



CURRICULUM VITAE



I. PERSONAL PARTICULARS

Name	FATIMAH BINTI DATO AHMAD
Current Position Faculty / Department	PROFESSOR (VK7) FACULTY OF DEFENCE SCIENCE AND TECHNOLOGY / DEPARTMENT OF COMPUTER SCIENCE

II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS

(Please list all academic qualifications, from your first degree, in chronological order)

Year	Degree	Discipline	University
1983	Diploma	Computer Science	Institut Teknologi MARA (ITM)
1986	Bachelor of Science	Mathematics- Computer Science (Cum Laude)	University of Hartford, USA
1987	Master of Science	Computer Science	Rensselaer Polytechnic Institute, USA
1995	Doctor of Philosophy	Computer Science (Information Retrieval)	Universiti Kebangsaan Malaysia

III. TITLES OF POSTGRADUATE THESES WRITTEN			
No.	TITLES OF POSTGRADUATE THESES		
1.	ANNA: A Specification Language for Ada (Master's Thesis)		
2.	A Malay Language Document Retrieval System: An Experimental Approach and Analysis (Ph.D. Thesis)		

IV. WORK EXPERIENCE (Please list your relevant experience in chronological order)			
Year	Position	Field of Work	Place of Work
1984	Computer Programmer	Computer Science	Jabatan Akauntan Negara
1988 – 2001	Lecturer (DS45)	Computer Science	Universiti Putra Malaysia
2002 – 2008	Associate Professor (DS54)	Computer Science	Universiti Putra Malaysia
2009 – present	Professor (VK7)	Computer Science	Universiti Pertahanan Nasional Malaysia

1.0 TEACHING AND SUPERVISION

1.1 Undergraduate Courses

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester	Year
1.	Computer Programming I	One, Two	1988, 1989, 1990, 1991
2.	Organisation of Programming Languages	One, Two	1988, 1989, 1990, 1991
3.	Introduction to File Processing	One, Two	1988, 1989, 1990, 1991
4.	Computer System and its Applications	One, Two	1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008
5.	Discrete Structures	One, Two	1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008
6.	Organisation of Programming Languages	One, Two	1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008
7.	Special Topics in Multimedia	One, Two	1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008

8.	Discrete Mathematics and Logic	One, Two	2008, 2009, 2010, 2011, 2012, 2013
9.	Computer Graphics and Multimedia	Two	2009
10.	Ethics and Professionalism in ICT	Two	2010, 2011, 2012
11.	Discrete Mathematics	One	2014

1.2 Postgraduate Courses

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester	Year
1.	Computer System Technology	One, Two	1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008
2.	Research Methods in Computer Science	One, Two	1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008
3.	Multimedia Information System	One, Two	1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008
4.	Selected Topics in Multimedia	One, Two	1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008
5.	Multimedia Technology	One, Two	1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008

1.3 Ph.D. Supervision

(Please list in chronological order and state: name of student, year, project title and status)

No.	Name of Student	Project Title	Year	Status
				<ul style="list-style-type: none"> • Completed • Submitted • In Progress
1.	Moawia Elfaki Yahia	An Approach to the Development of Hybrid Architecture of Expert Systems	1999	Completed
2.	Siti Mariyam binti Shamsuddin	Higher Order Centralized Scale-Invariants for Unconstrained Handwritten Digits	2000	Completed
3.	Jehad Qubiel Odeh	Fast and Efficient Approaches for Content-Based Image Retrieval using Colour and Shape Features	2004	Completed
4.	Omar A.A. Shiba	Case Slicing Technique for Feature Selection	2004	Completed
5.	Muhamad Taufik bin Abdullah	Monolingual and Cross-Language Information Retrieval	2006	Completed

		for Malay and English Documents		
6.	Lilly Suriani binti Affendey	Data Modelling and Hybrid Query for Video Databases	2006	Completed
7.	Khor Siak Wang	Statistical Approach for Image Retrieval	2007	Completed
8.	Anwar Ali Yahya Esmail	Dynamic Bayesian Networks and Variable Length Genetic Algorithm for Dialogue Act Recognition	2007	Completed
9.	Mohammad Khatim bin Hasan	Fast Finite Difference Time Domain Algorithms for Solving Antenna Application Problem	2008	Completed
10.	Mohd. Juzaidin bin Ab. Aziz	Pola Grammar for Automated Marking of Malay Short Answer Essay-typed Examination	2008	Completed
11.	Siti Salwa binti Hj. Salleh	Motion Path Generation in Visual Speech Synthesis using a Modified Factor for 6 th Order Polynomial Function	2008	Completed
12.	Mohammad Said El-Bashir	New Distance Measure for Arabic Handwritten Text Recognition	2008	Completed
13.	Kweh Yeh Lun	Selection Algorithm in Peer 2 Peer Grid Computing Environment	2010	Completed
14.	Mas Rina Mustaffa	Content-Based Image Retrieval Through Extended Normalised Ridgelet-Fourier and Multi-Resolution Joint Auto Correlograms	2012	Completed
15.	Md. Nabil Ahmad Zawawi	Steganography Through Cover Generation of Images	2007	In Progress
16.	Mary Ting	Logical Semantic Knowledge Representation with Multi-tuple Model	2011	In Progress
17.	Lee Fong Yee	An Adaptive Screen Layout Model that	2012	In Progress

		Support Layout Aesthetics		
18.	Lt Kol Shahrudin bin Ariffin	Optimised the Army IT Applications and Infrastructure (SIS TD) and the Role of Knowledge Management (KM) to Support AV8 Armoured Regimental Operations Towards Network Centric Warfare: An Analysis	2014	In Progress

1.4 Ph.D. External/Internal Examination

(Please list in chronological order and state: name of student, year, project title and status)

No.	Name of Student	Project Title	Year	Status <ul style="list-style-type: none"> • Completed • Submitted • In Progress
1.	Minni Ang Kim Huai	A Layered Architectural Model for Music Education: Malaysian Music on the World Wide Web	1998	Completed
2.	Mohammed Abdullah Hassan Al-Hajri	New Complexity Weights for Function Point Analysis Using Artificial Neural Networks	2004	Completed
3.	Issham bin Isa	Hybrid Process for Development of Multimedia User Interface	2005	Completed
4.	Ungku Azmi Iskandar bin Ungku Chulan	Connector-based Extraction with Concept Relational Parser for Extracting Semantic Relation from Text	2007	Completed
5.	Fatimah binti Sidi	Transformation of Extracted Knowledge in Malay Unstructured Documents into an Interrogative Structured Form	2007	Completed
6.	Mohd Zakree bin Ahmad Nazri	Taxonomy Learning from Malay Texts Using Hybridized Artificial Immune System	2010	Completed

7.	Siti Hanom binti Marjuni	Interrogative Elements and Verb-Noun Ranking for Criminal Chatting Forensics	2011	Completed
8.	Salha Mohammed M. Alzahrani	Plagiarism Screening in Scientific Publications using Structural Information and Fuzzy Semantic Similarity	2012	Completed
9.	Mazni binti Omar	The Effectiveness of an Agile Software Methodology: Empirical Evidence and Prediction Model	2012	Completed

