Jowati Johari, Marzanah A. Jabar, **Fatimah Sidi**, Wan Zuhainis Saad, Habibah Abd Jalil, Khaironi Yatim Sharif, Koh Tieng Wei, Yap Wing Fen. 2014. *Acculturation.* In Kementerian Pendidikan (Ministry of Education) Malaysia (Ed.), E-Learning Guidelines for Malaysian HEIs, (pp: 65-69). Putrajaya: Jabatan Pengajian Tinggi (Higher Education Department), Ministry of Education Malaysia, ISBN: 978-967-5878-98-5.

8. **Fatimah Sidi,** Marzanah A. Jabar, Mohd Hasan Selamat. 2011. *Developing Retrieval Interrogative Ontology Analysis Application for Learning.* In Rusli Abdullah, Marzanah A. Jabar and Fatimah Sidi (Ed.), Approaches and Technologies in Teaching and Learning Environment, (pp: 59-69). Serdang: UPM Press, ISBN: 978-967-344-211-9.

9. Marzanah A. Jabar, **Fatimah Sidi**, Mohd Hasan Selamat. 2011. *Concept Mapping for Knowledge Management in Developing an e-Learning Application.* In Rusli Abdullah, Marzanah A. Jabar and Fatimah Sidi (Ed.), Approaches and Technologies in Teaching and Learning Environment, (pp: 70-78). Serdang: UPM Press, ISBN: 978-967-344-211-9.

V.   OTHER EQUIVALENT OUTCOMES (MONOGRAPH/ MODULE/ POPULAR WRITING & ARTICLE/ DESIGN ETC)

1. **Fatimah Sidi**, Nor Azlina Zainal Abidin, Saiful Ramadzan Hairani, Rizal Razak, Rosmi Othman and Hamidah Meseran. 2019. *Prosiding Persidangan Pentadbiran ICT 2019 (PPICT2019)*. Serdang: UPM Infocomm Development Centre, ISBN 978-967-960-458-0.
2. **Fatimah Sidi**, Iskandar Ishak, Lilly Suriani Affendey, Marzanah A. Jabar, Noritah Omar, Saiful Ramadzan Hairani, Rizal Razak and Nur Mahirah Afiqah Abdul Rahman. 2019. *Proceedings of the International Symposium on ICT Management and Administration (ISICTMA2019)*. Serdang: UPM Faculty of Computer Science and Information Technology, ISBN 978-9676-960-456-6.
3. Iskandar Ishak, **Fatimah Sidi**, Lilly Suriani Affendey, Marzanah A. Jabar, Nurfadhlina Mohd Sharef, Siti Nuradilah Azman, Mohd Izham Mohd Jaya and Saiful Ramadzan Hairani. 2015. *Proceedings of the 3rd International Symposium on Applied Engineering and Sciences 2015 (SAES2015)*. Serdang: UPM Faculty of Computer Science and Information Technology, ISBN 978-967-960-402-3.
4. Iskandar Ishak, **Fatimah Sidi**, Lilly Suriani Affendey, Hamidah Ibrahim, Marzanah A. Jabar, Syazwan Shohaimi, Saiful Ramadzan Hairani and Siti Nuradilah Azman. 2014. *Proceedings of Malaysian National Conference on Databases (MaNCoD) 2014*. Serdang: UPM Faculty of Computer Science and Information Technology, ISBN 978-983-2408-19-2.
5. **Fatimah Sidi**, Nor Fazlida Mohd. Sani and Razali Yaakob. 2010. *Module Microsoft Excel for Academia*. Serdang: CADe UPM.
6. **Fatimah Sidi**. 2010. *Popular Writing: Transformation of Extracted Knowledge in Malay Unstructured Documents into an Interrogative Structured Form*. Serdang: UPM.
7. Rusli Abdullah, Marzanah A. Jabar and **Fatimah Sidi**. 2008. *Groupwork Computing System Basic Manuscript*. Serdang: UPM.
8. Rusli Abdullah, Marzanah A. Jabar and **Fatimah Sidi**. 2008. *Information System Theory Manuscript.* Serdang: UPM.
9. Mohd Majid Konting, Hamidah Meseran, Mansor Ahmad, Mohd. Farid Jaafar, Zaidan Abdul Wahab, Marzanah A. Jabar, Mohd Kamil Yusof, **Fatimah Sidi,** Rusli Abdullah, Nor Azirawani Man. 2007. *Monograph Series on Teaching and Learning at Public Institutions of Higher Learning (IPTA) 1- Development of Human Capital.*   Serdang: UPM CADe, ISBN: 978-967-960-221-0.
10. Mohd Majid Konting, Hamidah Meseran, Mansor Ahmad, Mohd. Farid Jaafar, Zaidan Abdul Wahab, Marzanah A. Jabar, Mohd Kamil Yusof, **Fatimah Sidi,** Rusli Abdullah, Nor Azirawani Man. 2007. *Monograph Series on Teaching and Learning at Public Institutions of Higher Learning (IPTA) 2- Strategies and Methods in Teaching and Learning.* Serdang: UPM CADe, ISBN: 978-967-960-222-7.
11. Mohd Majid Konting, Hamidah Meseran, Mansor Ahmad, Mohd. Farid Jaafar, Zaidan Abdul Wahab, Marzanah A. Jabar, Mohd Kamil Yusof, **Fatimah Sidi,** Rusli Abdullah, Nor Azirawani Man. 2007. *Monograph Series on Teaching and Learning at Public Institutions of Higher*

Learning (IPTA) 3- Technology and Innovation in Teaching and Learning, Serdang: UPM CADe, ISBN: 978-967-960-223-4.

12. Mohd Majid Konting, Hamidah Meseran, Mansor Ahmad, Mohd. Farid Jaafar, Zaidan Abdul Wahab, Marzanah A. Jabar, Mohd Kamil Yusof, **Fatimah Sidi,** Rusli Abdullah, Nor Azirawani Man. 2007. *Monograph Series on Teaching and Learning at Public Institutions of Higher Learning (IPTA) 4- Policy and Management in Teaching and Learning.* Serdang: UPM CADe, ISBN: 978-967-960-224-1.

13. Mohd Majid Konting, Hamidah Meseran, Mansor Ahmad, Mohd. Farid Jaafar, Zaidan Abdul Wahab, Marzanah A. Jabar, Mohd Kamil Yusof, **Fatimah Sidi,** Rusli Abdullah, Nor Azirawani Man. 2007. *Monograph Series on Teaching and Learning at Public Institutions of Higher Learning (IPTA) 5- Current Issues in Higher Learning.* Serdang: UPM CADe, ISBN: 978-967-960-225-8.

14. Mohd Majid Konting, Hamidah Meseran, Mansor Ahmad, Mohd. Farid Jaafar, Zaidan Abdul Wahab, Marzanah A. Jabar, Mohd Kamil Yusof, **Fatimah Sidi,** Rusli Abdullah, Nor Azirawani Man. 2007. *Monograph on the Teaching and Learning at Higher Education Conference 2007 (CTLHE07)*, Kuala Lumpur, Malaysia, 2007.

VI. THESIS

1. "Transformation of Extracted Knowledge in Malay Unstructured Documents into an Interrogative Structured Form", **PhD in Management Information System,** Faculty of Computer Science and Information Technology, Universiti Putra Malaysia, Malaysia, 2008.
2. "Implementing of Data Warehouse in Financial Management System of Universiti Putra Malaysia", **Master in Computer Science,** Faculty of Computer Science and Information Technology, Universiti Putra Malaysia, Malaysia, 2002.
3. "Expert System in Durian Cultivation", **Bacelor in Computer Science,** Faculty of Computer Science and Information Technology, Universiti Putra Malaysia, Malaysia, 1988.

CONSULTATIONS WORKS

I.   CONSULTATION PROJECT(S)

Name of Consultant(s)	Name of Project/Program	Sponsor	Year	Status (Completed / Ongoing)
1. Fatimah Sidi, Marzanah A. Jabar and Nor Azlina Zainal Abidin	Khidmat dan Rundingan Secara Hand-Holding Membangunkan Pelan Strategik ICT MinDef 2021-2025	Kementerian Pertahanan Malaysia	06 Apr 2021 – 07 Apr 2021	Completed RM1600.00 (Cash) & RM3000 (In-kind) /consultant & services
2. Fatimah Sidi	Internet Of Things' Code for Cisco Room Kit Video Conferencing Devices	Kementerian Pertahanan Malaysia	01 Sept 2020 – 01 Aug 2025	Completed USD15000 (In-kind) /consultant & services
3. Fatimah Sidi, Marzanah A. Jabar and Nur Anita Yunikawatian	Does Lesson Study Work?: A Systematic Review on the Effects of Lesson Study On Teachers And Students	Universitas Negeri Malang (UM), Indonesia	18 Jan 2019 – 31 Dec 2019	Completed RM300.00 (Cash) & RM1700 (In-kind) /consultant & services
4. Fatimah Sidi, Marzanah A. Jabar, Lilly Suriani Affendey and Iskandar Ishak	National Integrated Information Security Threat Factor Profiling Model for ICAAS	CyberSecurity Malaysia (company No: 726630-U)	01 Mac 2016 – 31 May 2018	Completed RM300,000 /consultant & services
5. Marzanah A. Jabar, Fatimah Sidi and Iskandar Ishak	IIUM Data Dictionary and Enterprise Architecture Project	IIUM International Islamic University Malaysia	1 Apr 2014	Completed RM19,000/ consultant
6. Fatimah Sidi, Marzanah	Advisory Assignment on Social Protection Reform	World Bank, Economic Planning Unit	5 Mac 2014	Completed

Name of Consultant(s)	Name of Project/Program	Sponsor	Year	Status (Completed / Ongoing)
A. Jabar, Iskandar Ishak et al.		(EPU) & Geriatrics Institute, UPM		
7. Fatimah Sidi, Marzanah A. Jabar, Iskandar Ishak et al.	A Study on Integrated Sports Management System	(Ministry of Youth and Sports Malaysia & Sport Academic, UPM	26 June 2013	Completed RM5,000/ consultant
8. Fatimah Sidi and Marzanah A. Jabar	International Islamic University of Malaysia Data Integration Hub Upgrade Project	eNCoral Digital Solutions Sdn Bhd	3 Apr 2013	Completed
9. Fatimah Sidi and Marzanah A. Jabar	Enterprise System Integration at UIA	Araken Sdn Bhd	2013	Completed
10. Fatimah Sidi, Rahmita Wirza O.K. Rahmat and Marzanah A. Jabar	Preliminary Study for Strategic Planning for Research Department at IJN	National Heart Institute Malaysia	2013	Completed
11. Fatimah Sidi	Human Resource Knowledge System (SISMAN) Data Integrity Project	Registrar Office, UPM	2011	Completed
12. Fatimah Sidi	Human Resource Knowledge System Project (SISMAN)	Registrar Office, UPM	2009	Completed
13. Fatimah Sidi	International Office Website	International Office, UPM	2009	Completed
14. Fatimah Sidi	Consultant to University Student Information System (SMP), Integration and Main Data Application Warehouse Project	Academic Division, UPM	2008	Completed
15. Fatimah Sidi	Consultant to University Student Information System (SMP), Integration and Main Data Application Warehouse Upgrade Project	eNCoral Digital Solutions Sdn Bhd	2008	Completed RM5,000/ consultant
16. Fatimah Sidi	Data Integrity of electronic-Integrated Human Resource	Registrar Office, UPM	2008	Completed

Name of Consultant(s)	Name of Project/Program	Sponsor	Year	Status (Completed / Ongoing)
	Management System (e-IHRAMS)			
17. Fatimah Sidi	14th Asean University Games 2008 Archery Application Development Project	*Majlis Sukan Universiti Malaysia (MASUM)* (Malaysian University Sports Council)	2008	Completed
18. Fatimah Sidi	Archery Application Development, Asian University Sport	Sports Centre, UPM	2008	Completed
19. Fatimah Sidi	Knowledge Management (KM) Portal	Knowledge Management Centre, UPM	1999	Completed
20. Fatimah Sidi	Malaysian Ministry of Agriculture Integrated Agricultural Information System Research Project	Ministry of Agriculture and Centre for Policy Studies, Faculty of Economics and Management UPM	1997	Completed
21. Fatimah Sidi	New Financial and Education Loan Management System (ELMS)	Sarawak Foundation Malaysia	2010	Completed RM2,000/ consultant

II. CONSULTATION REPORT(S)

Name of Consultant(s)	Title of Report	Sponsor	Year	Status (Completed / Ongoing)
1. Marzanah A. Jabar, Fatimah Sidi, Iskandar Ishak	IIUM Data Dictionary and Enterprise Information Architecture (IDEIA) Project.	Islamic International University Malaysia (IIUM)	2014	Completed
2. Marzanah A. Jabar, Rahmitah O.K Wirza, Fatimah Sidi	Analysis and fact findings of ground staff at R&D IJN Kuala Lumpur	National Heart Institute Malaysia	2013	Completed

3.	Marzanah A. Jabar, Rahmitah O.K Wirza, Fatimah Sidi. Zainal Mohamad	Preliminary Findings (Individual Analysis and summary of analysis)	National Heart Institute Malaysia	2013	Completed
4.	Fatimah Sidi	Proposed New Financial and Education Loan Management System (ELMS)	Sarawak Foundation Malaysia	2010	Completed

CONFERENCES / SEMINARS ATTENDED

I KEYNOTE/ PLENARY/ INVITED SPEAKER AT INTERNATIONAL CONFERENCES

1. **Invited Speaker** at *the Faculty of Computing and Information Technology 1st Scientific Forum 2018*, paper entitled "A Comparative Analysis Study on Data Warehouse Conceptual Design", University of Tabuk, Saudi Arabia, 25-26 Feb 2018.

2. **Invited Speaker** at *Programme on Online Examination System from Sri Lanka*, paper entitled "Online Examination and Assesment System Setting", University Community Transformation Centre (UCTC), Universiti Putra Malaysia, 24 April 2018.

3. **Plenary Speaker** at the International Conference on Big Data Applications in Agriculture (ICBAA2017), paper entitled "Data Visualization for Agricultural Data: Benefits and Challenges", Institute of Plantation Studies, Universiti Putra Malaysia, 5-6 Dec 2017.

4. **Invited Speaker** at *the International Symposium On Big Data and Data Analytics 2015 (SBDDA2015)*, paper entitled "Implementation of General Domain Ontology in Software Development Process in Big Data Platform", University of Salford, Manchester, United Kingdom, 17-18 Dec 2015.