1.5 Supervision (Coursework and Project)

(Please list in chronological order and state: name of student, year, project title and status)

No.	Name of Student	Project Title	Year	Status <ul style="list-style-type: none"> • Completed • Submitted • In Progress
1.	Muhammad Fikri bin Zakaria	<i>Sistem Penjadualan Latihan Penerbangan Nuri dan Penyimpanan Data Jam Penerbangan Nuri</i>	2008	Completed
2.	Aminudin bin Kamarudin	<i>Sistem Pengurusan Latihan Taekwondo Universiti Pertahanan Nasional Malaysia (UPNM)</i>	2008	Completed
3.	Nuraini Zulkifli	<i>Sistem e-Roll Call</i>	2009	Completed
4.	Umar Azizi bin Ramli	<i>Sistem Pengenalpastian Imej Manusia (SPIM)</i>	2010	Completed
5.	Azharul Azfar Azmi bin Ismail	Career Guidance Decision Support System for Civilian Students in UPNM	2010	Completed
6.	Muhammad Syazwan bin Hussain	<i>Sistem Mengesan Kekosongan Tempat Meletak Kereta di UPNM Menggunakan Pemprosesan Imej</i>	2011	Completed
7.	Muhammad Zulhairi bin Ramli	<i>Sistem Pakar Menentukan Jenis dan Warna Pakaian yang</i>	2011	Completed

		<i>Sesuai</i>		
8.	Noor Hapizah binti Aznan	<i>Sistem Pesanan Kad Nama Fakulti Sains dan Teknologi Pertahanan Secara Dalam Talian</i>	2011	Completed
9.	Muhammad Zhariff bin Zainudin	<i>Sistem Keselamatan Kotak Tabung Fakulti Sains dan Teknologi Pertahanan Menggunakan Pengesanan Kad Pintar dan Cap Jari</i>	2011	Completed
10.	Mohd. Afif bin Md. Jusoh	<i>Sistem Pakar dalam Menentukan Padanan Jenis dan Warna Bingkai Cermin Mata yang Sesuai</i>	2011	Completed
11.	Mohd. Jazrin bin Che Jamal	<i>Sistem Jadual Waktu Kuliah</i>	2012	Completed
12.	Aliff Zahierudeen bin Amir	<i>Sistem Maklumat Panduan Pengurusan Kerjaya Pegawai Kor Infantri Tentera Darat</i>	2012	Completed
13.	Muhammad Syahir bin Mohamad Azahar	<i>Sistem Pakar Dalam Membantu Strategi Bertahan</i>	2012	Completed
14.	Ku Fitri bin Ku Yahaya	<i>Sistem Pesanan Kad Nama Fakulti Sains dan Teknologi Pertahanan Secara Dalam Talian</i>	2012	Completed
15.	Ahmad Fakhruddin bin Nor Din	<i>Sistem Penempahan dan Pembelian Pakaian dan Aksesori 1-10 di Universiti Pertahanan Nasional Malaysia</i>	2012	Completed
16.	Badru Hussin Ibrahim bin Hussin	<i>Sistem Penjadualan Tugas Pegawai Kadet Secara Dalam Talian Menggunakan Algoritma Semut</i>	2013	Completed
17.	Wan Nurfaiqah binti Wan Yunus	<i>Sistem Melapor Sakit Di Pusat Kesihatan (PK) Universiti Pertahanan Nasional Malaysia (UPNM) Menggunakan Kod QR</i>	2013	Completed
18.	Shobana Meenatchi a/p Athiappan	<i>Pengekstrak Titik Minutiae Daripada Imej</i>	2013	Completed

		<i>Cap Jari Menggunakan Perisian MatLab</i>		
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1.6 M.Sc. (by Research)

(Please list in chronological order and state: name of student, year, project title and status)

No.	Name of Student	Project Title	Year	Status <ul style="list-style-type: none"> • Completed • Submitted • In Progress
1.	Md. Mahbubur Rahim	Software Engineering Approach in Developing Distributed Database	1991	Completed
2.	Azmi bin Md. Saman	Hypermedia System	1997	Completed
3.	Noor Maizura binti Mohamad Noor	Computerised Information System in Managerial Decision Making: A Comparative Study	1997	Completed
4.	Mohd. Shahidan bin Abdullah	<i>Prestasi Kaedah Penilaian Pertanyaan dalam Pangkalan Data Teragih</i>	1997	Completed
5.	Suresh a/l Krishnan	Interactive Multimedia in Education	1998	Completed
6.	Kamarudin bin Tahir	<i>Kerangka Kerja Konsep untuk Pembangunan Sistem Persidangan Video Berorientasi Objek</i>	1998	Completed
7.	Nur Izura binti Udzir	<i>Rangkaian Neural untuk Sistem Dapatan Semula Perkataan daripada Pangkalan Data</i>	1998	Completed
8.	Ummu Salmah binti Mohamad Hussain	<i>Pengecaman Pertuturan Bahasa Melayu dengan Menggunakan Kaedah Rangkaian Neural</i>	1998	Completed
9.	Idi Fulayi	Building a French Stemmer using a Dictionary of French Root Words	1999	Completed
10.	Siti Jauyah binti Sib0 @ Hj. Mohamed Osman	<i>Sistem Kripto LUC untuk Pengesahan Aplikasi Telnet</i>	1999	Completed
11.	Atef Ali Elian Al-Khwaldah	An Image Retrieval System	2000	Completed
12.	Mohamed Ahmed Sullabi	Integrated	2000	Completed

		Environment for Software Documentation		
13.	Maya Silvi Lydia	Object-Oriented Approach to Integrate Different Media in Presentation	2001	Completed
14.	Norhaidah binti Abu Haris	A Video Retrieval System	2001	Completed
15.	Suzaimah binti Ramli	<i>Satu Kajian Mengenai Pemprosesan Bahasa Tabii untuk Bahasa Melayu dalam Sistem Selari dan Teragih</i>	2002	Completed
16.	Akram M. Zeki	A Comparative Study of Software Used for Computational Geometry Applications	2003	Completed
17.	Mas Rina binti Mustafa	Content-Based Image Retrieval Through Improved Sub-Block Technique	2006	Completed
18.	Mej Affandi bin Hussain	<i>Pengecaman Kawasan Atur Gerak Rejimen Artileri di Hadapan Kawasan Pertempuran Menggunakan Pesawat Udara Tanpa Pemandu</i>	2012	In Progress
19.	Wan Sharil Sham bin Sharif	Android Augmented Reality System in Malaysia Military Operations Unit Positions	2012	In Progress

1.7 M.Sc. External/Internal Examination

(Please list in chronological order and state: name of student, year, project title and status)

No.	Name of Student	Project Title	Year	Status
				<ul style="list-style-type: none"> • Completed • Submitted • In Progress
1.	Ravie Chandren a/l Muniyandi	<i>Rangkaian Neural: Satu Penerokaan Dalam Sistem Pencapaian Dokumen</i>	1997	Completed
2.	Kulothunkan Palasundram	<i>Kajian Teknik-teknik Padanan Perkataan dan Pembangunan Perisian</i>	1998	Completed

		<i>Penterjemahan Istilah Inggeris-Melayu</i>		
3.	Amirah binti Ismail	<i>Perbandingan Keberkesanan Capaian Antara Enjin Gelintar</i>	2000	Completed
4.	Maya Silvi Lydia	Backus-Naur Form Based Script Definition Language for Multimedia Presentation Document	2001	Completed
5.	Suzaimah binti Ramli	<i>Reka Bentuk dan Implementasi Suatu Penghurai Bahasa Melayu Menggunakan Sistem Logik Selari</i>	2002	Completed
6.	Ita Nurazlin binti Mohd. Sahlan	<i>Kajian Penggunaan Laman Enjin Pencari Tempatan dan Antarabangsa: Suatu Perbandingan</i>	2003	Completed
7.	Akram Mohammed Zeki Khedher	Framework for Evaluating Programming Languages for Computer Graphics	2003	Completed
8.	Sulaiman bin Kaiat	<i>Pelabelan Golongan Kata Bahasa Melayu: Pengautomasian Petua Morfologi Menggunakan Teknik Penapisan dan Pengasingan</i>	2004	Completed
9.	Sopiah binti Ishak	Designing an Interactive Multimedia Model: Case Study of German-Malay Language	2004	Completed
10.	Gee Yoke Ting	Multimedia Technology	2004	Completed
11.	Ng Keng Yap	Development and Evaluation of a Software Metrics Markup Language	2005	Completed
12.	Md. Nabil bin Ahmad Zawawi	A Robust Cover Generation Technique for Steganography Using 2D Images	2006	Completed
13.	Khairul Azhar bin Kasmiran	Graphical User Interface Layout Language Using	2006	Completed

		Combinators		
14.	Narges Mahyar	Implementation of Creative-Pad: A New Creativity Support Tool	2008	Completed
15.	Elham Bagherian	A Robust Method for Facial Feature Extraction based on Corner Detection	2009	Completed
16.	Rosmiza Wahida binti Abdullah	Computer-based Support Tool for Visualization of Brain Anatomy	2011	Completed
17.	Elham Bagherian	A Robust Method for Facial Feature Extraction based on Corner Detection	2011	Completed
18.	Nordianah binti Ab Samat	Multi-Algorithm Method and Double Singular Value Decomposition for Malay Documents Clustering	2012	Completed

2.0 RESEARCH AND PUBLICATION

2.1 Research Projects

(Please list in chronological order and state: title, list of researchers, grant/year, source/amount, date/duration and status) (Please bold your name)

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
1.	A Malay and Multilingual Information Retrieval System	Prof. Dr. Tengku Mohd. bin Tengku Sembok (Principal), Prof. Dr. Mohammed bin Yusoff (Member), Prof. Dr. Hjh. Fatimah binti Dato Ahmad (Member)	1991	IRPA RM500,000.00	Completed
2.	A Malay Language Information Retrieval System	Prof. Dr. Hjh. Fatimah binti Dato Ahmad (Principal)	1996	UPM Short-term Research Grant RM10,000.00	Completed
3.	A French Language Information Retrieval System	Prof. Dr. Hjh. Fatimah binti Dato Ahmad	1997	UPM Short-term Research Grant	Completed

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
		(Principal), Prof. Dr. Md. Yazid bin Mohd. Saman (Member), Assoc. Prof. Dr. Norwati binti Mustapha (Member), Assoc. Prof. Dr. Muhamad Taifik bin Abdullah (Member)		RM10,000.00	
4.	Learning System Through the Internet	Prof. Dr. Hjh. Fatimah binti Dato Ahmad (Principal)	1997	UPM Short-term Research Grant RM15,000.00	Completed
5.	An Image Retrieval System	Prof. Dr. Hjh. Fatimah binti Dato Ahmad (Principal)	1999	UPM Short-term Research Grant RM10,000.00	Completed
6.	A Query Language for Video Databases	Assoc. Prof. Dr. Lilly Suriani binti Affendey (Principal), Assoc. Prof. Dr. Ali bin Mamat (Member), Prof. Dr. Hjh. Fatimah binti Dato Ahmad (Member), Prof. Dr. Hamidah binti Ibrahim (Member)	2001	IRPA RM84,000.00	Completed
7.	An Effective Content-Based Image Retrieval Through Improved Sub-Block Technique	Prof. Dr. Hjh. Fatimah binti Dato Ahmad (Principal), Dr. Mas Rina binti Mustafa (Member), Assoc. Prof. Dr. Rahmita	2006	eScienceFund RM84,196.00	Completed

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
		Wirza binti O.K. Rahmat (Member), Prof. Dr. Ramlan bin Mahmod (Member)			
8.	A Musical Search Engine for Malaysian Musical Genres	Assoc. Prof. Dr. Shyamala a/p Doraisamy (Principal), Prof. Dr. Hjh. Fatimah binti Dato Ahmad (Member)	2006	eScienceFund RM174,980.00	Completed
9.	Steganography through Cover Generation using 2D Images	Prof. Dr. Ramlan bin Mahmod (Principal), Mr. Muhd. Nabil bin Ahmad Zawawi (Member), Assoc. Prof. Dr. Nur Izura binti Udzir (Member), Prof. Dr. Hjh. Fatimah binti Dato Ahmad (Member), Dr. Jalil bin Mohd. Desa (Member)	2006	Fundamental Research Grant Scheme (FRGS) RM60,000.00	Completed
10.	Computational Grammar and Semantic Framework for Malay Language based Categorical Grammar and Logic Foundation	Prof. Dr. Hjh. Fatimah binti Dato Ahmad (Principal), Prof. Dr. Tengku Mohd. bin Tengku Sembok (Member), Prof. Dr. Zainab binti Abu Bakar (Member), Assoc. Prof.	2010	Fundamental Research Grant Scheme (FRGS) RM44,720.00	Completed

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
		Dr. Juzaidin bin Ab. Aziz (Member)			
11.	Indigenous Ensemble Semantic Model for Knowledge-based Society (research project) under Advanced Computing Environment to Enhance Innovative Digital Economy (research programme)	Prof. Dr. Zainab binti Abu Bakar (Principal), Prof. Dr. Hjh. Fatimah binti Dato Ahmad (Member), Prof. Dr. Tengku Mohd. bin Tengku Sembok (Member), Prof. Dr. Shahrul Azman bin Mohd. Noah (Member), Dr. Rabiah binti Abdul Kadir (Member), Dr. Azreen bin Azman (Member), Dr. Alfred Rayner (Member)	2011	Long-term Research Grant Scheme (LRGS) RM6,000,000.00	In Progress
12.	<i>Merapatkan Jurang Digital bagi Usahawan Ibu Tunggal Perlis</i>	Prof. Dr. Ku Ruhana binti Ku Mahamud (Principal), Prof. Dr. Hjh. Fatimah binti Dato Ahmad (Member)	2013	<i>Projek Penyelidikan Geran Majlis Profesor Negara (Kluster ICT)</i> RM19,350.00	Completed