5. **Keynotes Address and Organizing Committee** at *the International Symposium on Applied Engineering and Sciences (SAES2014)*, paper entitled "Big Data Challenges in Malaysian Oil Palm Industry", Fukuoka, Japan, 20-21 December 2014.

6. **Invited Speaker,** 2013 at the Asia Pacific Internet Research Alliance (APIRA) 10th International Conference, 24-25th September 2013.

II KEYNOTE/ PLENARY/ INVITED SPEAKER AT NATIONAL CONFERENCES

1. **Key Address and Chair** at *the University ICT Administration Conference 2019 (Persidangan Pentadbiran ICT 2019)*, paper entitled "Empowering Smart Campus", Putrajaya, Malaysia, 131 July – 2 Aug 2019.
2. **Keynotes Address** at *the 2014 Malaysia ICT Service Improvement with Local Authority (PBT) Seminar*, paper entitled "Big Data: Challenges and Strategies for Implementation with PBT", Melaka, Malaysia, 18 September 2014.

III PRESENTER AT INTERNATIONAL CONFERENCES

1. **Presenter** at *the Modelling, Data Analytics and AI in Engineering 2024 (MadeAI2024)*, paper entitled "Ensemble Deep Learning Approach for Apple Fruitlet DetectionfFrom Digital Images", Porto, Portugal, 2-5 July 2024.
2. **Presenter** at *the Applied Informatics International Conference 2024 (AiIC2024)*, paper entitled "Leveraging Data Lake Architecture for Predicting Academic Student Performance", Putra Jaya, Malaysia, 25-2-3 Octobe 2024.
3. **Presenter** at *the 12th International Conference on Data Science, Technology and Applications (DATA2023)*, paper entitled "AutoImpute: An Autonomous Web Tool for Data Imputation Based on Extremely Randomized Trees", Italy, Rome, 11-13 July 2023.
4. **Presenter** at *the 8th International Conference on Information Management (ICIM 2022)*, paper entitled "ExtraImpute: A Novel Machine Learning Method For Missing Data Imputation", University of Cambridge, United Kingdom, 25-27 Mac 2022.
5. **Presenter** at *the 8th International Symposium on Applied Engineering and Sciences (SAES2020)*, paper entitled "IoT-based Door Locking Mechanism using Face Recognition Authentication", Virtual Conference, Kyutech Japan, 12-19 Dec 2020.
6. **Presenter** at *the Applied Informatics International Conference 2020 (AiIC2020)*, paper entitled "A Proposed Integration Architecture for University Research Data Repository to Support University and University Hospital on Medical Digital Image Management and Analytics Using Hadoop", Virtual Conference, Malaysia, 12-13 Aug 2020 [Best Paper Award].
7. **Presenter** at *the International Symposium on ICT Management and Administration (ISICTMA2019)*, paper entitled "Watermark Blending Technique for Securing User Authentication Data in Mobile Application Systems", Putrajaya, Malaysia, 31 July – 2 Aug 2019.
3. **Presenter** at *the Applied Informatics International Conference 2019 (AiIC2019)*, paper entitled "An Improved User Authentication Model for Mobile Application Systems: Statistical Analysis of User Acceptance", Penang, Malaysia, 2-4 July 2019.
4. **Presenter** at *the International Conference on Innovations in Computer Science and Engineering (ICICSE2019)*, paper entitled "An Improved

User Authentication Model for Mobile Application Systems: An Expert Review Verification", Miri Sarawak, Malaysia, 26-28 June 2019.

5. **Presenter** at *the Sixth International Conference on Computer Science & Computational Mathematics (ICCSCM 2017)*, paper entitled "An Integrated Information Security Threat Factor Profiling Model", Langkawi, Malaysia, 4-5 May 2017.

6. **Presenter** at *the International Conference on Innovation in Computer Science and Engineering (ICiCSE 2017)*, paper entitled "A Comparative Analysis Study on Information Security Threat Models: A Propose for Threat Factor Profiling", Serdang, Malaysia, 7-8 February 2017.

7. **Presenter** at *the 7th International Agriculture Congress 2016,* paper entitled "Identifying Real-time Sentiment on Oil Palm Industry Based on Social Media", Bangi, Malaysia, 4-6 October 2016.

8. **Presenter** at *the 3rd International Symposium on Applied Engineering and Sciences (SAES15),* paper entitled "Development of Decision Support System to enhance the decision of Rice Pesticide Management in Paddy Cultivation", Serdang, Malaysia, 23-24 November 2015.

9. **Presenter** at *the Knowledge Management International Conference (KMICe2014)*, paper entitled "Big Data Trend: Knowledge Discovery on the Unstructured Data", Langkawi, Malaysia, 12-15 August 2014.

10. **Presenter** at *the International Conference on Information Retrieval and Knowledge Management (CAMP'12)*, Mines Wellness Hotel, Kuala Lumpur, 13 – 15 March 2012.

11. **Presenter** at the *International Training and Seminars on Mathematics (ITSM2011)*, Samarkand State University, Samarkand, Uzbekistan, 3 - 5 June 2011.

12. **Presenter** at *the 15th International Business Information Management Conference*, Cairo, Egypt, 6 - 7 November 2010.

13. **Presenter** at *the Knowledge Management International Conference 2010 (KMICe2010),* Primula Beach Resort, Kuala Terengganu, 25 – 27 May 2010.

14. **Presenter** at *the International Conference on Knowledge Management 2005,* Putra World Trade Centre (PWTC), Kuala Lumpur, 7 – 9 July 2005.

IV PRESENTER AT NATIONAL CONFERENCES

1. **Presenter** at *the Seminar of the Department of Computer Science,* Faculty of Computer Science and Information Technology*,* UPM, paper entitled "Interrogative Knowledge Organization and Structuring from Unstructured Documents", 31 January 2011.

2. **Presenter** at *the National Seminar in Technology and Innovation for Teaching and Learning (SKTIP09)* (*Seminar Kebangsaan Teknologi dan Inovasi Pengajaran-Pembelajaran 2009 (SKTIP09)),* Hotel Palm Garden IOI Resort, Putrajaya, 28 – 29 April 2009.

3. **Presenter** and Participant at *the Information Technology Colloquium (INTEC'04)*, Faculty of Computer Science and Information Technology, UPM, 1 June 2004.

V   PARTICIPANT AT INTERNATIONAL CONFERENCES

1. Participant at *the 4th International Conference on Computer Assisted System in Health, Education and Sustainable Development (CASH2020)*, keynote sessions paper entitled "Resilient Humanized Computational Intelligence and Humanized Technology in health Technology applications" and "Big data features, applications, and analytics in cardiology- a systematic literature review", Online, Malaysia, 30 – 31 October 2020.
2. Participant at *the International Putra InnoCreative Carnival in Teaching and Learning 2020 (PicTL 2020)*, paper entitled "Academic Discourse Innovation for Future Education" and "Teaching without Lectures: Decoded", Webinar, Malaysia, 22 – 30 October 2020.
3. Participant at *the International Conference on Advanced Computer Science Applications and Technologies (ACSAT'12): Workshop on Computer Assisted Surgery and Diagnostic (CASD)"*, paper entitled "Integration of Heterogeneous Databases for Medical Experts", The Palace of the Golden Horses Hotel, Kuala Lumpur, 27 – 28 November 2012.

VI   PARTICIPANT AT NATIONAL CONFERENCES

1. Participant at *the Program Bulan Pendidik UPM 2020 - "Teaching from the Heart: Fun Learning"*, paper entitled "Webinar: Reimagine and Redesign Online Learning Experience" and "Sesi Perkongsian Amalan Terbaik Service Learning Malaysia @ SULAM – UPM", Webinar, Malaysia, 15 October 2020.
2. Participant at *the Talent Pool Seminar "Transformational Leadership for Future Leaders"*, Faculty of Biotechnology and Biomolecular Science, UPM, 22 – 23 November 2012.
3. Participant at *the Seminar on Value Management*, IOI Resort Palm Garden Hotel, Putrajaya, 28 – 29 May 2012.
4. Participant at the *Organizations with International Reputation Seminar, Renaissance Kota Bharu Hotel*, Kelantan, 8 – 10 February 2012.
5. Participant at *the Administrator Empowerment Seminar,* Faculty of Engineering, UPM, 19 July 2011.
6. Participant at *the Seminar 1Citizen Program,* organized by Prestariang System Sdn Bhd at Faculty of Computer Science and Information Technology, UPM, 18 – 20 & 25 – 27 March 2011.
7. Participant at *the Smart Money Management Seminar*, Faculty of Human Ecology, UPM, 10 December 2010.
8. Participant at *the Seminar on Innovation in Teaching and Learning for Higher Education*, Kuala Lumpur, 15 April 2009.
9. Participant at *the 2007 Teaching and Learning at Higher Education Conference (CTLHE07), Kuala Lumpur*, Malaysia, 2007.

I. INTERNATIONAL

1. International Conference of Social Sciences and Management (iRandau 2021), Online Conference, 22-23 Jun 2021.
   - **Best Paper Award entitled**, "*Revisiting Social Media Crisis Communication Model for Building Resilience Via Artificial Neural Analysis*".
2. Applied Informatics International Conference 2020 (AiIC2020), Online Conference, 12-13 August 2020.
   - **Best Paper Award** entitled "*A Fakeheader: A Tool to Detect Deceptive Online News Based on Misleading News Headlines and Contents*".
   - **Best Paper Award** entitled "*A Proposed Integration Architecture for University Research Data Repository to Support University and University Hospital on Medical Digital Image Management and Analytics Using Hadoop*".
3. International University Carnival on E-Learning (IUCEL2019), Universiti Malaysia Sarawak, 20-22 August 2019.
   - **Bronze Award** for project entitled, "*Education Analytics in UPM Smart Campus*".
4. International Conference & Exposition on Invention of Institutions of Higher Learning (PECIPTA), Kuala Lumpur Convention Centre, Malaysia.
   - **Bronze medal** for project entitled, "*Malay Interrogative Knowledge Identifier*", **Fatimah Sidi**, Marzanah A. Jabar, Iskandar Ishak, Lilly Suriani Affendy, Nor Fazlida Mohd. Sani, Aida Mustapha, Fatimah Khalid, and Rodziah Atan, 7 – 9 November 2013.
   - **Bronze medal** for project entitled, "*Mobile Forest Plant Tagging System*", **Fatimah Sidi**, Iskandar Ishak, Marzanah A. Jabar, Lilly Suriani Affendey, Ali Mamat, Hamidah Ibrahim, Hazlina Hamdan, Amir Syamimi Bin Hashim, and Paiman Bawon, 7 – 9 November 2013.
5. International Conference on Computing, Mathematics and Statistics (ICMS 2013), Penang, Malaysia, 28–29 November 2013
   - **Best Paper Award** entitled "*Is the Star Schema Really Better than Relational Schema? – Further Experimentation on Understandability of the Two Schemas*".

II. NATIONAL

1. Malaysian Innovation Expo (MIExpo), Banquet Hall, UPM, Malaysia.
   - **Gold** medal for project entitled, "*D'Seat*", Marzanah A. Jabar, **Fatimah Sidi**, Chong Fong Yee, Seit Kar Mun, Fung Kah Wei, Pathiah Abdul Samat, Salfarina Abdullah, Noraini Che Pa, and Niloofar Yousefie, 26 – 28 September 2013.
   - **Silver** medal for project entitled, "*Malay Interrogative Knowledge Identifier*", **Fatimah Sidi**, Marzanah A. Jabar, Iskandar Ishak, Lilly Suriani Affendy, Nor Fazlida Mohd. Sani, Aida Mustapha, Fatimah Khalid, and Rodziah Atan, 26 – 28 September 2013.

- **Silver** medal for project entitled, *"Hooray Hubby"*, Marzanah A. Jabar, **Fatimah Sidi**, Chong Fong Yee, Seit Kar Mun, Fung Kah Wei, and Niloofar Yousefi, 26 – 28 September 2013.
- **Silver** medal for project entitled, *"Geriatrics Information System"*, Marzanah A. Jabar, **Fatimah Sidi**, Chou Ten San, and Niloofar Yousefi, 26 – 28 September 2013.

2. Exhibition in Design, Research, and Innovation (PRPI), Great Hall, UPM, Malaysia.
   - **Gold** medal for project entitled, *"Concept-based Video Retrieval System"*, Lilly Suriani Affendey, Norwati Mustapha, Shyamala Doraisamy, Fatimah Khalid, **Fatimah Sidi**, Ali Mammat, Hamidah Ibrahim, Iskandar Ishak and Nor Fazlida Mohd Sani, 30 September – 01 October 2014.
   - **Silver** medal for project entitled, *"Automated Template for Software Requirements Elicitation"*, Marzanah A. Jabar, Abdul Azim Abd Ghani, Saadah Hasan, **Fatimah Sidi**, Ramin Ahmad and Mohammad Yaser Shafazan, 30 September – 01 October 2014.
   - **Bronze** medal for project entitled, *"Watermarking QR Code's Data Transmission"*, **Fatimah Sidi**, Kartini Mohamed, Marzanah A. Jabar and Iskandar Ishak, 30 September – 01 October 2014.
   - **Bronze** medal for project entitled, *"Dairy Farm Feed Management Decision Support System"*, Marzanah A. Jabar, **Fatimah Sidi**, Rozi Nor Haizan Nor, Niloofar Yosoufei, Ramin Ahmad and Mahda Noura, 30 September – 01 October 2014.
   - **Silver** medal for project entitled, *"A Threshold-Based Combination of Semantic and String Similarity measures for Record Linkage"*, **Fatimah Sidi**, Hamidah Ibrahim, Mohammadreza Ektefa, and Marzanah A. Jabar, 19 – 21 July 2011.
   - **Silver** medal for project entitled, *"FText: Fuzzy Text Extractor"*, Nurfadhlina Mohd Sharef, and Fatimah **Sidi**, 19 – 21 July 2011.
   - **Silver** medal for project entitled, *"Localizing Integrity Constraints Checking in Distributed Databases"*, Hamidah Ibrahim, Ali Amer Alwan, Nur Izura Udzir, and **Fatimah Sidi**, 20-22 July 2010.