2.2 Publications

2.2.1 Invited/Keynote Papers/Presentation

(Please list in chronological order and state: authors, year, title, publisher/journal/conference, volume and number of pages) (Please bold your name)

No.	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level • International • National • University

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2.2.2 Book/Chapter in Book

(Please list in chronological order and state: authors, year, title, publisher/journal/conference, volume and number of pages) (Please bold your name)

No.	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> • International • National • University
1.	Fatimah Ahmad . 1990. Bit and Byte. EKSPONEN, 3(2), pp: 1-3.	University
2.	Fatimah Ahmad . 2006. <i>Ensiklopedia Sains dan Teknologi Jilid 10: Teknologi Maklumat. Dewan Bahasa dan Pustaka-Universiti Teknologi Malaysia</i> .	National

2.2.3 Journal Article

(Please list in chronological order and state: authors, year, title, publisher/journal/conference, volume and number of pages) (Please bold your name)

No.	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> • International • National • University
1.	Mohd. Hasan Selamat, Md. Mahbubur Rahim, Abu Talib Othman, and Fatimah Ahmad . 1993. State-Structured Transition Model of Structured Prototyping. <i>Journal of Information Technology</i> , 5(1), pp: 69-80.	National
2.	Fatimah Ahmad , Mohammed Yusoff, and Tengku M. T. Sembok. 1996. Experiments with a Stemming Algorithm for Malay Words. <i>Journal of the American Society for Information Science</i> , 47(12), pp: 909-918.	International
3.	Moawia Elfaki Yahia, Ramlan Mahmod, Md. Nasir Sulaiman, and Fatimah Ahmad . 1998. Pre-processing Rough Engine with Neural Expert System. <i>Journal of Information Technology</i> , 10(1), pp: 70-84.	National
4.	Siti Mariyam Hj. Shamsuddin, Md. Nasir Sulaiman, Ramlan Mahmod, Fatimah Ahmad , and Maslina Darus. 1998. Backpropagation Model with an Improved Error Function. <i>Journal of Information Technology</i> , 10(2), pp: 20-31.	National
5.	Nur Izura Udzir, Md. Nasir Sulaiman, Ramlan Mahmod, Fatimah Ahmad , and Ali Mamat. 1999. <i>Sistem Dapatan Semula Perkataan daripada Pangkalan Data Menggunakan Rangkaian Neural</i> . <i>Journal of Information Technology</i> , 11(1), pp: 1-24.	National
6.	Md. Yazid Mohd. Saman, Kamarudin Tahir, Ali Mamat, and Fatimah Ahmad . 1999. <i>Pembangunan Aplikasi Persidangan Video Berorientasi Objek</i> . <i>Journal of Information Technology</i> , 11(1), pp: 96-116.	National
7.	Fatimah Ahmad , Tengku Mohd. Tengku Sembok, and Mohammed Yusoff. 2000. A Comparison of Retrieval Effectiveness between Stemmed Malay and Non-Stemmed Malay. <i>International Science Journal</i> , 12(2), pp: 203-204.	International
8.	Siti Mariyam Hj. Shamsuddin, Md. Nasir Sulaiman, Ramlan Mahmod, Fatimah Ahmad , and Maslina Darus. 2000. Digits Recognition with Moment Invariants. <i>Chiang Mai Journal of Science</i> , 27(1).	International

9.	Moawia Elfaki Yahia, Ramlan Mahmod, Md. Nasir Sulaiman, and Fatimah Ahmad . 2000. Rough Neural Expert Systems. Expert Systems with Applications Journal, 18(2000), pp: 87-99.	International
10.	Muhamad Taufik Abdullah, Fatimah Ahmad , Ramlan Mahmod, and Tengku Mohammed Tengku Sembok. 2002. <i>Dapatan Semula Maklumat Bahasa Melayu Menggunakan Pengindeksan Semantik Terpendam</i> . International Journal of Information Technology, 3(2002), pp: 1-10.	International
11.	Omar A. A. Shiba, Md. Nasir Sulaiman, Ali Mamat, and Fatimah Ahmad . 2003. Classification Model Based on Slicing. Journal of Institute of Mathematics and Computer Sciences (Computer Science Series), 14(2), pp: 77 -88.	International
12.	Omar A. A. Shiba, Norwati Mustapha, Md. Nasir Sulaiman, Ali Mamat, and Fatimah Ahmad . 2003. Using Code Slicing Technique to Improve Case Classification: A Suggested Case Slicing Approach. Applied Computing and Informatics, Saudi Computer Journal, 2(1), pp: 24-37.	International
13.	Jehad Qubiel Odeh, Fatimah Ahmad , Mohamed Othman, and Rozita Johari. 2003. An Efficient and Fast Multi Layer Statistical Approach for Colour Based Image Retrieval. Proceedings of the 6 th . International Conference on Asian Digital Libraries (ICADL 2003), Kuala Lumpur, Malaysia, 8-12 December 2003, Lecture Notes in Computer Science (LNCS 2911), pp: 134-148.	International
14.	Muhamad Taufik Abdullah, Fatimah Ahmad , Ramlan Mahmod, and Tengku Mohd. Tengku Sembok. 2003. Application of Latent Semantic Indexing on Malay-English Cross Language Information Retrieval. Proceedings of the 6 th . International Conference on Asian Digital Libraries (ICADL 2003), Kuala Lumpur, Malaysia, 8-12 December 2003, Lecture Notes in Computer Science (LNCS 2911), pp: 663-665.	International
15.	Akram M. Zeki, Rahmita Wirza OK Rahmat, Fatimah Ahmad , Rozita Johari, and Md. Nasir Sulaiman. 2004. A Comparative Study of Software Used for Computational Geometry Applications. Journal of Institute of Mathematics & Computer Sciences (Computer Science Series), 15(1), pp: 127-136.	International
16.	Omar A. A. Shiba, Md. Nasir Sulaiman, Fatimah Ahmad , and Ali Mamat. 2004. An Experimental Evaluation of Case Slicing as a New Classification Technique. Journal of ICT, 2(2), pp: 105-117.	International
17.	Omar Abdalgani Shiba, Md. Nasir Sulaiman, Fatimah Ahmad , and Ali Mamat. 2004. Code Slicing to Improve Case Classification Accuracy. Suranaree Journal of Science and Technology, 11(2), pp: 107-114.	International
18.	Jehad Qubiel Odeh, Fatimah Ahmad , Mohamed Othman, and Rozita Johari. 2004. Image Retrieval System Based on Density Slicing of Colour Histogram of Images Subareas and Colour Pair Segmentation. The International Arab Journal of Information Technology (IAJIT), 1(2), pp: 196-202.	International
19.	Salah Mahdi Darwash, Mohd. Hasan Selamat, Mohamed Othman, and Fatimah Ahmad . 2004. The Effect of Web Site Structure on Users' Navigation Style. Journal of Technology & Management, 2(1), pp: 27-33.	International
20.	Mohd. Juzaidin Ab. Aziz, Fatimah Ahmad , Abdul Azim Abdul Ghani, and Ramlan Mahmod. 2006. Pola Grammar Technique for Grammatical Relation Extraction in Malay Language. Malaysian	National

	Journal of Computer Science, University of Malaya, 19(1), pp: 59-72.	
21.	Omar A. A. Shiba, Md. Nasir Sulaiman, Ali Mamat, and Fatimah Ahmad . 2006. An Efficient and Effective Case Classification Method Based on Slicing. International Journal of the Computer, the Internet and Management, 14(2), pp: 15-23.	International
22.	Anwar Ali, Ramlan Mahmod, Fatimah Ahmad , and Md. Nasir Sulaiman. 2006. Bayesian Networks Model for Dialogue Act Recognition Based on Intra-Utterance Features and Inter-Utterances Context. Suranaree Journal of Science and Technology, 13(4), pp: 285-297.	International
23.	Mohammad Khatim Hasan, Mohamed Othman, Zulkifly Abbas, Jumat Sulaiman, and Fatimah Ahmad . 2007. Parallel Solution of High Speed Low Order FDTD on 2D Free Space Wave Propagation. Lecture Notes in Computer Science (LNCS 4706), pp: 13-24.	International
24.	Lilly Suriani Affendey, Ali Mamat, Hamidah Ibrahim, and Fatimah Ahmad . 2007. Video Data Modelling to Support Hybrid Query. International Journal of Computer Science and Network Security, 7(9), pp: 53-61.	International
25.	Mohammad Khatim Hasan, Mohamed Othman, Zulkifly Abbas, Jumat Sulaiman, and Fatimah Ahmad . 2008. Parallel Implementation of Complexity Reduction Approach to Fourth Order Approximation on 2D Free Space Wave Propagation. Lecture Notes in Computer Science (LNCS 5073), pp: 720-735.	International
26.	Mas Rina Mustafa, Fatimah Ahmad , Rahmita Wirza O.K. Rahmat, and Ramlan Mahmod. 2008. Content-based Image Retrieval based on Color-Spatial Features. Malaysian Journal of Computer Science, 21(1), pp: 1-12.	National
27.	Siti Salwa Salleh, Rahmita Wirza O.K. Rahmat, Ramlan Mahmod, and Fatimah Ahmad . 2009. Synthesis Visual Speech using Modified Polynomial Motion Curve. International Journal of Computer Science and Network Security, 9(2), pp: 170-175.	International
28.	Muhamad Taufik Abdullah, Fatimah Ahmad , Ramlan Mahmod, and Tengku Mohd Tengku Sembok. 2009. Rules Frequency Order Stemmer for Malay Language. International Journal of Computer Science and Network Security, 9(2), pp: 433-438.	International
29.	Siti Salwa Salleh, Rahmita Wirza O.K. Rahmat, Ramlan Mahmod, and Fatimah Ahmad . 2009. 3D Lips Development and Measurement for Visual Speech Synthesis. European Journal of Scientific Research, 35(2), pp: 159-172.	International
30.	Khor Siak Wang and Fatimah Ahmad . 2009. Image Retrieval using Non-Binary-Weighted Approach. International Journal of Computer Science and Network Security, 9(9), pp: 101-106.	International
31.	Mas Rina Mustafa, Fatimah Ahmad , Ramlan Mahmod, and Shyamala Doraisamy. 2011. Multi-resolution Shape-based Image Retrieval using Ridgelet Transform. Malaysian Journal of Computing (in press).	National
32.	Harshida Hasmy, Zainab Abu Bakar, Fatimah Ahmad , and Tengku Mohd Tengku Sembok. 2012. Construction of Computational Malay Lexicon Using Affixed Words Analyser. Journal of Information Retrieval and Knowledge Management, 2(2012), pp: 81-87.	National
33.	Rabiah A. Kadir, T.M.T. Sembok, Fatimah Ahmad , and Azreen	International

	Azman. 2013. Normalization Strategy of Logical Knowledge Representation for Text Document. IACSIT International Journal of Engineering and Technology, 5(1), pp: 98-103.	
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2.2.4 Proceedings Article

(Please list in chronological order and state: authors, year, title, publisher/journal/conference, volume and number of pages) (Please bold your name)

No.	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> • International • National • University
1.	Fatimah Ahmad . 1987. ANNA: A Specification Language for Ada. Proceedings of the Third Annual Computer Science Conference, Hartford, Connecticut, United States of America, 25 April 1987, pp: 404-409.	University
2.	Fatimah Ahmad , Tengku Mohd. Tengku Sembok, and Mohammed Yusoff. 1994. Characterization of an Experimental Collection using Malay Language. Proceedings of the 4 th . International Conference and Exhibition on Multi-lingual Computing, University of Cambridge, United Kingdom, 7-9 April 1994, pp: 5.1.1.1-5.1.1.9.	International
3.	Tengku Mohd. T. Sembok, Mohammed Yusoff, and Fatimah Ahmad . 1994. A Malay Stemming Algorithm for Information Retrieval. Proceedings of the 4 th . International Conference and Exhibition on Multi-lingual Computing, University of Cambridge, United Kingdom, 7-9 April 1994, pp: 5.1.2.1-5.1.2.10.	International
4.	Fatimah Ahmad , Tengku Mohd. T. Sembok, and Mohammed Yusoff. 1994. <i>Pengakar Perkataan Melayu Berasaskan Petua Morfologi</i> . Proceedings of the 2 nd . Postgraduate Seminar, Faculty of Mathematical Sciences and Computing, Universiti Kebangsaan Malaysia, 6 September 1994, pp: 16-26.	University
5.	Tengku Mohd. T. Sembok, Mohammed Yusoff, Fatimah Ahmad , and Belal Abu Ata. 1995. <i>Sistem Capaian Dokumen: Satu Eksperimen dalam Bahasa Melayu-Inggeris</i> . Proceedings of the 5 th . International Translation Conference, Johor Bahru, 21-23 November 1995, pp: 31-38.	International
6.	Fatimah Ahmad , Tengku Mohd. Tengku Sembok, and Mohammed Yusoff. 1996. Classification of Document Retrieval Techniques: An Overview. Proceedings of the National Conference on Research and Development in Computer Science and its Applications (REDECS '96), Universiti Putra Malaysia, 26-27 June 1996, pp: 377-382.	National
7.	Nur Izura Udzir, Md. Nasir Sulaiman, Ali Mamat, Ramlan Mahmod, and Fatimah Ahmad . 1997. <i>Rangkaian Neural dalam Capaian Padanan-Separa</i> . Proceedings of the Information Technology Colloquium (INTEC '97), Universiti Putra Malaysia, 20 May 1997, pp: A11-A15.	National
8.	Noor Maizura Mohamad Noor, Mohd. Hasan Selamat, Ali Mamat, Abdul Azim Abdul Ghani, and Fatimah Ahmad . 1997. The Usage of DSS between Public and Private Sectors in Malaysia. Proceedings of the Information Technology Colloquium (INTEC '97), Universiti Putra Malaysia, 20 May 1997, pp: B16-B20.	National
9.	Noor Maizura Mohamad Noor, Mohd. Hasan Selamat, Ali Mamat,	National