3. Intellectual Property Incentive for Copyright, 2011, UPM.
   - *"CRLS (Combined Record Lingkage System)"*, **Fatimah Sidi**, Marzanah A.Jabar, Mohammadreza Ektefa, Hamidah Ibrahim and Ahri Sogok.
   - *"e-Counseling System"*, **Fatimah Sidi**, Marzanah A.Jabar, Aida Mustapha, Nor Fazlida Mohd. Sani, Rodziah Atan, Siti Rozana Supian, Rafidah Sadarudin and Ahri Bin Sogok.
   - *"Online Malay Dictionary and Mobile Dictionary System"*, **Fatimah Sidi,** Marzanah A.Jabar, Tng Li Li, Aida Mustapha and Ahri Sogok.
   - *"P'SAMAK System"*, **Fatimah Sidi**, Marzanah A. Jabar, Ahri Sogok, Lilly Suriani Affendey, Nor Fazlida Mohd. Sani, Aida Mustapha, Nurfadhlina Mohd Sharef, Rodziah Atan, Fatimah Khalid, Noraini Che Pa, Azizol Abdullah, Azrul Hazri Jantan, Amir Rizaan Abd.Rahiman, Noor Izura Ibrahim, Zanariah Tohari, Hishamuddin Abd Samad and Syemsul Bahrim Abdul.

- *Human Resource Knowledge System (SISMAN),* **Fatimah Sidi**, Marzanah A.Jabar, Aida Mustapha, Nor Fazlida Mohd. Sani, Rodziah Atan, Wan Azman Wan Omar, Siti Rozana Supian, Hashim Md. Shari, Maziah Alis@Alias and Mohd Nor Hisham Che Jaafar.
- *Merit Appraisal System,* **Fatimah Sidi,** Marzanah A.Jabar, Nurul Hasyimah Hussin, Aida Mustapha and Ahri Sogok.
- *"Student Hostel System Portal",* **Fatimah Sidi,** Marzanah A.Jabar, Sia Ying Xin, Aida Mustapha and Ahri Sogok.
- *"Vehicle Service System",* **Fatimah Sidi,** Marzanah A.Jabar, Teo Chong Ji, Aida Mustapha and Ahri Sogok.
- *"Dialogue-based Train Information System",* Aida Mustapha, **Fatimah Sidi,** Marzanah A. Jabar, Lilly Suriani Affendey, Nor Fazlida Mohd. Sani, Nurfadhlina Mohd Sharef, Rodziah Atan, Fatimah Khalid, Noraini Che Pa, Azizol Abdullah, Azrul Hazri Jantan, Azmi Jaafar, Ahri Sogok, Noor Izura Ibrahim and Syemsul Bahrim Abdul.
- *"e-Medical System Universiti Putra Malaysia",* Marzanah A. Jabar, **Fatimah Sidi,** Siti Rozana Supian, Aida Mustapha, Nor Fazlida Mohd. Sani, Rodziah Atan, Wan Azman Wan Omar and Hashim Md. Shari.
- *"Knowledge Extraction Profiling and Networking (KEPSNET) Software",* Marzanah A. Jabar, **Fatimah Sidi** and Zailani Abdul Latif.
- *"e-Vailability Mobile System",* Marzanah A. Jabar, **Fatimah Sidi** and Mohd Shamin Jamsari.
- *"Geriatrics Information Management Software",* Marzanah A. Jabar, **Fatimah Sidi** and Tou Chen San.

4. *Excellent Service Award* 1995, 2000, 2002, 2013 & 2019, UPM.
5. *Excellent Research Grant Award Round Trophy* 2020, Quality and Innovation Day, Faculty of Computer Science and Information Technology, UPM.
6. *Excellent Research Grant Award* 2020, Quality and Innovation Day, Faculty of Computer Science and Information Technology, UPM.
7. *Excellent Lecturer Teaching Award* 2020, Quality and Innovation Day, Faculty of Computer Science and Information Technology, UPM.
8. *Excellent Lecturer Teaching Award* 2019, Quality and Innovation Day, Faculty of Computer Science and Information Technology, UPM.
9. *Excellent Research Grant Award* 2014, Quality and Innovation Day, Faculty of Computer Science and Information Technology, UPM.
10. *Excellent Research Publication Award* 2013, Faculty of Computer Science and Information Technology, UPM.
11. *Excellent Research Grant Award* 2013, Quality and Innovation Day, Faculty of Computer Science and Information Technology, UPM.
12. *Excellent IP (Intellectual Property) Award* 2011, Faculty of Computer Science and Information Technology, UPM.
13. The Data Scientist's Toolbox Verify Certificate (with Distinction), Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University, Verify at coursera.org/verify/YHHGE3HZVJ, 8 Jun 2015.

14. The R Programming Verify Certificate (with Distinction), Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University, Verify at coursera.org/verify/ D8PEUBB59K, 2 July 2015.
15. The Getting and Cleaning Data Verify Certificate (with Distinction), Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University, Verify at coursera.org/verify/ 83L2JNAQ22, 4 August 2015.
16. The Exploratory Data Analysis Verify Certificate (with Distinction), Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University, Verify at coursera.org/verify/ 9XXE9NQPFE, 1 Sept 2015.
17. The Reproducible Research Verify Certificate (with Distinction), Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University, Verify at coursera.org/verify/ 9C8RVABB8N, 6 Oct 2015.
18. The Statistical Inference Verify Certificate (with Distinction), Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University, Verify at coursera.org/verify/ SRECMWR96D, 4 Nov 2015.
19. The Regression Models Verify Certificate (with Distinction), Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University, Verify at coursera.org/verify/ KASH7NKKS, 30 Nov 2015.
20. Best Table Topics Speaker Certificate voted at Putra Toastmaster Club.
21. Putra Loyal Service Certificate of Appreciation 2012, UPM.
22. Excellence Service Awards 1995, 2000, 2002, 2013, 2019, UPM.
23. Certificate of Appreciation Excellence Service 1995, 1999, 2000, 2001, 2002, 2007, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018 & 2019, 2020, 2021, 2022, 2023 UPM.
24. Certificate of Appreciation for Quality Service, Quality Day 1999, UPM.
25. Sijil Anugerah Gemilang (Certificate for Award of Brilliance) 2013, Faculty of Computer Science and Information Technology (CSiT), UPM.
    - Anugerah Geran Penyelidik Cemerlang (Excellent Researcher Grant Award) 2013
    - Anugerah Penerbitan Penyelidik (Research Publication Award) 2013
26. Sijil Anugerah Gemilang (Certificate for Award of Brilliance) 2011, Faculty of Computer Science and Information Technology (CSiT), UPM.
    - Anugerah IP Cemerlang (Award for IP Excellence) 2011
    - Anugerah Geran Cemerlang (Award for Grant Excellence) 2011
    - Anugerah IP Terbilang (Award for IP Distinction) 2011
    - Anugerah Perkhidmatan Cemerlang (Award for Service Excellence) 2011
27. Sijil Anugerah Gemilang (Certificate for Award of Brilliance) 2009, Faculty of Computer Science and Information Technology (CSiT), UPM.
    - Anugerah Pengajar Cemerlang (Excellent Teacher Award) 2009
28. Certificate of Appreciation as Second Most Active Lecturer Using PutraLMS, Semester 2009/2010, Center for Academic Development (CADe), UPM.
29. Certificate of Appreciation as Co-Chair and Committee Member for Technical Content and Paper Presented at the 2009 National Seminar in Technology and Innovation for Teaching and Learning (SKTIP09), Center for Academic Development (CADe), UPM.
30. Certificate of Appreciation as Speaker, 2009 Data Modelling and Development of Database Application Course, Department of Computer

Science, Faculty of Computer Science and Information Technology (CSiT), UPM.
31. Certificate of Appreciation as Committee Member, the 2007 Teaching and Learning Conference at Higher Education Conference (CTLHE07), Center for Academic Development (CADe), UPM.

RECOGNITION

I. THESES EXAMINATION

Internal Examiner

Ph.D Viva Examination (Internal Examiner)

1. Ge Shengguo (GS59416), *An Effective Source Number Estimation Approach Under Small Snapshot Numbers*, 2024, UPM.
2. Nur Fatin Nabila Bt Mohd Rafei Heng (GS17455), *A Method to Enrich Domain Ontology Using Synonym and Probability Theory*, 06 September 2016, UPM.
3. Wael Jumah Abdel Latif Alzyadat (GS24106), *Data Filtering Framework for Preserving Meaningful Data Records from Streams of Unstructured Weather Data*, 10 July 2014, UPM.
4. Salfarina Abdullah (GS25305), *Knowledge Transfer Model of Team Capability in Non-Collocated Software Architecture Development,* 10 August 2012, UPM.

MSc Viva Examination (Internal Examiner)

1. Jafreen Hossain (GS34731), *Enhanced Normalization Approach to Address Stop-Word Complexity in Compound-Word Schema Labels*, 3 June 2014, UPM.
2. Osamah Abdul Sattar Mahdi (GS29801), *A New Approach for Instance-Based Schema Matching*, 29 May 2014, UPM.
3. Zarina Dzolkhifli (GS18508), *Caching Relevant Data During Integrity Constraints Checking in Mobile Database*, 09 July 2012, UPM.

MSc Viva Examination (Chairman)

1. Maznifah binti Salam (GS232675), *Architecture for High Data Availibility Using Server Virtualization for Disaster Recovery*, 30 Nov 2015, UPM.
2. Nor Azura binti Md Ali (GS25614), *Improving Embedded Linear Elasticity in Deformable Models using Stiffness Matrix*, 20 Apr 2015, UPM.
3. Mohammad Yaser Shafazand (GS31589), *CPU Availability Predictor and Machine Recommender for a Desktop Grid*, 17 July 2014, UPM.

External Examiner

Ph.D Viva Examination (External Examiner)

1. Adamu Sa'ad Madaki, *Model Pelaksanaan Integrasi Teknologi Maklumat Untuk Meningkatkan Penyampaian Perkhidmatan Dalam Sektor Awam*, 2024, Universiti Kebangsaan Malaysia.
2. Nurhadi, *Penyesuai Pangkalan Data Pintar Untuk Pengurusan Data Lake Menggunakan Support Vector Machine Dan Alat Perisian Antlr,* 2023, Universiti Kebangsaan Malaysia.
3. Herison Surbakti, *Tacit Knowledge for Business Intelligence Framework Using Cognitive-Based Approach*, 2021, Universiti Utara Malaysia, Kedah.
4. Mohammad Masudur Rahman, *Factors Influencing Adoption of Cloud Computing in Higher Educational Institutions of Bangladesh: A Study on Users' Perspectives*, 2021, International Islamic University Malaysia, Selangor.
5. Marwa Behjat Swidan, *Skyline Queries Computation and Missing Values Estimation of Skylines on Crowdsourced-Enabled Incomplete Database*, 2020, International Islamic University Malaysia, Selangor.
6. Mofuru Amusa, *Development of Information System for Counterfeit Drug Control*, 25 April 2019, Asia e University, Kuala Lumpur.
7. Zaid Ali Sabeeh, *Framework for Knowledge Composites and Relevancy in a Knowledge Sharing Environment Among Physicians*, 11 May 2016, Asia e University, Kuala Lumpur.

MSc Viva Examination (Internal Examiner)

1. Mohd Reffi Hidayat Roslan*, Information System Performance Evaluation Model based on Quality System,* Universiti Kebangsaan Malaysia, Bangi, Malaysia, 2018.
2. Sean Goh Ka Hong, *Mandatory Task Prioritization Algorithm using Task Classification*, 8 Oct 2018, National Energy University, Putrajaya, Malaysia.
3. Abdullahi Abubakar Imam, *Data Synchronization Model for Heterogeneous Mobile Device Databases and Server-Side Database*, 18 Feb 2016, Universiti Teknologi Petronas, Perak, Malaysia.

Master of Information Technology Theses

1. Bilal Ahmed Mohammed, *Development of a Customized Help Desk Knowledge Management (CHKM) Framework Using Knowledge Management Approach*, 2012, College of Information Technology, Universiti Tenaga Nasional (UNITEN), Selangor.
2. Mohammad Salim Abdulrahman, *Development of an Information Security Governance Framework for Modul Health Sector,* 2012, College of Information Technology, Universiti Tenaga Nasional (UNITEN), Selangor.
3. Sara Sadat Khoshnevis, *Online Character Recognition from Malay Check Word Database Using Support Vector Machine,* 2011, College

of Information Technology, Universiti Tenaga Nasional (UNITEN), Selangor.

4. Al Omari Zohir Hamed, *A Study of a Knowledge Audit Methodology for Reference and Customer Services Unit at Uniten Library,* 2010, College of Information Technology, Universiti Tenaga Nasional (UNITEN), Selangor.

II.   EDITORIAL BOARD/TECHNICAL EDITOR/REVIEWER

EDITORIAL BOARD

Journals

1. Editorial Board Member, International Journal of Advanced Technology and Engineering Exploration (IJATEE). ISSN (Print):2394-5443. ISSN (Online):2394-7454. 2019.
2. Editorial Board Member, Journal of Information Systems and Technology Management (JISTM), eISSN 0128-1666, since 2018.

Proceedings

1. Chief Editor, *Prosiding Persidangan Pentadbiran ICT 2019 (PPICT2019)*. Serdang: UPM Infocomm Development Centre, ISBN 978-967-960-458-0.
2. Chief Editor, *Proceedings of the International Symposium on ICT Management and Administration (ISICTMA2019).* Serdang: UPM Faculty of Computer Science and Information Technology, ISBN 978-9676-960-456-6.
3. Editorial Board Member, *Proceedings of the 3rd International Symposium on Applied Engineering and Sciences 2015 (SAES2015)*. Serdang: UPM Faculty of Computer Science and Information Technology, ISBN 978-967-960-402-3.
4. Editorial Board Member, *Proceedings of the Malaysian National Conference on Databases (MaNCoD) 2014,* Serdang Selangor, Malaysia, ISBN: 978-983-2408-19-2 2014.
5. Editorial Board Member, *Proceedings Monograph of the 2009 National Seminar in Technology and Innovation for Teaching and Learning (SKTIP09)*, Putrajaya, Malaysia, 2009.
6. Editorial Board Member, *Monograph Series on Teaching and Learning at Public Institutions of Higher Learning (IPTA) 1- Development of Human Capital.* Serdang: UPM CADe, (2007), ISBN: 978-967-960-221-0.
7. Editorial Board Member, *Monograph Series on Teaching and Learning at Public Institutions of Higher Learning (IPTA) 2- Strategies and Methods for Teaching and Learning.* Serdang: UPM CADe, (2007), ISBN: 978-967-960-222-7.
8. Editorial Board Member, *Monograph Series on Teaching and Learning at Public Institutions of Higher Learning (IPTA) 3- Technology and Innovation in Teaching and Learning.* Serdang: UPM CADe, (2007), ISBN: 978-967-960-223-4.