	Abdul Azim Abdul Ghani, and Fatimah Ahmad . 1997. Decision Support System: An Overview. Proceedings of the Information Technology Colloquium (INTEC '97), Universiti Putra Malaysia, 20 May 1997, pp: B51-B55.	
10.	Mohd. Shahidan Abdullah, Ali Mamat, Md. Yazid Mohd. Saman, and Fatimah Ahmad . 1997. <i>Prestasi Kaedah-kaedah Penilaian Pertanyaan di dalam Sistem Pangkalan Data Teragih</i> . Proceedings of the Information Technology Colloquium (INTEC '97), Universiti Putra Malaysia, 20 May 1997, pp: C1-C5.	National
11.	Idi Fulayi, Fatimah Ahmad , Md. Yazid Mohd. Saman, Muhamad Taufik Abdullah, and Norwati Mustapha. 1997. A French Document Retrieval System: An Overview. Proceedings of the Information Technology Colloquium (INTEC '97), Universiti Putra Malaysia, 20 May 1997, pp: D31-D35.	National
12.	Suresh Krishnan and Fatimah Ahmad . 1997. Interactive Multimedia in Education. Proceedings of the Information Technology Colloquium (INTEC '97), Universiti Putra Malaysia, 20 May 1997, pp: D36-D40.	National
13.	Idi Fulayi, Fatimah Ahmad , Md. Yazid Mohd. Saman, Muhamad Taufik Abdullah, and Norwati Mustapha. 1997. Architecture of a French Document Retrieval System. Proceedings of the National Conference on Research and Development in Computer Science and its Applications (REDECS '97), Universiti Sains Malaysia, 27-29 November 1997, pp: 76-80.	National
14.	Nur Izura Udzir, Md. Nasir Sulaiman, Ali Mamat, Ramlan Mahmod, and Fatimah Ahmad . 1997. <i>Rangkaian Neural dalam Dapatan Pangkalan Data</i> . Proceedings of the National Conference on Research and Development in Computer Science and its Applications (REDECS '97), Universiti Sains Malaysia, 27-29 November 1997, pp: 93-97.	National
15.	Suresh Krishnan and Fatimah Ahmad . 1997. Web-based Instruction. Proceedings of the National Conference on Research and Development in Computer Science and its Applications (REDECS '97), Universiti Sains Malaysia, 27-29 November 1997, pp: 108-112.	National
16.	Md. Nasir Sulaiman, Ramlan Mahmod, Fatimah Ahmad , Siti Mariyam Shamsuddin, and Maslina Darus. 1999. Geometric Moment Invariants and Aspect Invariant Moments: A Feature Extraction for Handwritten Digits (A Comparison). Proceedings of the Information Technology Colloquium (INTEC '99), Universiti Putra Malaysia, 18 May 1999, pp: A13-A30.	National
17.	Nur Izura Udzir, Md. Nasir Sulaiman, Ali Mamat, Ramlan Mahmod, and Fatimah Ahmad . 1999. <i>Sistem Dapatan Semula Perkataan daripada Pangkalan Data Menggunakan Rangkaian Neural</i> . Proceedings of the Information Technology Colloquium (INTEC '99), Universiti Putra Malaysia, 18 May 1999, pp: A31-A35.	National
18.	Ummu Salmah Mohamad Hussin, Ramlan Mahmod, Abdul Rahman Ramli, Fatimah Ahmad , and Ahmad Nazri Ali. 1999. <i>Rangkaian Neural Multi-Aras untuk Pengecaman Pertuturan Bahasa Melayu</i> . Proceedings of the Information Technology Colloquium (INTEC '99), Universiti Putra Malaysia, 18 May 1999, pp: A46-A51.	National
19.	Moawia Elfaki Yahia, Ramlan Mahmod, Md. Nasir Sulaiman, and Fatimah Ahmad . 1999. Rough Inference Engine for Neural Expert	National

	System. Proceedings of the Information Technology Colloquium (INTEC '99), Universiti Putra Malaysia, 18 May 1999, pp: A52-A58.	
20.	Suzaimah Ramli, Md. Yazid Mohd. Saman, Ali Mamat, and Fatimah Ahmad . 1999. <i>Isu-isu Peimplementasian Pemprosesan Bahasa Tabii untuk Sistem Selari PARLOG</i> . Proceedings of the Information Technology Colloquium (INTEC '99), Universiti Putra Malaysia, 18 May 1999, pp: A59-A63.	National
21.	Maya Silvi Lydia, Md. Yazid Mohd. Saman, Ramlan Mahmod, and Fatimah Ahmad . 1999. Object-Oriented Approach to Integrate Different Media in Multimedia Presentations: An Overview. Proceedings of the Information Technology Colloquium (INTEC '99), Universiti Putra Malaysia, 18 May 1999, pp: B115-B119.	National
22.	Mohamed A. Sullabi, Abd. Azim Abd. Ghani, Mohd. Hasan Selamat, and Fatimah Ahmad . 1999. Documentation for Effective Communication in Software Development. Proceedings of the Information Technology Colloquium (INTEC '99), Universiti Putra Malaysia, 18 May 1999, pp: B124-B129.	National
23.	Idi Fulayi, Fatimah Ahmad , Md. Yazid Mohd. Saman, Norwati Mustapha, and Muhamad Taufik Abdullah. 1999. A Weak Stemmer for French. Proceedings of the Information Technology Colloquium (INTEC '99), Universiti Putra Malaysia, 18 May 1999, pp: C13-C17.	National
24.	Siti Jaayah Siboo, Ramlan Mahmod, Fatimah Ahmad , and Mohamad Rusdan Md. Said. 1999. <i>Kriptografi Kunci Awam: Kajian Perbandingan RSA dan LUC</i> . Proceedings of the Information Technology Colloquium (INTEC '99), Universiti Putra Malaysia, 18 May 1999, pp: C47-C51.	National
25.	Siti Mariyam Hj. Shamsuddin, Md. Nasir Sulaiman, Ramlan Mahmod, Fatimah Ahmad , and Maslina Darus. 1999. A Generalization of a New Invariant Moments for Deformation Digits. International Conference on Robotics, Vision and Parallel Processing for Automation (ROVPIA '99), Ipoh, Perak, 16-18 July 1999, pp: 513-521.	International
26.	Siti Mariyam Hj. Shamsuddin, Md. Nasir Sulaiman, Ramlan Mahmod, Fatimah Ahmad , and Maslina Darus. 2000. <i>Rangkaian Neural: Alternatif Pengkelasan Masalah (Satu Imbasan)</i> . Simposium Kebangsaan Sains Matematik Ke-8, 1-2 April 2000.	National
27.	Siti Mariyam Hj. Shamsuddin, Md. Nasir Sulaiman, Ramlan Mahmod, Fatimah Ahmad , and Maslina Darus. 2000. Shearing Moment Invariants for Logo Trademarks. Proceedings of the New Millennium International Conference on Pattern Recognition, Image Processing and Robot Vision (PRIPROV), TATI, Terengganu, 14-15 May 2000, pp: 134-139.	International
28.	Muhamad Taufik Abdullah, Fatimah Ahmad , Ramlan Mahmod, and Tengku Mohd. Tengku Sembok. 2000. Cross-Language Information Retrieval. Proceedings of the Information Technology Colloquium (INTEC 2000), Universiti Putra Malaysia, 28 September 2000, pp: 149-154.	National
29.	Jehad Q. Odeh, Md. Yazid Mohd. Saman, and Fatimah Ahmad . 2001. Content-Based Image Retrieval and Spatial Relationship: Problems and Solutions. Proceedings of the International Conference on Information Technology and Multimedia at UNITEN (ICIMU 2001), Universiti Tenaga Nasional, 13-15 August 2001, pp: 28-33.	International