9. Editorial Board Member, *Monograph Series on Teaching and Learning at Public Institutions of Higher Learning (IPTA) 4- Policy and Management in Teaching and Learning.* Serdang: UPM CADe, (2007), ISBN: 978-967-960-224-1.
10. Editorial Board Member, *Monograph Series on Teaching and Learning at Public Institutions of Higher Learning (IPTA) 5- Current Issues in Higher Learning.* Serdang: UPM CADe, (2007), ISBN: 978-967-960-225-8.
11. Editorial Board Member, *Monograph of the 2007 Teaching and Learning Conference at Higher Education Conference (CTLHE07)),* Kuala Lumpur, Malaysia, 2007.
12. Editorial Board Member, *Proceedings Monograph of the 2005 International Conference on Knowledge Management,* Kuala Lumpur, Malaysia, 2005.

Books

1. Editorial Board Member, *Approach and Technologies in Teaching and Learning.* Serdang: UPM Press, ISBN: 978-967-344-211-9, 2011.
2. Editorial Board Member, *System Development Document Series e-Counseling System.* Serdang: UPM Press, ISBN: 978-976-960-303-3, 2011.
3. Editorial Board Member, *System Development Document Series Human Resource Knowledge System.* Serdang: UPM Press, ISBN: 978-967-960-302-6, 2011.
4. Editorial Board Member, *System Development Document Series e-Medical System.* Serdang: UPM Press, ISBN: 978-967-960-301-9, 2011.
5. Editorial Board Member, Faculty of Computer Science and Information Technology – *at a glance.* Serdang: UPM Press, ISBN: 978-967-960-304-0, 2011.
6. Editorial Board Member, *Di Sini Memori Tercipta (Here Memories are Created).* Serdang: Kolej Kediaman Dua Belas UPM (Twelve College Residence UPM), ISBN: 978-967-960-306-4, 2011.
7. Editorial Board Member, *Apresiasi Graduan Cemerlang: Kolej 14 Universiti Putra Malaysia (Appreciation of Excellent Graduates: Fourteenth College Universiti Putra Malaysia).* Serdang: Kolej Kediaman Empat Belas UPM (Fourteenth Residential College UPM),, ISBN: 978-967-960-308-8, 2011.
8. Editorial Board Member, *Malam Pesona Bintang V (Night of Enchanting Stars V).* Serdang: Kolej Kediaman Lima Belas UPM (Fifteenth Residential College UPM), ISBN: 978-967-344-241-6, 2011.
9. Editorial Board Member, *Semai Bakti Siswa Perkasa (Strengthening Students by Serving Others).* Serdang: Kolej Kediaman Lima Belas *UPM* (Fifteenth Residential Colleg UPM), ISBN: 978-967-344-240-9, 2011.
10. Editorial Board Member, *Jauh Perjalanan Sejuta Kenangan (A Jouney of a Thousand Miles brings a Thousand Memories).* Serdang: Kolej Kediaman Enam UPM (Fourteenth Residential College UPM), ISBN: 978-967-960-305-7, 2011.

REVIEWER

Journals

1. Reviewer Pertanika Journal of Science and Technology (JST), 2021.
2. Reviewer Journal of King Saud University - Computer and Information Sciences, since 2019.
3. Reviewer Information Sciences, Elsevier Inc, 2018.
4. Reviewer, Journal of Information System and Technology Management (JISTM), Global Academic Excellence, since 2018.
5. Reviewer, International Journal of Electrical Power and Energy Systems, School of Engineering Taylor's University, 2018.
6. Reviewer, Computer Journal, Oxford University Press, 2017.
7. Reviewer, *electronic Journal of Computer Science and Information Technology (eJCSIT),* [EBSCO, Google Scholar]*,* Universiti Tenaga Nasional (UNITEN), Malaysia, for paper entitled "Developing a Framework to Improve and Enhance IT Services at One Malaysian Private University", 2013.
8. Reviewer, *electronic Journal of Computer Science and Information Technology (eJCSIT),* [EBSCO, Google Scholar]*,* Universiti Tenaga Nasional (UNITEN), Malaysia, for paper entitled "Developing a Framework to Improve and Enhance IT Services at One Malaysian Private University", 2013.
9. Reviewer, *Journal of Information and Communication Technology (JICT),* [Scopus]*,* Universiti Utara Malaysia, Malaysia, for paper entitled "Knowledge Profiling for Social Network News Release", 2009.

Proceedings

1. Reviewer, *the 13th International Conference on Data Science, Technology and Applications (DATA 2024),* for papers entitled "Logical Rule Set to Data Acquisition and Database Semantics".
2. Reviewer, *the 9th International Joint Symposium on Applied Engineering and Sciences (SAES2021),* for papers entitled "Mobile Malware Classification", Kuching, Sarawak, Malaysia, 5-8 Dec 2021.
3. Reviewer, *the International Conference on Innovations in Computer Science and Engineering (iCiCSE2018),* for paper entitled "Mobile Malware Classification", Kuching, Sarawak, Malaysia, 30-31 July 2018.
4. Reviewer, *the International Conference on Innovations in Computer Science and Engineering (iCiCSE2018),* for paper entitled "Analysis of Effect of the Long Process of Milk Storage on the Quality of Milk Flug using Simple Additive Weighting Method", Kuching, Sarawak, Malaysia, 30-31 July 2018.
5. Reviewer, *the International Fourth International Conference on Information Retrieval and Knowledge Management (CAMP'18),* IEEE & PECAMP, for paper entitled "Subset Significance Threshold: An Effective Constraint Variable for Mining Significant Closed Frequent Itemsets", Kota Kinabalu, Sabah, Malaysia, 26-28 March 2018.

6. Reviewer, *the International Fourth International Conference on Information Retrieval and Knowledge Management (CAMP'18),* IEEE & PECAMP, for paper entitled "A Review on Complex Event Processing Systems for Big Data", Kota Kinabalu, Sabah, Malaysia, 26-28 March 2018.

7. Reviewer, *the International Fourth International Conference on Information Retrieval and Knowledge Management (CAMP'18),* IEEE & PECAMP, for paper entitled "Expert Review on Big Data Analytics Implementation Model in Data-driven Decision-Making", Kota Kinabalu, Sabah, Malaysia, 26-28 March 2018.

8. Reviewer, *the Centre for Research & Development, Taylor's University*, for paper entitled "Identifying and Anlayzing the Transient and Permanent Barriers for Big Data", 14 Jun 2016.

9. Reviewer, *the Malaysian National Conference on Databases (MaNCoD) 2014,* Universiti Putra Malaysia, Malaysia, for papers entitled "A Review of Sentiment Analysis Approaches in Big Data Era" and "Secure Data Retrieval Technique from Restricted Database Access", 2014.

10. Reviewer, *the Knowledge Management International Conference (KMICe2014),* Universiti Utara Malaysia, Malaysia, for papers entitled "Factors Affecting The Adoption Of Cloud Based Student Information System In Kedah (CBSIS)", "Avatar Warrior: A Kansei" and "Analysis Motivating Attributes to Social Media for Knowledge Sharing Success", 2014.

11. Reviewer, *the 8th International Conference on IT in Asia (CITA '13),* Universiti Malaysia Sarawak, Malaysia, for paper entitled "Review on Current Trends and Challenges in the Use of IT in Asia Pacific", 2013.

12. Reviewer, *the 8th International Conference on IT in Asia (CITA '13),* Universiti Malaysia Sarawak, Malaysia, for paper entitled "Effect of Internet Utilization on University Students", Kuching, Malaysia, 1-4 July 2013.

13. Technical Reviewer, *the International Conference on Information Retrieval and Knowledge Management (CAMP '12),* Kuala Lumpur, Malaysia, 2012.

14. Reviewer, *the International Conference on Information Retrieval and Knowledge Management (CAMP '12),* Kuala Lumpur, Malaysia, 2012.

15. Reviewer, *the 4th International Symposium on Information Technology (ITSim'10),* Universiti Teknologi Petronas, Malaysia, for paper entitled "Exploring Scientific Data: The Management and Preservation Strategies", 2010.

Book

Reviewer, *Publisher Universiti Tun Hussien Onn (UTHM)*, for book entitled *"Membina Laman Web Menggunakan CMS Langkah Demi Langkah (Step by Step: Developing Website Using CSM)"*, 2012.

Research Grant

1. Reviewer, Malaysia Greater Research Network System (Mygrant), Ministry of Education (MoE), Malaysia, since 2018.
2. Reviewer, *Taylors Research Grant Scheme (TRGS) Proposal,* Centre for Research and Development, Taylor's University, Malaysia, 2012.

III.   PROFESSIONAL SERVICES

1. Technical Expert of the Certified Ethereum and Solidity Practitioner (ETH/SOL), 2019.
2. Technical Expert of the IBM Information Management DB2 10 Technical Professional v3, 2013.
3. Technical Expert of the Certiport Certified Trainer Certiport's Internet and Computing Core Certification (IC3®) IC Citizen - Digital Etiquette, Microsoft® Office Specialist (MOS), American Fork, Utah, 2011.
4. Technical Expert of the IBM Certified Academic Associate DB2 9 Database and Application Fundamentals, 2011.
5. 1Citizen Professional Certified Trainer with the Malaysian of Higher Education and Prestariang Sdn Bhd, Putrajaya, Malaysia, 2010.

IV.   PROFESSIONAL MEMBERSHIPS

1. Council Member of the Cisco System, Inc. USA for the Cisco Malaysia Academic Council, 2020.
2. Advisory of the Oracle Corporation, USA for the Oracle Academy University on Oracle's Autonomous Database, Oracle Corporation Malaysia, 2020.
3. Member of the Malaysian Board of Technologist (MBOT), Professional Technologist in Information and Computing Technology (IT), (Membership number: PT20050240), since 7 May 2020.
4. Member of International Association of Engineers (IAENG) (Membership number: 248768), 2019.
5. Member of Malaysian Board of Technologist, Graduate Technologist in Information and Computing Technology (IT), since 31 Oct 2019.
6. Member of Information Retrieval and Knowledge Management Society/ PECAMP - Persatuan Capaian Maklumat dan Pengurusan Pengetahuan. (Membership Number: M0150), 2012.
7. Member of IEEE Computer Society (Membership No: 98352872, 90926717), 2010.
8. Member of UPM Alumni Association (Membership No: F852), 2008.

INVOLVEMENT / COMMITTEE MEMBERSHIP / EXTENSION

I.   INTERNATIONAL LEVEL

1. **Visiting Professor Global Learning Week,** 2020 – Telekom University, Bandung Indonesia.
2. **Research Member** on Research Project entitled "Does Lesson Study Work?: A Systematic Review on the Effects of Lesson Study On Teachers And Students", Universitas Negeri Malang (UM), Indonesia, 18th January 2019.
3. **Steering Committee** for *the Wood and Biofiber International Conference 2017 (WOBIC2017)*, Bandar Baru Bangi, Selangor, Malaysia, 21-23 November 2017.
4. **Organizing Committee** for *the International Symposium on Applied Engineering and Sciences (SAES 2017)*, Serdang, Malaysia, 14-15 November 2017.
5. **Organizing Committee** for *the Association of Southeast Asian Institutions of Higher Learning (ASAIHL) Conference 2016*, Putrajaya, Malaysia, 4-6 Dec 2016.
6. **Head of Technical Committee** for *the Association of Southeast Asian Institutions of Higher Learning (ASAIHL) Conference 2016*, Putrajaya, Malaysia, 1 Nov 2015 – 31 Dec 2016.
7. **Session Chair** for *the 3rd International Symposium on Applied Engineering and Sciences (SAES 15),* Serdang, Malaysia, 23-24 November 2015.
8. **Committee Member** for *the 3rd International Symposium on Applied Engineering and Sciences (SAES 2015)*, Serdang, Malaysia, 23-24 November 2015.
9. **Organizing Committee** for *the International Symposium on Applied Engineering and Sciences (SAES 2014)*, Fukuoka, Japan, 20-21 December 2014.
10. **Session Chair** for *the Knowledge Management International Conference (KMICe2014)*, Langkawi, Malaysia, 12-15 August 2014.
11. **Technical Committee** for *the Knowledge Management International Conference (KMICe2014)*, Langkawi, Malaysia, 12-15 August 2014.
12. **Program Committee** for *the 8th International Conference on IT in Asia 2013 (CITA'13)*, Kuching, Sarawak, 2 - 4 July 2013.
11. **Program Committee** for *the 18th International Business Information Management Conference*, Istanbul, Turkey, 9 - 10 May 2012.
13. **Session Chair** for *the International Conference on Information Retrieval and Knowledge Management (CAMP'12)*, Mines Wellness Hotel, Kuala Lumpur, 13 – 15 March 2012.
14. **Organizing Committee**, International Conference on Information Retrieval and Knowledge Management (CAMP'12), Kuala Lumpur, 2011-2012.
12. **Local Chair** for *the 16th International Business Information Management (IBIMA) Conference*, Kuala Lumpur, 29 – 30 June 2011.
15. **Session Chair** for *the International Training and Seminars on Mathematics (ITSM2011)*, Samarkand State University, Samarkand, Uzbekistan, 3 -5 June 2011.

16. **Organizing Committee** for *the 4th International Symposium on Information Technology (ITSim10)*, 2010.
17. **Committee Member** for *Development of Archery Software for Asean University*, Sports Centre UPM, 2008.
18. **Member**, Share Guide IBM Association (M), since 1989.

II.   NATIONAL LEVEL

1. **Committee Member** for *the ICT Steering Committee (Jawatankuasa Pemandu ICT (JPICT)),* Ministry of High Education Malaysia, May 2020 – Dec 2022.
2. **Committee Member** for *the Technical ICT Committee (Jawatankuasa Teknikal ICT (JTI)),* Ministry of High Education Malaysia, May 2020 – Dec 2022.
3. **Committee Member** for *the ICT Steering Committee (Jawatankuasa Pemandu ICT (JPICT)),* Ministry of Education Malaysia, Jan 2019 – Dec 2020.
4. **Committee Member** for *the Technical ICT Committee (Jawatankuasa Teknikal ICT (JTI)),* Ministry of Education Malaysia, Jan 2019 – Dec 2020.
5. **Panel Head of Examination Question Vetters** for *the Computer Science Matriculation Programme End of Semester Assessment*, Matriculation Division, Ministry of Education Malaysia, 25-27 Julai 2017; 27-29 Sept 2016.
6. **Panel Head of Examination Legislator** for *the Computer Science Matriculation Programme,* Matriculation Division, Ministry of Education Malaysia, Nov 2015, Jun 2015, April 2015, Nov 2014, Nov 2013.
7. **Sub-Committee Member** for *the Committee to revise and coordinate the implementation of e-Learning Policy (Jawatankuasa Kecil Kajian, Pemurnian dan Penyelarasan Pelaksanaan Dasar e-Pembelajaran (DePAN),* Department of Higher Education (Jabatan Pengajian Tinggi), Ministry of Higher Education Malaysia,1 May 2015 – 30 April 2015.
8. **Speaker** for *the Career Programme in Information and Communication Technology (ICT) (Program Kerjaya dalam Bidang Teknologi Maklumat dan Komunikasi (ICT)),* MARA Junior Science College Tun Ghafar Baba (Maktab Rendah Sains MARA (MRSM) Tun Ghafar Baba), Jasin, Melaka, 10 March 2014.
9. **Examination Legislator** for *Computer Science Matriculation Programme*, Matriculation Division, Ministry of Education Malaysia, May 2014, May 2013.
10. **Examination Setter** for *the Computer Science Matriculation Programme Final Examination Questions and Schema,* Matriculation Division, Ministry of Education Malaysia, Nov 2013.
11. **Examination Vetter** for *the Computer Science Matriculation Programme Final Examination Questions and Schema,* Matriculation Division, Ministry of Education Malaysia, Sept 2014, Feb 2014, Jun 2013.
12. **Chair and Events Committee** for *the Malaysian National Conference on Databases (MaNCoD) 2014*, Serdang Selangor, Malaysia, 17 September 2014.