30.	Muhamad Taufik Abdullah, Fatimah Ahmad , Ramlan Mahmod, and Tengku Mohd. Tengku Sembok. 2001. <i>Dapatan Semula Maklumat Silang Bahasa Melayu-Inggeris</i> . Proceedings of the National Conference on Research & Development in Computer Science (REDECS 2001), Universiti Putra Malaysia, 22-25 October 2001, pp: 295-299.	National
31.	Lilly Suriani Affendey, Ali Mamat, Fatimah Ahmad , and Hamidah Ibrahim. 2001. A Framework for Implementing a Video Database System. Proceedings of the National Conference on Research & Development in Computer Science (REDECS 2001), Universiti Putra Malaysia, 22-25 October 2001, pp: 403-409.	National
32.	Jehad Qubiel Odeh, Fatimah Ahmad , Mohamed Othman, and Rozita Johari. 2002. Image and Video Compression in a Multimedia System. Proceedings of the 2 nd . World Engineering Congress (WEC 2002), Sarawak, 22-25 July 2002, pp: 159-164.	International
33.	Jehad Qubiel Odeh, Fatimah Ahmad , Mohamed Othman, and Rozita Johari. 2002. Image Retrieval System Based on Colour Histogram Localization and Colour Pair Segmentation. Proceedings of the 2 nd . IASTED International Conference on Visualization, Imaging, and Image Processing, Spain, 9-12 September 2002, pp: 41-45.	International
34.	Lilly Suriani Affendey, Ali Mamat, Fatimah Ahmad , and Hamidah Ibrahim. 2002. A Framework for Storing Video Metadata. Proceedings of the Conference on Information Technology Research and Applications: Innovations at Work (CITRA 2002), Malaysian Airlines Academy, Kelana Jaya, 25-26 September 2002.	National
35.	Lilly Suriani Affendey, Ali Mamat, Fatimah Ahmad , and Hamidah Ibrahim. 2002. Mapping XML Video Metadata into Relational Database. Proceedings of the National Conference on Computer Graphics and Multimedia (CoGRAMM 2002), Equatorial Hotel, Malacca, 7-9 October 2002, pp: 108-114.	National
36.	Jehad Qubiel Odeh, Fatimah Ahmad , Mohamed Othman, and Rozita Johari. 2002. Image Retrieval System Based on Colour Histogram and Median Cut Segmentation. Proceedings of the 7 th . Asian Technology Conference in Mathematics (ATCM 2002), Multimedia University, Malaysia, 17-21 December 2002, pp: 614-623.	International
37.	Walid Saeed Abdoh Al-Shargabi, Omar A. A. Shiba, Md. Nasir Sulaiman, Ali Mamat, Mohd. Hasan Selamat, Mohamed Othman, Fatimah Ahmad , and Azuraliza Abu Bakar. 2003. Classification Algorithms: Experiments and Comparative Study. Proceedings of the Conference on Integrating Technology in the Mathematical Sciences, Universiti Sains Malaysia, Penang, 14-15 April 2003.	National
38.	Salah Mahdi Darwash, Mohd. Hasan Selamat, Mohamed Othman, and Fatimah Ahmad . 2003. Navigating Web Site using Site Map. Proceedings of the Conference on Computer Integrated System (ConCis 2003), Universiti Putra Malaysia, 20-21 May 2003, pp: 151-156.	National
39.	Lilly Suriani Affendey, Ali Mamat, Fatimah Ahmad , and Hamidah Ibrahim. 2003. Query Formulation for Video Database. Prosiding Persidangan Sempena Pameran Pembangunan dan Penyelidikan IPTA 2003, Pusat Dagangan Dunia Putra, 9-12 October 2003, pp: 94.	National
40.	Omar A. A. Shiba, Md. Nasir Sulaiman, Ali Mamat, and Fatimah	International

	Ahmad . 2003. An Efficient and Effective Slicing Classification Method: Experiments and Results. International Conference on Advancement in Science and Technology (iCAST), Malaysia, pp: 54-56.	
41.	Omar A. A. Shiba, Md. Nasir Sulaiman, Ali Mamat, and Fatimah Ahmad . 2003. Enhancing Case Classification Based on Slicing. Proceedings of the 3 rd International Symposium on Communication and Information Technologies (ISCIT 2003), Thailand, Vol. I, pp: 380-385.	International
42.	Omar A. A. Shiba, Md. Nasir Sulaiman, Ali Mamat, and Fatimah Ahmad . 2003. Improving Case Classification Problem Solving Based on Case Slicing. Proceedings of the International Symposium on Information Technology 2003 (ITSiM 2003), Malaysia, Vol. II, pp: 448-456.	International
43.	Omar A. A. Shiba, Md. Nasir Sulaiman, Ali Mamat, and Fatimah Ahmad . 2003. Applying Slicing Technique on Classification Problem in Data Mining. CD Proceedings of AIAI 2003.	International
44.	Omar A. A. Shiba, Md. Nasir Sulaiman, Ali Mamat, and Fatimah Ahmad . 2003. Case Slicing Classifier: Experiments on Two Medical Datasets. Proceedings of the Regional Conference on Integrating Technology in the Mathematical Sciences.	International
45.	Omar A. A. Shiba, Md. Nasir Sulaiman, Ali Mamat, and Fatimah Ahmad . 2003. Classification Algorithms: Experiments and Comparative Study. Proceedings of the Regional Conference on Integrating Technology in the Mathematical Sciences.	International
46.	Omar A. A. Shiba, Md. Nasir Sulaiman, Ali Mamat, and Fatimah Ahmad . 2003. Comparative Study of Data Mining Classification Algorithms. Proceedings of CISAR '03.	International
47.	Omar A. A. Shiba, Md. Nasir Sulaiman, Ali Mamat, and Fatimah Ahmad . 2003. Feature Subset Selection by Slicing. Proceedings of CISAR '03.	International
48.	Omar A. A. Shiba, Walid Saeed Abdoh Al-Shargabi, Md. Nasir Sulaiman, Fatimah Ahmad , and Ali Mamat. 2003. Towards an Optimal Feature Subset Selection. Proceedings of the Student Conference on Research and Development (SCOReD) 2003, Renaissance Palm Garden Hotel, Putrajaya, Malaysia, 25-26 August 2003, pp: 376-380.	National
49.	Omar A. A. Shiba, Md. Nasir Sulaiman, Ali Mamat, and Fatimah Ahmad . 2003. An Evaluation of Case Slicing Technique Against Other Classification Algorithms. To be published in the National Symposium on Science and Technology (MOSTE). (Extended Abstract)	National
50.	Mas Rina Mustaffa and Fatimah Ahmad . 2004. A Review of Content Based Image Retrieval Techniques. CD Proceedings of the Information Technology Colloquium (INTEC 2004), Universiti Putra Malaysia, 1 June 2004.	National
51.	Salah Mahdi Darwash, Mohd. Hasan Selamat, Mohamed Othman, and Fatimah Ahmad . 2004. Usability Testing: Concepts, Attributes & Procedures to Evaluate the Navigation Structure of Web Site. CD Proceedings of the Information Technology Colloquium (INTEC 2004), Universiti Putra Malaysia, 1 June 2004.	National
52.	Loh Gin Hooi, Rahmita Wirza, Selva Kumar, Abdel Magid Hamouda, and Fatimah Ahmad . 2004. Review: Imaging Techniques and	National