13. **Committee Member** *for the Development of e-Learning Guidelines for Malaysian HEIs*, Ministry of Higher Education Malaysia, 2014.
14. **Panel** for *the Research Collaboration Programme*, Faculty of Information Technology and Communication, Universiti Teknikal Malaysia, 4 Nov 2013.
15. **Committee Member** for *the Driving Administrators' Excellence Seminar (Seminar Memacu Kecemerlangan Pentadbir)*, Administrators' Association Universiti Putra Malaysia (PPUPM), 2013.
16. **Chair** for the *Seminar on Value Management Committee*, Administrators' Association Universiti Putra Malaysia (PPUPM), IOI Resort Palm Garden Hotel, Putrajaya, 28 – 29 May 2012.
17. **Member** of the Information Retrieval and Knowledge Management Society/ PECAMP - Persatuan Capaian Maklumat dan Pengurusan Pengetahuan. (Membership Number: L030), 2012.
18. **Coordinator** and **Trainer** for *the 1Citizen Programme: special training program to foster national unity via appropriate use of technology,* developed by Prestariang Systems Sdn Bhd and sponsored by the Ministry of Higher Education Malaysia, organized by the Office of the Deputy Vice Chancellor (Student Affairs and Alumni), since 2011.
19. **Coordinator** and **Trainer** for *the IC CITIZEN Certification: a world class certification program in Netiquette to confirm and verify understanding of ground rules for acceptable use in the digital world today,* Prestariang Systems Sdn Bhd and Computing Core Certification (IC3®) and Microsoft® Office Specialist (MOS), since 2011.
20. **Organizing Committee** for *the National Seminar in Technology and Innovation for Teaching and Learning (SKTIP09),* Academic Development Centre (CADe), UPM, 2009.
21. **Technical Committee** and **Session Chair** for *the National Seminar in Technology and Innovation for Teaching and Learning (SKTIP09),* Hotel Palm Garden IOI Resort, Putrajaya, 28 – 29 April 2009.
22. **Software Expert** for *the Malaysian Military Force Open National Archery Championship,* 2008.
23. **Technical Committee** for *the Teaching and Learning at Higher Education CTLHE07)), Kuala Lumpur*, Malaysia, 2007
24. **Member** of *the SAS User Malaysia*, since 1994.
25. **Member** of *the Parent-Teacher Association of Al-Amin Islamic School, Bangi, Selangor*, since 1999.
26. **Member** of *Malaysia Association of Information Technology Officers (PERJASA),* since 1992.
27. **Member** of *the Harakah Islamiah (HIKMAH), an NGO association based in the Federal Territory and Selangor*, since 1992.
28. **Second Lieutenant (Pegawai Leftenan Muda)** of the Territorial Army Regiment (Rejimen Askar Wataniah), 1987-1989.

III.   UNIVERSITY LEVEL

1. **Panel Member of Assessors** for *the Application of Research Incentive Grant for Teaching and Learning 2018 (Permohonan Geran Insentif Penyelidikan untuk Pengajaran dan Pembelajaran 2018*

(GIPP2018)), Centre for Academic Development (Cade), 8 Oct – 17 Sept 2018.

2. **Chair** of *the UPM Website Technical Committee (Jawatankuasa Teknikal Laman Web UPM)*, Office of the Deputy Vice Chancellor (Academic and International), 1 Dec 2018 – 30 Nov 2019.

3. **Committee Member** for *the Research Grant Application Assessment Committee University Level 2018-2019 (Jawatankuasa Penilaian Permohonan Geran Penyelidikan Peringkat Universiti Tahun 2018-2019)*, Research Management Centre (RMC), 2018-2019.

4. **Committee Member** for *the Universiti Putra Malaysia Risk Management Working Committee (Jawatankuasa Kerja Pengurusan Risiko Universiti Putra Malaysia)*, Office of the Vice Chancellor, 2017.

5. **Main Committee Member** for *the 2017 Students' Council Election of Universiti Putra Malaysia)*, Office of the Vice Chancellor, 2017.

6. **Speaker** for *theTeaching and Assessment Plan for eSMP*, Centre for Academic Development (Cade), 25 August 2016.

7. **Committee Member** for *the e-Learning Committee of Universiti Putra Malaysia*, Office of the Deputy Vice Chancellor (Academic and International), 2016.

8. **Committee Member** for *the Advertisement Signage Committee of Universiti Putra Malaysia*, Office of the Vice Chancellor, 2016.

9. **Committee Member** for *the Income Generation Taskforce Committee of Universiti Putra Malaysia*, Office of the Vice Chancellor, 2016.

10. **Committee Member** for *the Management of Movable Assets Committee*, Office of the Vice Chancellor, Jun 2015 – Mei 2017.

11. **Main Committee Member** for *the Students' Council Election 2016 of Universiti Putra Malaysia*, Office of the Vice Chancellor, 2016.

12. **Member** of *the Intellectual Property Evaluation Committee (Jawatankuasa Penilai Harta Intelek)*, Office of the Deputy Vice Chancellor (Research & Innovation), Jan 2016 – Dec 2017.

13. **Secretary** for *the Information and Communication Technology Committee (Jawatankuasa Teknologi Maklumat dan Komunikasi (JKTMK))*, Office of Vice Chancellor, 2016.

14. **Deputy Chair 2** for *the UPM Website Committee (Jawatankuasa Laman Web UPM)*, Office of the Deputy Vice Chancellor (Academic and International), 1 Nov 2015 – 1 Nov 2017.

15. **Committee Member** of *the Universiti Putra Malaysia Risk Management Working Committee (Jawatankuasa Kerja Pengurusan Risiko Universiti Putra Malaysia)*, Office of the Vice Chancellor, 2015.

16. **Committee Member** of *the Executive Committee for PPUPM Summer Camp (Jawatankuasa Pelaksana bagi Summer Camp PPUPM)*, Administration Association Universiti Putra Malaysia (PPUPM), 2015.

17. **Chapter Writer** for *the Information Resource and Communication Management in UPM's Yearly Report of 2015 (Pengurusan Sumber Maklumat dan Komunikasi dalam Laporan Tahunan Universiti Putra Malaysia 2015)*, Office of the Deputy Vice Chancellor (Academic and International), 2015.

18. **Committee Member** of *the Coordination and Monitoring Committee of the Universiti Putra Malaysia Academic System (Jawatankuasa Penyelarasan dan Pemantauan Sistem Akademik (J2PSA)) Universiti*

Putra Malaysia, Office of the Deputy Vice Chancellor (Academic and International), 2015.

19. **Main Committee Member** for *the Breaking Ceremony and Taraweh Prayer with DYMM Tuanku Chancellor UPM 2015 (Jawatankuasa Induk Majlis Berbuka Puasa dan Solat Taraweh bersama DYMM Tuanku Canselor UPM 2015,* University Islamic Centre, 2015.

20. **Speaker** for *the Introduction to Organizations - Information System and UPM's ICT Policy (Pengenalan kepada Organisasi - Sistem Maklumat dan Polisi ICT UPM), Mind Transformation Programme for Management and Professional (Academic Officer) (Program Transformasi Minda Pengurusan dan Professional (Pegawai Akademik))*, Registrar Office, 12 Jan 2015.

21. **Speaker** for *the Introduction to Organizations - Information System and UPM's ICT Policy (Pengenalan kepada Organisasi - Sistem Maklumat dan Polisi ICT UPM), Mind Transformation Programme for Management and Professional (Academic Officer) (Program Transformasi Minda Pengurusan dan Professional (Pegawai Akademik))*, Registrar Office, 20 March 2015.

22. **Committee Member** of *the Research Working Committee of Universiti Putra Malaysia (Jawatankuasa Kerja Penyelidikan Universiti Putra Malaysia),* Office of the Deputy Vice Chancellor (Research & Innovation), Nov 2014 – Nov 2016.

23. **Committee Member** for *the Special Task Force Committee UPM Teaching Hospital Construction Project (Jawatankuasa Petugas Khas (Task Force) Projek Pembinaan Hospital Pengajaran UPM),* Office of the Vice Chancellor, Nov 2014.

24. **Main Committee Member** of *the Students' Council Election Committee of Universiti Putra Malaysia 2014 (Jawatankuasa Induk Pemilihan Majlis Perwakilan Pelajar Universiti Putra Malaysia),* Office of the Deputy Vice Chancellor (Student Affairs and Alumni), 7 Nov 2014.

25. **Secretary** for *the Management of Information Security Management System (ISMS) ISO/IEC 27001:2013 Universiti Putra Malaysia Committee (Jawatankuasa Pengurusan Sistem Pengurusan Keselamatan Maklumat (ISMS) ISO/IEC 27001:2013 Universiti Putra Malaysia),* Registrar Office, July 2014.

26. **Member** of *the Information Security Management System (ISMS) Management Review Meeting Universiti Putra Malaysia (Mesyuarat Kajian Semula Pengurusan (MKSP) Sistem Pengurusan Keselamatan Maklumat (ISMS) Universiti Putra Malaysia),* Office of the Vice Chancellor, 1 Sept 2014.

27. **Member** of *the Management Review Meeting Universiti Putra Malaysia (Mesyuarat Kajian Semula Pengurusan (MKSP) Universiti Putra Malaysia),* Office of the Vice Chancellor, 30 Oct 2014.

28. **Chair** for *the Quality Assurance Committee of Information Security Management System (ISMS) Universiti Putra Malaysia (Jawatankuasa Jaminan Kualiti (JKJK) Sistem Pengurusan Keselamatan Maklumat (ISMS) Universiti Putra Malaysia),* Office of the Vice Chancellor, Sept 2014.

29. **Speaker** for *the Enterprise Data Architecture Design and Implementation*, InfoComm Development Centre (iDEC) UPM, 25-26 Jun 2014 & 4-5 Jun 2014.
30. **Speaker** for *the e-Content Development: Integrating Media*, Academic Development Centre (CADe), 13 Mac 2014.
31. **Committee Member** for *the eLLPT Construction Committee of the Industry and Community Relations component (Jawatankuasa Pembinaan eLLPT 2015 bagi Komponen Jaringan Industri dan Masyarakat),* Office of the Deputy Vice Chancellor (Industry and Community Relations), 2014.
32. **Committee Member** for *the Intellectual Property Application (Kerja Permohonan Harta Intelek),* Office of the Deputy Vice Chancellor (Research and Innovation), Oct 2013 – Oct 2015.
33. **Committee Member** for *the Director/Deputy Director of Responsible Center Candidate Search Committee under the Office of the Deputy Vice Chancellor (Student Affairs and Alumni) UPM (Jawatankuasa Carian Calon Pengarah/Timbalan Pengarah PTJ di bawah Pejabat Timbalan Naib Canselor (Hal Ehwal Pelajar dan Alumni) UPM),* Office of the Vice Chancellor, 2013.
34. **Committee Member** for *the Director/Deputy Director of Alumni Centre Candidate Search Committee (Jawatankauasa Carian Calon Pengarah/Timbalan Pengarah Pusat Alumni),* Office of the Vice Chancellor, 2012.
35. **Committee Member** for *the Forum Alumni Mentorship Program: Professional and Skills,* Alumni Centre, 2010 and 2012.
36. **Facilitator** for *the Software Project Management Course*, InfoComm Development Centre (iDEC) UPM, 2012.
37. **Facilitator** for *the Microsoft Office Project Course*, InfoComm Development Centre (iDEC) UPM, 2012.
38. **Facilitator** for *the Photoscape Software Course*, Sultan Idris Shah Forestry Education Centre (SISFEC) UPM, 2012.
39. **Speaker** for *the Microsoft Excel for Academia (PDU1211) Course*, Academic Development Centre (CADe) UPM, 2010 & 2011.
40. **Member** of *the Management Review Meeting Universiti Putra Malaysia,* Office of the Vice Chancellor, 2011.
41. **Technical Working Committee** for *Technology in Teaching and Learning (Teknologi Dalam Pengajaran dan Pembelajaran),* Academic Development Centre (CADe) UPM, since 2011.
42. **Speaker** for *the System Documentation Course*, Registrar Office and InfoComm Development Centre (iDEC) UPM, 2011.
43. **Speaker** for *the Development of Competency Assessment Level Course for Supporting Group Grades 1 to 16 General Competency Series 1/2009 (Kursus Pembangunan Kompetensi Penilaian Tahap Kecekapan Kumpulan Sokongan Gred 1 hingga 16 Kompetensi Umum Siri 1/2009)*, Registrar Office and InfoComm Development Centre (iDEC) UPM, 2011.
44. **Facilitator** for *the Graduate Studies Open Day*, Great Hall, 2011.
45. **Facilitator** for *the Writing of the System Development Documentation Series Workshop*, Registrar Office, 2010.

46. **Speaker** for *the Putra LMS – Learning Management System (PDU1214) Course*, Academic Development Centre (CADe) UPM, 2010.
47. **Speaker** for *the User Requirement Analysis Course*, Registrar Office and InfoComm Development Centre (iDEC) UPM, 2010.
48. **Speaker** for *the Understanding Research Methods Course*, Administrators' Association Universiti Putra Malaysia (PPUPM) UPM, 2010.
49. **Speaker** for *the Data Structure of Human Resources Management System (HRMANS) for Human Resource Knowledge System and Integrated Human Resources Management System with other subsystem*, Registrar Office UPM, 2010.
50. **User Acceptance Testing (UAT) Evaluator** for *the e-Pertanika System*, Research Management Centre (RMC) UPM, 2010.
51. **Technical Committee** for *the Strengthening and Upgrading Project of the e-Clinic System University Health Centre (Projek Pemantapan dan Naiktaraf Sistem e-Klinik Pusat Kesihatan Universiti (PKU))*, 2009.
52. **Executive Committee Member** for *the Human Resource Knowledge System (SISMAN),* Registrar Office UPM, 2009.
53. **Technical Committee** for *the Human Resource Knowledge System (SISMAN) Application Development,* Registrar Office UPM UPM, 2009.
54. **Committee Member** for *the Human Resource Knowledge System (SISMAN) Publishing and Innovation,* Registrar Office UPM, 2009.
55. **Committee Member** for *the Human Resource Knowledge System (SISMAN) Accreditation and Quality Assurance,* Registrar Office UPM, 2009.
56. **Committee Member** for *the Human Resource Knowledge System (SISMAN) Training, Worshop and Seminar,* Registrar Office UM, 2009.
57. **Committee Member** for *the Human Resource Knowledge System (SISMAN) Broadcast and Launching,* Registrar Office UPM, 2009.
58. **Committee Member** for *the Human Resource Knowledge System (SISMAN) Feedback abd Benchmarking,* Registrar Office, 2009.
59. **Speaker** for *the Standard Documentation Develop,ent System Course*, Registrar Office and InfoComm Development Centre (iDEC) UPM, 2009.
60. **Speaker** for *the Data Modeling and Relational Database Design for Oracle Course*, Registrar Office and InfoComm Development Centre (iDEC) UPM, 2009.
61. **Speaker** for *the Guided Course of the Assessment Efficiency Level Course Series 2/2008 Grad 1-16 (Kursus Terpandu Penilaian Tahap Kecekapan (PTK) Siri 2/2008 bagi Gred 1-16)*, Registrar Office UPM, 2008.
62. **Committee Member** for *the Student for Information System (SMP) and Data Integration Project*, InfoComm Development Centre (iDEC) UPM, 2008.
63. **Exco** (2003 – 2001, 1996) **and Member** of *the Administrators' Association Universiti Putra Malaysia (Persatuan Pentadbiran Universiti Putra Malaysia (PPUPM)),* Membership No. AP8800126, since 1994.

64. **Internal Auditor** (2001) and **Member** of *the Universiti Putra Malaysia* Cooperation *(Koperasi Universiti Putra Malaysia (KUPUTRA))*, Membership No. 699, since 1999.

65. **Treasurer** (2013 - 2010) and **Member** of *the Women's Association Universiti Putra Malaysia (Persatuan Wanita Universiti Putra Malaysia (PERMATA UPM))*, Membership No. 699, since 2004.

66. **Patron and Member** of *the InfoComm Development Centre (iDEC) Welfare and Recreation Club (Kelab Kebajikan Dan Rekreasi iDEC (KRiDEC))*, registered under the ROS (Registry of Societies Malaysia) with registration number PPM-034-10-02032016, since 2017.

67. **President** (2016-2014), **Treasurer** (2011-2010), **Auditor** (2013-2012) and **Member** of *the Welfare and Social Faculty of Computer Science and Information Technology UPM Club (Kelab Kebajikan dan Sosial Fakulti Sains Komputer dan Teknologi Maklumat UPM (KKS FSKTM UPM))*, registered under the ROS (Registry of Societies Malaysia) with registration number PPM-014-10-10102014, since 2009.

68. **Vice President** (1999, 1995), **Treasurer** (2001, 1998, 1991), **Auditor** (2004, 2002, 1996, 1992) and **Member** of *the Welfare and Sports Computer Centre Club (Kelab Kebajikan dan Sukan Pusat Komputer (KKSPK))*, UPM, since 2008 – 1989.

IV.   FACULTY LEVEL

1. **Visiting Lecturer** for *the Industrial Internship Program 2019*, 1 Feb – 18 July 2019; *Industrial Internship Program 2018*, 1 Feb – 18 July 2018; *Industrial Internship Program 2017*, 1 Feb – 18 July 2017; *Industrial Internship Program 2016*, 18 Jan – 1 July 2016.

2. **Invigilator** for *the Final Examination*, Semester I 2018/2019, II 2017/2018, I 2017/2018, II 2016/2017, I 2016/2017, I 2015/2016, II 2014/2015, II 2013/2014, I 2013/2014, II 2012/2013, I 2012/2013.

3. **Committee Member** for *the Assessment Report on Improvement and Research Project Final Report Committee (Jawatankuasa Penilaian Laporan Kemajuan Projek dan Laporan Akhir Projek Penyelidikan)*, 2019.

4. **Committee Member** for the Final Examination Question Paper and Schema Assessment Committee *(Jawatankuasa Penyemak Soalan dan Skema Jawapan Peperiksaan Akhir)*, Semester I 2018/2019, II 2017/2018, I 2017/2018, II 2016/2017, I 2016/2017, I 2015/2016, II 2014/2015, I 2014/2015, II 2013/2014, I 2013/2014, II 2012/2013.

5. **Assessor** for *the Comprehensive Examination (CE) Question Paper for Graduate Studies (Penilai bagi Semakan Soalan dan Kertas Jawapan Peperiksaan Komprehensif (CE) Pengajian Siswazah)*, Semester II 2017/2018, II 2016/2017.

6. **Jury** for *the Computer Sciences Postgraduate Colloqium 2018*, Computer Science Week 2018, 2-4 May 2018.

7. **Facilitator and Committee Member** for the *Care for Hunger Islamic Relief Malaysia* Fund Generation Committee *(Jawatankuasa Penggerak Program Penjanaan Dana Care for Hunger Islamic Relief Malaysia)*, in collaboration with the Welfare and Social Club of the

Faculty of Computer Science and Information Technology UPM (KKS FSKTM UPM), 8-10 Dec 2015.

8. **Committee Member** of *the Research Committee of the Faculty of Computer Science and Information Technology (CSiT), 2015.*

9. **Group Leader** for *the Database Technologies and Applications (DbTA) Research Group of the Faculty of Computer Science and Information Technology (CSiT), 2015.*

10. **Book Writer** of the Case Study Book (*Buku Kajian Kes),* by Center for Academic Development (CADe) UPM and the Institute of Higher Education Academic Leadership (AKEPT) Ministry of Education Malaysia*, 2013.*

11. **Assessor** for *the Presentation Session of the Research Progress Report,* since 2012.

12. **Assessor** for *the Master Proposal and Final Presentation*, since 2012.

13. **Facilitator** for *the Preparation of Copyright Application Documents Workshop (Bengkel Penyediaan Dokumen Permohonan Hak Cipta)*, 2011.

14. **Assigned to** *the Agricultural Expo and 34th UPM Convocation*, 2011.

15. **Demonstrator** for *updating Data of Human Resource Knowledge System (SISMAN),* 2010.

16. **Speaker,** for *the Data Modelling and Database Application Development Intensive Course (Kursus Intensif Pemodelan Data dan Pembangunan Aplikasi Pangkalan Data)*, 2009.

17. **Assessor,** for *the Industrial Training of the Faculty*, since 2009.

18. **Assessor,** for *the PhD Proposal*, since 2009.

19. **Assessor,** for the Final Year Project Presentation, since 2009.

20. **Member** of *the Alumni Faculty Chapter Faculty of Computer Science and Information Technology (CSiT)*, 2010.

21. **Treasurer** for *the Aidil Fitri Celebration Program (Program Sambutan Lebaran Aidil Fitri 1431H-2010)*, 2010.

V. DEPARTMENT LEVEL

1. **Mentor** for the Presentation of *Innovative Project Idea on Data Mining for Data Mining course (SSK4604),* Department of Computer Science, 2015.

2. **Assessor** for *the Final Year Project SSK4999 (Penilai Projek Ilmiah Tahun Akhir SSK4999),* Department of Computer Science, Semester I 2016/2017, II 2015/2016, II 2013/2014, II 2014/2015, II 2012/2013.

3. **Supervisor** for *the Final Year Project SSK4999 (Penyelia Projek Ilmiah Tahun Akhir SSK4999),* Department of Computer Science, 2019, 2015, 2014, 2013, 2012, 2010, 2009.

4. **Committee Member** for *the Innovation Program Committee (Jawatankuasa Program Semarak Inovasi)*, Department of Computer Science, 2015.

5. **Committee Member** for *the Overseas Appraiser Visit Program Committee (Jawatankuasa Pelaksana Program Lawatan Penilai Luar) Profesor Dr, Ajith Abraham from Faculty of Electrical Engineering and Computer Science, VSB-Technick Univerzita Ostrava, Czech Republic*, Feb 2013.

6. **Academic Advisor** for *A Day with Academic Advisor*, Department of Computer Science, 6 Oct 2012, 18 November 2011 and 14 Apr 2011.
7. **Committee Member** for *the Computer Science Department Seminar and Training,* since 2011.
8. **Expert Reference** for *the Database System Sub Area in Research and Education*, since 2011.
9. **Vetter** for *the Final Examination Question Paper Assessment Committee*, Department of Computer Science, since 2009.
10. **Coordinator** and **Moderator** for *courses on Database Administration (SSK4403), Database System (SSK4401) and Database Application Development (SAK3408)*, Department of Computer Science.

INVOLVEMENT IN STUDENTS' DEVELOPMENT

I.   RESIDENTIAL COLLEGE LEVEL

1. **College Principal** for *Fifteenth Residential College (Kolej Kediaman Limabelas (K15), UPM*, 2010-2012.
2. **Resident Fellow** for *Block Mahsuri, Fourth Residential College (Kolej Kediaman Keempat (KK4)), UPM*, 1988-1991.

II.   STUDENT DEVELOPMENT

1. **Program Leader and Mentor** for *the annual 50 students HCNS Certification Training Program (Program Latihan Pensijilan HCNA 50 Pelajar Setahun Selama 5 Tahun)*, Huawei Technologies (M) Sdn Bhd & Nurkamal Network Sdn Bhd, Budget RM212,000.00, 2016.
2. **Advisor and Mentor** for *the Johor Students Ambassador Program (Program Duta Jauhar Mahasiswa Johor Prihatin)*, Johor Student Foundation Malaysia (Yayasan Pelajar Johor), 2015.
3. **Activity Advisor** for *the Reception Event of Ekspresi Takzim (Majlis Resepsi Puncak Ekspresi Takzim (RESPECT))*, UPM Johoreans Welfare Association (Persatuan Kebajikan Anak-anak Negeri Johor UPM (PERKASA JOHOR UPM)), 2015.
4. **Activity Advisor** for *the Career Programme in Information and Communication Technology (ICT) (Program Kerjaya dalam Bidang Teknologi Maklumat dan Komunikasi (ICT))*, MARA Junior Science College Tun Ghafar Baba (Maktab Rendah Sains MARA (MRSM) Tun Ghafar Baba), Jasin, Melaka, 10 Mac 2014.
5. **Activity Advisor** for *the Nature Unite Day Perkasa Johor 2014 Program, Event of Ekspresi Takzim (Majlis Resepsi Puncak Ekspresi Takzim (RESPECT))*, UPM Johoreans Welfare Association (Persatuan Kebajikan Anak-anak Negeri Johor UPM (PERKASA JOHOR UPM)), 23 Feb 2014.
6. **Accompanying Officer** for *the Johor Student Ambassador Series 2 (Duta Hauhar Mahasiswa Johor Prihatin Siri 2)*, Johor State Government, at Universiti Tun Hussein Onn (UTHM), Johor 28-30 Jan 2014

7. **Advisor** for *the High School Programme – Symposium on Applied Engineering and Science 2015 (SAES2015),* collaboration with Kyushu Institute of Technology (KYUTECH) Japan, 21 Nov 2015.

8. **Mentor** for *the Alumni Mentorship Program 2011*, organized by Alumni Centre UPM, 2011.

9. **Facilitator** for *the JavaPages Server (JSP) Training Course*, organized by Faculty of Computer Science and Information Technology (CSiT), UPM, 6 February 2010.

10. **Mentor** for *the Alumni Mentorship Program 2010,* organized by Alumni Centre UPM, 13 January 2010.

11. **Facilitator** for *the Data Modeling Training Course,* sponsored by enCoral Sdn Bhd, UPM, 26 March 2009.

12. **Facilitator** for *the JavaPages Server (JSP) Training Course,* organized by Registrar Office, UPM, 14 - 15 February 2009.

13. **Academic Advisor** for *the Bachelor of Computer Science (Computer System) students*, 2009-2019.

14. **Invited Guest** for *the Youth Club with IT Angkasapuri RTM Youth Club slot (Kelab Remaja bersama IT untuk slot Kelab Remaja Angkasapuri RTM)*, Angkasapuri RTM, Malaysia, 1998.

15. **Facilitator** for *the Nury Bangi Final Year Children Project,* Nury Bangi Kindergarten, 1998.

16. **Facilitator** for *the Facilitator Orientation Week Course for Fourth College Students*, Fourth Residential College, UPM, 1991.

17. **Facilitator** for *the Jelapang III Leadership Course for Fourth College Students (Kursus Kepimpinan Jelapang III untuk pelajar-pelajar),* Fourth College Residence, UPM, 1991.

18. **Accompanying Officer** for *the Study Tour to Tahialang Program (Program Lawatan Sambil Belajar ke Thailand),* Fourth Residential College, UPM, 1990.

19. **Facilitator** for *the Leadership Course for Fourth College Students (Kursus Kepimpinan untuk pelajar-pelajar Kolej Kediaman Ke 4),* at Cameron Highlands Pahang, Fourth College Residence, UPM, 1990.

COMMUNITY INVOLVEMENT

1. *Internet of Things (IoT) Sharing Program iDEC@Community Putra® Bakti UPM 2019 collaboration with the Fifth Residential College UPM,* at Pondok Hamlatul Quran, Kg Sawah Sempadan Tanjong Karang, Selangor, 19-21 April 2019.

2. *Sports Development Program iDEC@Charity Fun Run Makna Putra® Bakti UPM, Corporate Social Responsibility (CSR) iDEC activities in a strategic collaboration* with National Cancer Council (MAKNA) Malaysia together with industries and gonernment agency, 11 Nov 2018.

3. *Jom Gegaria ICT Program iDEC@Community Putra® Bakti UPM 2018, Corporate Social Responsibility (CSR) activities in the form of knowledge sharing and community work bringing together industry and government agencies in collaboration with the Faculty of Computer Science and Information Technology (CSiT) in celebration of the 20th year of CSIT, 23–25 October 2018.*

4. *Spelling Bee Program iDEC@Carnival ICT Putra® Bakti UPM 2018, in collaboration with Time Dot Com Sdn Bhd, Sekolah Kebangsaan Serdang Selangor and New Straits Time Press (M) Berhad (NSTP), 23–25 October 2018.*
5. *Charity Program - Monetary Contribution for UPM's Underprivileged Students in lieu of New Clothes for Eid Program with iDEC @ Putra Bakti 2017, in collaboration with Time Dot Com Sdn Bhd, Fifth College Student Volunteers (K5), UPM, and iDEC Charity and Recreational Club (KRiDEC) UPM, 3 June 2017.*
6. *JOM BEKPES (Let's Have Breakfast) Program 2016 for the Homeless with NGO partner (Onn Jaafar Institute) at Kuala Lumpur Krash Pad, 346, Jalan Tuanku Abdul Rahman, 50100, Kuala Lumpur, 21 Sept 2016.*
7. *CSR Community Program at Aboriginal Community Village and Kuala Tahan, Pahang National Park with Industrial Partner (Time Dot Com). CSR program with local community, contributing UPM plants for tree planting, 19-21 Aug 2016.*
8. *Community Program with Jalinan Kasih Orphanage Krubong Melaka. Charity Program New Clothes for Eid and* Ihya' Ramadhan Iftar Jama'ie KRiDEC with Orphans from Jalinan Kasih Krubong Melaka, 10 June 2016.
9. *Peer Tutoring Program in Collaboration with Islamic Relief Malaysia, 8 Dec 2014 – 9 March 2015.*
10. *Foster School Program (Program Sekolah Angkat), ICT UPM Cluster School with Seri Puteri School, Cyberjaya,* organized by Department of Computer Science, 29 June 2011.
11. *Charity Work Program (Program Kerja Amal), with Nur Hikmah Orphanage, Kajang Selangor*, organized by Department of Computer Science, 25 June 2011.
12. *Students Gaining Strength by Serving Others Program (Program Semai Bakti Mahasiswa Perkasa) 2011,* with community of Parit Raja Batu Pahat, Johor and Fifteenth Residential College, UPM, 13 – 16 May 2011.
13. *Computer Literacy Training Course for Johor State Underprivileged Students,* sponsored by BPM International Sdn Bhd, 1998.

WORKSHOPS / TRAININGS ATTENDED

2021

1. Training on Fundamentals of Enterprise Architecture, organized by Institut Tadbiran Awam Negara Kampus Utama Bukit Kiara, Online, 11 Aug 2021.
2. Workshop on Introduction to Data Science using Python Course, organized by iDEC UPM, at Exa Training Room, Infocomm Development Centre (iDEC), Putra InfoPort UPM, 6 Sept 2021.
3. Workshop on Big Data Technology Course, organized by iDEC UPM, at Exa Training Room, Infocomm Development Centre (iDEC), Putra InfoPort UPM, 7 Sept 2021.

4. Workshop on Introduction to Enterprise Architecture for Big Data Course, organized by iDEC UPM, at Exa Training Room, Infocomm Development Centre (iDEC), Putra InfoPort UPM, 7 Sept 2021.

2020

5. Participant for i-Putra Webinar Series 3.0: Eramus+ Grant 101: Sharing Experience organized by Putra International Centre (i-Putra), UPM, Online, 7 December.
6. Participant for Training on PUTRABLAST V3.8 (Siri 7 - FP & FBMK) organized by Academic Development Centre (CADe) UPM, at Exa Training Room, Infocomm Development Centre (iDEC), Putra InfoPort UPM, 16 January.

2019

1. Participant for Training on Blockchain and Smart Contrac Technologiest: An Astonishing Kick-Start to Blockchain and Smart Contract Technologies organized by iExploTech (SA0428744-K), at a Training Room, Infocomm Development Centre (iDEC), Putra InfoPort UPM, 24 Nov–4 December.
2. Participant for Cloudera Administration for Apache Hadoop organized by Quandatics Academy Sdn Bhd (1236812-W) at Exa Training Room, Infocomm Development Centre (iDEC), Putra InfoPort UPM, 8-11 October.
3. Participant for Seminar Perjanjian Teknologi Maklumat/ Information Technology Agreement Seminar organized by Azmi Law Academy at Tingkat 4, Menara Keck Seng, 203, Jalan Bukit Bintang, 55100, Kuala Lumpur, 27 March.

2017

1. Participant for *Tableau for Teaching Workshop* organized by Talent Development, Data Economy, Malaysia Digital Economy Corporation Sdn Bhd (MDEC), at ASEAN Data Analytics eXange (ADAX) Level 27 Tower B Vertical Business Suites, Avenue 3 Bangsar, 14 June.

2015

1. Participant for *Reach & Remind Friends of the Industry Seminar & Dialogue 2015*, organized by Malaysian Palm Oil Council (MPOC), at Putrajaya Marriott Hotel, 12 February.
2. Participant for *Research Collaboration on Big Data – Faculty of Agriculture and Database Technologies and Applications (DbTA) CSiT UPM Research Group Workshop* organized by Research Management Centre (RMC) UPM, at Golf Meeting Room UPM, 7 February.
3. Participant of *Knowledge Sharing Session DNDC Modeling*, organized by *Database Technologies and Applications (DbTA) CSiT UPM Research Group*, at Faculty of Agriculture Meeting Room, 4 February.

4. Participant of *Technician FT17 Workshop* (*Bengkel Juruteknik FT17)*, organized by Infocomm Development Centre (iDEC) UPM, at Al-Farabi Seminar Room, Faculty of Human Ecology UPM, 21 January.
5. Participant of *UPM KPI Performance Appraisal for Fourth Quarter of 2014 Workshop* (*Bengkel Penilaian Pencapaian KPI Bagi Suku Keempat Tahun 2014 UPM)*, organized by Corporate Strategy and Communications Office (CoSComm), at Dewan Senat UPM, 13 January.

2014

1. Participant of *Creativity Index (CI) Usage for RMK-11 UPM Project Workshop (Bengkel Penggunaan Creativiti Index (CI) untuk projek RMK-11 UPM)*, organized by Development Office and Asset Management (PPPA), at Agriculture Hall (Dewan Pertanian), Faculty of Agriculture UPM, 30 – 31 December.
2. Participant of *Infocomm Development Centre Direction Workshop* (*Bengkel Halatuju Pusat Pembangunan dan Komunikasi UPM)*, organized by iDEC, at Hotel Seri Costa, Melaka, 6 - 8 December.
3. Participant of *Infocomm Development Centre Direction Pre-Workshop* (*Pra Bengkel Halatuju Pusat Pembangunan dan Komunikasi UPM)*, organized by iDEC, at Putra Learning Space UPM, 5 December.
4. Participant of *Big Data for Palm Oil Workshop*, organized by Research Management Centre (RMC) UPM, at Al-Farabi Seminar Room, Faculty of Human Ecology UPM, 21 August.
5. Participant of *Hadoop (2.0) Development Training*, organized by Knowledgehut, at Charleston Management Centre Sdn Bhd Kuala Lumpur, 6 - 8 August.
6. Participant of *Python and Database Programing*, organized by PyCademy Learning Centre, at Seminar Room Bock C, Faculty of Computer Science and Information Technology (CSiT) UPM, UPM, 9 - 11 July
7. Participant of *Big Data Workshop,* organized by Research Management Centre (RMC) UPM, at Seminar Room, Research Management Centre UPM, 7 July.
8. Participant of *Winning Research Proposal Writing Workshop*, organized by Department of Computer Science, at Seminar Room Block A, Faculty of Computer Science and Information Technology (CSiT) UPM, 16 May
9. Participant of *Oil Palm Big Data – UPM Initiative Workshop,* organized by *Research Group of Database Technologies and Applications (DbTA) CSiT UPM*, at Meeting Room Block C, Faculty of Computer Science and Information Technology (CSiT) UPM, 16 April.
10. Participant of *e-Learning Culture to strengthen National e-Learning Policy Workshop (DePAN))*, organized by Center for Academic Development (CADe) UPM, sponsored by Higher Education Department (Jabatan Pengajian Tinggi) Ministry of Education Malaysia, 1 Mei 2015 – 30 April 2015.
11. Meeting Room CADe, 20 Mac.
12. Participant of *Roadshow on Ethics for Research Involving Human Subjects (Jerayawara Jawatankuasa Etika untuk Penyelidikan*

Melibatkan Manusia), organized by Research Management Centre (RMC) UPM, at Faculty of Modern Languages and Communication UPM, 18 March.

13. Participant of *e-Learning Culture to strengthen National e-Learning Policy (Bengkel Pembudayaan e-Pembelajaran bagi Memantapkan Dasar e-Pembelajaran Negara (DePAN))*, organized by Center for Academic Development (CADe) UPM, at Residence UNITEN, 8 Feb.

14. Participant for *Learning Outcome Workshop*, organized by Faculty of Computer Science and Information Technology (CSiT) UPM, at Palm Garden Putrajaya, 10 January.

2013

1. Participant for *Professional Slide Design Using MS Power Point Workshop*, organized by the 4th International Conference on Computing and Informatics (ICOCI2013), in Kuching, Sarawak, 28 - 30 August.

2. Participant of *Computer Science Curriculum Review Workshop (Bengkel Semakan Kurikulum Bacelor Sains Komputer)*, organized by Faculty of Computer Science and Information Technology (CSiT) UPM, at Bilik Kuliah Akademik Pusat UPM, 16-18 July.

3. Participant of *Student Centered Learning (SCL) Workshop (Case Study Revision) (Bengkel SCL (Pemurnian Kajian Kes))*, organized by Faculty of Computer Science and Information Technology (CSiT) UPM, at Bangi Golf Resort, 4 July.

4. Participant of *Training of Trainers (ToT) Entrepreneurship Mind Lab: Teaching Workforce (MGM3180) (ToT Lab Minda Keusahawanan: Tenaga Pengajar (MGM3180))*, organized by Centre of Entrepreneurial Development & Graduate Marketability Faculty of Economics and Management UPM, at Bangi Golf Resort, 2-3 July.

5. Participant at *Android Application Development (2nd Series) Workshop (Bengkel Pembangunan Aplikasi Android (Siri 2))*, organized by Mobile System Unit (MSU) CSiT, at Lecture Room 1, Faculty of Computer Science and Information Technology (CSiT) UPM, 1 July.

6. Participant at *Web 2.0 Technology Development Module Workshop (Bengkel Pembangunan Modul Teknologi Web 2.0)*, organized by Research Group of Teaching Web Technology Physic Department, Faculty of Science UPM, at D'Nelayan Beach Resort, Kg Masjid Tuang, Masjid Tanah Melaka, 26 – 28 Jun.

7. Participant of *Matriculation Exam Questions Vetting Workshop for (Bengkel Pentaksiran Soalan Peperiksaan Semester Program Matrikulasi (PSPM))*, organized by Matriculation Division Ministry of Education Malaysia, at Hotel Residence UNITEN Bangi, 4 – 7 June.

8. Participant at the *Serdang Heritage Forum: Driving the 'With Knowledge We Serve' Legacy of Excellence (Forum Serdang Heritage: Memacu Legasi Kegemilangan Berilmu Berbakti)*, organized by IBM, at Level 15 Persiaran Bandar Utama, Kuala Lumpur, 21 May.

9. Participant at *DB2 10 for LUNUX, UNIX and Windows Bootcamp*, organized by IBM, at Level 15 Persiaran Bandar Utama, Kuala Lumpur, 14 - 17 May.

10. Participant at *Briefing Session on RDC&E,* organized by Department of Computer Science CSiT, at Faculty of Biotechnology and Biomolecule Science Auditorium, UPM, 10 May.
11. Participant at *Seminar: "Data + Knowledge Representations = Intelligent Systems",* organized by Department of Computer Science CSiT, at Dewan Kuliah Utama, Faculty of Computer Science and Information Technology (CSiT) UPM, 7 May.
12. Participant at *Development of Question Item Workshop (Bengkel Pembinaan Item Soalan),* organized by Center for Academic Development (CADe) UPM, at Bilik Seminar Al-Farabi, Faculty of Human Ecology UPM, 30 April.
13. Participant at *SCL Approaches Workshop: Mind Mapping,* organized by Center for Academic Development (CADe) UPM, at Exa Lab, Putra Infoport iDEC UPM, Putra Infoport iDEC UPM, 23 April.
14. Participant at *Student Centred Learning (SCL) Series 1 (Case Study) Workshop,* organized by Faculty of Computer Science and Information Technology (CSiT) UPM, at Hotel Palm Garden, Putrajaya, 11 – 12 April.
15. Participant at *An Introduction to Structural Equation Modeling (SEM) Using AMOS Workshop*, organized by Center for Academic Development (CADe) UPM, at Cyber 4, Faculty of Educational Studies UPM, 4 March.
16. Participant at *Approaches to Using Statistics in Research Workshop (Bengkel Kaedah Penggunaan Statistik Dalam Penyelidikan)*, organized by Center for Academic Development (CADe) UPM, at Institute of Social Science Studies (IPSAS) Lab UPM, 7 – 8 February.
17. Participant at *Ministry of Higher Education Research Grant Briefing (Taklimat Geran Penyelidikan Kementerian Pengajian Tinggi (KPT))*, organized by Deputy Dean's Office (Research and Gradute Studies) CSiT UPM, at Dewan Kuliah Utama, Faculty of Computer Science and Information Technology (CSiT) UPM, 5 February.
18. Participant at *Development of Student Centered Learning (SCL) Implementation Workshop (Bengkel Pembangunan Pelaksanaan Pembelajaran Berpusatkan Pelajar (SCL)),* organized by Center for Academic Development (CADe) UPM, at Hotel Avillion Admiral Cove, Port Dickson, Negeri Sembilan, 21 – 22 January.

2012

1. Participant at *UPM Successor Plan Briefing (Taklimat Pelan Penggantian UPM)*, organized by Registrar Office UPM, at Faculty of Engineering, UPM, 3 August.
2. Participant at *Converting Research Report to Book Workshop (Bengkel Mengolah Laporan Penyelidikan kepada Buku)*, organized by Publisher UPM, at Putrajaya Marriott Hotel, Putra Jaya, 11 – 13 July.
3. Participant at *SRI's Venture Plan Essentials Boot Camp*, organized by Stanford Research Institute (SRI) International, sponsored by Research Management Centre (RMC) UPM, at Marriott Hotel, Putra Jaya, 18 – 22 June.

4. Participant at *SRI's Five Disciplines of Innovation Workshop*, organized by SRI International, sponsored by Research Management Centre (RMC) UPM, at Faculty of Engineering UPM, 14 – 15 June.
5. Participant at *National Cardiothoracic Registry Workshop*, organized by Research Group of Computer Graphics, Vision and Visualization CSiT UPM and National Heart Association of Malaysia, at Marriott Hotel, Putrajaya, 5 October.

2011

1. Participant at *Development of e-Content Transfer of Technology (ToT) - Articulate (Kursus Pembangunan e-Kandungan (ToT) – Articulate)*, organized by Center for Academic Development (CADe) UPM, at Cyber Lab, Faculty of Computer Science and Information Technology (CSiT) UPM, 27 – 28 July.
2. Participant at *Development of e-Content Transfer of Technology (ToT) - Raptivity (Kursus Pembangunan e-Kandungan (ToT) – Raptivity)*, organized by Center for Academic Development (CADe) UPM, at Cyber Lab, Faculty of Computer Science and Information Technology (CSiT) UPM, 26 July.
3. Participant at *Development of e-Content Transfer of Technology (ToT) - Camtasia (Kursus Pembangunan e-Kandungan (ToT)) - Camtasia*, organized by Center for Academic Development (CADe) UPM, at Cyber Lab, Faculty of Computer Science and Information Technology (CSiT) UPM, 25 July.
6. Participant at *Faculty of Computer Science and Information Technology Strategic Plan Workshop (Bengkel Pelan Strategik Fakulti Sains Komputer dan Teknologi Maklumat)*, at Selesa Hillhomes, Bukit Tinggi, Pahang, 4 – 6 July.
4. Organizer and Facilitator at *Preparation of Copyright Documentation Workshop (Bengkel Penyediaan Dokumen Hak Cipta*, organized by Software Development Unit CSiT, at Seminar Room, Block A, Faculty of Computer Science and Information Technology (CSiT) UPM, 11 May.
5. Participant at *Patent Workshop (Bengkel Paten)*, organized by Department of Computer Science, at Cyber Lab, Faculty of Computer Science and Information Technology (CSiT) UPM, 21 March.
6. Participant at the *Effective Supervision for Postgraduates Course (Kursus Penyeliaan Berkesan Pasca Siswazah)*, organized by Center for Academic Development (CADe) UPM, at University Health Centre, UPM, 25 – 27 January.

2010

1. Participant at *Early Briefing on Ministry of Higher Education Research Grant under the 10th Malaysia Plan (Taklimat Awal Geran Penyelidikan Kementerian Pengajian Tinggi di Bawah RMK10)*, organized by Research Management Centre (RMC) UPM, at Dewan Kejuruteraan, Faculty of Engineering UPM, 31 November.

2. Participant at *DB2® 9.7 Academic Workshop,* organized by IBM Malaysia, at Multimedia Lab, Faculty of Computer Science and Information Technology (CSiT) UPM, 4 - 6 October.
3. Participant at *Checking Originality (TURNITIN) Course (Kursus Penyemakan Keaslian (TURNITIN)),* organized by Center for Academic Development (CADe) UPM, at Exa Lab, Putra Infoport iDEC UPM, Infocomm Development Centre (iDEC) UPM, 15 July.
4. Participant at *Writing and Publishing for ISI Impact Factor Journal Workshop*, organized by Deputy Dean's Office (Research and Gradute Studies) CSiT UPM, at Dewan Kuliah, Faculty of Computer Science and Information Technology (CSiT) UPM, 25 May.
5. Participant at *Oracle 10g: Data Warehousing Fundamentals Ed1,* organized by Oracle University, at Kuala Lumpur, 3 – 7 May.
6. Participant at *Putra Learning Management System (PutraLMS) Course (Kursus PutraLMS),* organized by Center for Academic Development (CADe) UPM, at Cyber Lab 1 Sanggar Bahasa, Faculty of Modern Languages and Communication UPM, 23 Febuary.
7. Participant at *Bibliography Management (REFWORKS) Course (Kursus Pengurusan Bibliografi (REFWORKS)),* organized by Center for Academic Development (CADe) UPM, at Exa Lab, Putra Infoport iDEC UPM, Infocomm Development Centre (iDEC) UPM, 10 Febuary.
8. Participant at *User Acceptance Test for e-Pertanika System second session,* organized by Research Management Centre (RMC) UPM, at Exa Lab, Putra Infoport iDEC UPM, Infocomm Development Centre (iDEC) UPM, 21 January.
9. Participant at *Strengthening Learning Outcomes and Soft Skills (LOKI),* organized by Faculty of Computer Science and Information Technology (CSiT) UPM, at Dewan Kuliah Utama, CSiT UPM, 15 January.

2009

1. Participant at the *User Acceptance Test for e-Pertanika System,* organized by Research Management Centre (RMC) UPM, at Exa Lab, Putra Infoport iDEC UPM, 30 December.
2. Participant at *Java Programming Language,* organized by Guidance View Sdn. Bhd., sponsored by Multimedia Development Corporation (MDeC), at Perdana Lab, Faculty of Computer Science and Information Technology (CSiT) UPM, 11, 14 – 17 December.
3. Participant at *Fundamentals of the Java Programming Language,* organized by Multimedia Development Corporation (MDeC), at Perdana Lab, Faculty of Computer Science and Information Technology (CSiT) UPM, 7 - 10 December.
4. Participant at *Writing and Publishing for International Journals* organized by Mediums Books and Consultancy, at Kuching Sarawak, 8 December.
5. Participant at *Research and Development Management,* organized by Malaysia Nuclear Agency, at Bayview City Hotel Penang, 4 – 6 November.
6. Participant at *Office Stress Management Course (Kursus Pengurusan Stres di Tempat Kerja),* organized by Faculty of Computer Science

and Information Technology (CSiT) UPM, at Dewan Kuliah Utama, CSiT UPM, 18 August.

7. Participant at *the Writing Mind,* organized by Training Section, Registrar Office UPM, 12 August.

8. Participant at *the Writing Cases,* organized by Intan-Harvard Club Malaysia, at Intan Bukit Kiara, Kuala Lumpur, 20 – 24 July.

9. Participant at *LaTex Workshop*, organized by Department of Computer Science, at Seminar Room Block A, Faculty of Computer Science and Information Technology (CSiT) UPM, 10 July.

10. Participant at *Academic Advisor Seminar (Seminar Penasihat Akademik)*, organized by Deputy Dean's Office (Academic, Student Affairs and Alumni) CSiT UPM, at Seminar Room Block A, Faculty of Computer Science and Information Technology (CSiT) UPM, 22 June.

11. Participant at *JAVA EE Fundamental Training for Lecturers,* organized by Guidance View Sdn. Bhd., at Guidance View Training Centre, Mid Valley, Kuala Lumpur, 15-19 June.

12. Participant at *Basic Teaching and Learning Course (Kursus Asas Pengajaran dan Pembelajaran Universiti Putra Malaysia),* organized by Center for Academic Development (CADe) UPM, at Faculty of Human Ecology, UPM, 26 – 28 May.

13. Participant at *Oracle Database 11g Administrator Certified Associate (OCA) Certification Programme*, organized by Prestariang Sdn. Bhd, sponsored by Ministry of Higher Education, at Database Lab, Faculty Computer Science and Information Technology, UPM, 27 April - 15 May.

14. Participant at *Oracle Database 11g: SQL Fundamentals I*, organized by Prestariang Sdn. Bhd, sponsored by Ministry of Higher Education, at Database Lab, Faculty of Computer Science and Information Technology, UPM, 27 April - 15 May.

15. Participant at *Oracle Database 11g: Administration Workshop I*, organized by Prestariang Sdn. Bhd, sponsored by Ministry of Higher Education, at Database Lab, Faculty Computer Science and Information Technology, UPM, 27 April - 15 May.

16. Participant at *Technology Talk (Technology + Pedagogy) (Ceramah Teknogogi (Teknologi + Pedagogi)). Putra Satria 2009*, organized by Center for Academic Development (CADe) UPM, at Dewan Persidangan Pusat Pendidikan Luar UPM, 21 April.

17. Participant at *Innovation in Teaching and Learning for Higher Education. Putra Satria 2009*, organized by Center for Academic Development (CADe) UPM, at Hotel Concord, Kuala Lumpur, 15 April.

18. Participant at the *Effective Questionnaire Design using SPSS Workshop. Putra Satria 2009,* organized by Center for Academic Development (CADe) UPM, at Terra I Lab, Putra Infoport iDEC UPM, 7 April.

19. Participant at *New Academic Officers & Launching of Putra Satria Seminar, organized by Center for Academic Development* (CADe) UPM, at Dewan Persidangan Pusat Pendidikan Luar UPM, 6 April.

20. Participant at the *Sustaining High Performance Organizational Culture Program (Program Melestari Budaya Organisasi Prestasi Tinggi),* organized by Registrar Office UPM, at Eagle Ranch Resort, Port Dickson, 6 – 8 Mac.

21. Participant at *Multimedia Development for Effective Presentation Course (Kursus Pembangunan Multimedia untuk Persembahan yang Berkesan)*, organized by Center for Academic Development (CADe) UPM, at Exa Lab, Putra Infoport iDEC UPM, 18 – 19 Febuary.

2008

1. Participant at *Book Writing and Publishing Workshop (Bengkel Penulisan dan Penerbitan Buku)*, organized by Deputy Dean's Office (Research and Gradute Studies) CSiT UPM, at Seminar Room Block A, Faculty of Computer Science and Information Technology (CSiT) UPM, 15 – 17 December.
2. Participant at *RASCH Measurement Model Workshop (Bengkel Model Pengukuran RASCH)*, organized by Deputy Dean's Office (Research and Gradute Studies) CSiT UPM, at Cyber Lab, Faculty of Computer Science and Information Technology (CSiT) UPM, 3 - 4 December.

2007

1. Participant at *Fifth Malaysia Semi Government Financial Management Goals Workshop (Bengkel Halatuju Pengurusan Kewangan Badan Berkanun Malaysia ke-V)*, organized by Administrators' Association UPM, at Kota Kinabalu, Sabah, 5 – 6 November.
2. Participant at *Generating Human Stability using 10Q's Methodology Course (Kursus Menjana Insan Seimbang Melalui Kaedah 10Q's)*, organized by Administration Association UPM, at Kompleks Konvensyen UPM, 22 -23 October.

ADMINISTRATIVE POST

I worked as a System Analyst with the Computer Centre at UPM from 20/12/1988 to 10/6/1991 as a contract staff (2 years 6 months), and was appointed a permanent staff as System Analyst from 11/6/1991 untill 3/11/2008 (17 years 5 months), with the following responsibilities:

No.	Administrative Post	Projects	Year
1.	Head of Database and Data Integration Management Unit	1. Planning, managing and administering the unit of management database and data integration. Responsible for the management of it sources which include the management and the development of human resource, financial and the unit. 2. Planning, developing, constructing and implementing oracle database for university main application. 3. Planning, developing and implementing application for *Sistem Ilmu Sumber Manusia (SISMAN)* (Human Resources Knowledge System) to ensure the data quality for human resource data at UPM Registration Office. 4. Planning, developing and implementing application of data retrieval for university main application and outsource agent .	2006 - 2008
2.	Head of Application Unit	1. Managing, executing and monitoring the flow of application unit. Thus, the projects or systems being monitored are as follows: i. *Sistem Maklumat Pengurusan Kewangan (SMPK)* (Financial Management Information System) ii. *Sistem Maklumat Pelajar (SMP)* (Student Information System) iii. Human Resource Management System (HRMS)	1999 - 2004

No.	Administrative Post	Projects	Year
		iv. Executive Information System (EIS) v. Information Broker (IB) 2. Ensuring that the flow of integrated Human Resource Management System (IHRMS), Salary System, Executive Information System and Information Broker (IB) are integrated for Y2K. 3. Planning the necessary and the development of database integration in UPM.	
3.	Head of Database Unit	1. Administering, managing and executing the entire eight units of SQL/DS database for university main application. 2. Planning and managing security system for database. 3. Planning and developing Dictionary System for database management in UPM. 4. Developing 'System Study' and 'Capacity Planning' to upgrade UPM database. 'Housekeeping' and 'Performance Monitoring' for the database flow. 5. Planning and implementing the quality data assurance.	1991 - 1998

4.	Project Leader	1. Planning, developing, implementing and maintaining application systems:
		  i. Receivable Accounting System
		  ii. Postgraduate Account System
		  iii. Payable Accounting System
		  iv. Student accounting System
		  v. Asset System
		  vi. Budget System
		  vii. Scholarship Staff Allowance System
		  viii. Salary and Temporary Staff Pension System
		  ix. General Ledger System
		  x. Purchase System
			1989 - 1991

No.	Administrative Post	Projects	Year
		xi. Claim and Advance System xii. Examination Academic for UPM Bintulu Campus System xiii. UPM Air Flight System xiv. Creditor System xv. Prototype Executive information System 2. Planning and handling training session for users on the application system developed. 3. Planning and handling training session for users on productivity software for word processing, database, worksheet, presentation and system operation software.	
5.	Manager Information Technology Business Centre (ITBC)	1. Managing courses held by ITBC. 2. Coordinating and managing ITBC's projects 3. Managing fund transaction:- receiving payment from participant and withdrawal fund for ITBC experiences. 4. Teaching and demonstrating the developed systems and also word processing, database software, worksheet software, presentation software and system operation software.	1996 - 1998

REFERENCES

a) **Dato' Prof. Dr. Shamala K. Subramaniam**
   Dean
   Faculty of Computer Science and Information Technology
   Universiti Putra Malaysia
   43400 UPM Serdang Selangor D.E. MALAYSIA.
   Tel: +603 9769 6555
   E-mail: shamala_ks@upm.edu.my

b) **Professor Dr. Hamidah Ibrahim**
   Department of Computer Science
   Faculty of Computer Science and Information Technology
   Universiti Putra Malaysia
   43400 UPM Serdang Selangor D.E. MALAYSIA.
   Tel: +603 9769 1713
    E-mail: hamidah.ibrahim@upm.edu.my

c) **Assoc. Prof. Dr. Thinagaran Perumal**
   Head of Department
   Department of Computer Science
   Faculty of Computer Science and Information Technology
   Universiti Putra Malaysia
   43400 UPM Serdang Selangor D.E. MALAYSIA.
   Tel: +603 9769 1747
    E-mail: thinagaran@upm.edu.my

CONTACT DETAILS

Associate Prof. Dr. Fatimah Sidi
Department of Computer Science
Faculty of Computer Science and Information Technology
Universiti Putra Malaysia
43400 UPM Serdang Selangor D.E. MALAYSIA
Web: https://fsktm.upm.edu.my/
Tel: +603 9769 1734

Hp: +6012 203 8131
Email: fatimah@upm.edu.my
Web: https://profile.upm.edu.my/fatimah