	Computer Integrated Surgery in Scoliosis. CD Proceedings of the Information Technology Colloquium (INTEC 2004), Universiti Putra Malaysia, 1 June 2004.	
53.	Siti Salwa Salleh, Rahmita Wirza OK Rahmat, Ramlan Mahmod, and Fatimah Ahmad . 2004. An Audiovisual Data Capture and Extraction for Obtaining Standard Malay Dynamic Visemes Dataset. Proceedings of the MMU International Symposium on Information and Communication Technologies 2004 (M2USIC 2004), Palm Garden Hotel, Putrajaya, Federal Territory, 7-8 October 2004, pp: 12-15.	International
54.	Muhamad Taufik Abdullah, Fatimah Ahmad , Ramlan Mahmod, and Tengku Mohd. Tengku Sembok. 2004. Term Weighting Schemes Experiment on Malay Text Retrieval System. Proceedings of the 2 nd . National Conference on Computer Graphics and Multimedia (CoGRAMM '04), ESSET, Bangi, Selangor, 8-10 December 2004, pp: 377-382.	National
55.	Siti Salwa Salleh, Rahmita Wirza OK Rahmat, Ramlan Mahmod, and Fatimah Ahmad . 2004. Speech Training Application for Hearing-Impaired Children. Proceedings of the 2 nd . National Conference on Computer Graphics and Multimedia (CoGRAMM '04), ESSET, Bangi, Selangor, 8-10 December 2004, pp: 357-360.	National
56.	Muhamad Taufik Abdullah, Fatimah Ahmad , Ramlan Mahmod, and Tengku Mohd. Tengku Sembok. 2004. Performance of Local and Global Weighting Formulas on Malay Information Retrieval. Multimedia Departmental Seminar Proceedings, pp: 45-50.	University
57.	Mas Rina Mustaffa, Fatimah Ahmad , and Rahmita Wirza Rahmat. 2004. Region-Based Image Retrieval using Modified Dominant Colour Region Technique. Multimedia Departmental Seminar Proceedings, pp: 57-60.	University
58.	Mas Rina Mustaffa, Fatimah Ahmad , and Rahmita Wirza Rahmat. 2005. Region-Based Image Retrieval using Modified Sub-Block Technique. Proceedings of the National Computer Science Postgraduate Colloquium 2005 (NaCSPC '05), Universiti Sains Malaysia, 27 – 28 June 2005.	National
59.	Mohd. Juzaidin Ab. Aziz, Fatimah Ahmad , Abdul Azim Abdul Ghani, and Ramlan Mahmod. 2005. Pola Grammar Technique to Identify Subject and Predicate in Malaysian Language. Proceedings of the Second International Joint Conference on Natural Language Processing, Jeju Island, Republic of Korea, 10 - 15 October 2005, pp: 185-190.	International
60.	Muhamad Taufik Abdullah, Fatimah Ahmad , Ramlan Mahmod, and Tengku Mohd. Tengku Sembok. 2005. Improvement of Malay Information Retrieval Using Local Stop Words. Proceedings of the International Advanced Technology Congress 2005 (ATCi2005): Conference on Computer Integrated Systems 2005 (ConCIS 2005), Putrajaya, Malaysia, 6 – 8 December 2005.	International
61.	Muhamad Taufik Abdullah, Fatimah Ahmad , Ramlan Mahmod, and Tengku Mohd. Tengku Sembok. 2005. A Stemming Algorithm for Malay Language. Proceedings of the 4 th . International Conference on Information Technology in Asia 2005 (CITA '05), Kuching, Sarawak, Malaysia, 12 – 15 December 2005.	International
62.	Mohd. Juzaidin Ab. Aziz, Fatimah Ahmad , Abdul Azim Abdul Ghani,	National

	and Ramlan Mahmod. 2005. <i>Semantik Ayat Bahasa Melayu: Analisis Terhadap Kata Kerja</i> . Prosiding Seminar Kebangsaan Capaian Maklumat dan Pengurusan Pengetahuan (CAMP '05), ESSET (KWSP), Kajang, Selangor, Malaysia, 20 December 2005.	
63.	Siti Salwa Salleh, Rahmita Wirza Rahmat, Ramlan Mahmod, and Fatimah Ahmad . 2006. Analysis-synthesis of Acoustic and Visual Speech Signals. Proceedings of the International Conference on Computer and Communication Engineering, ICCCE'06, Vol. 11, 9-11 May 2006, Kuala Lumpur, pp: 983-987 (ISBN 983-43090-1-5).	International
64.	Mas Rina Mustaffa, Fatimah Ahmad , Rahmita Wirza, and Ramlan Mahmod. 2006. Content-Based Image Retrieval Using Integrated Colour-Spatial Approach. Proceedings of the Regional Computer Science Postgraduate Conference (ReCSPC'06), Penang, 27-28 June 2006.	International
65.	Anwar Ali, Ramlan Mahmod, Fatimah Ahmad , and Md. Nasir Sulaiman. 2006. Enhanced Bayesian Networks Model for Dialogue Act Recognition in Dialogue System. International Symposium on Information and Communication Technologies (M2USIC 2006), Multimedia University, 16-17 November 2006.	International
66.	Az Azrinudin Alidin, Shyamala Doraisamy, and Fatimah Ahmad . 2006. Combining User Context Extraction and Data Fusion for Retrieval Precision Improvement. Proceedings of the MMU International Symposium on Information and Communications Technologies (M2USIC 2006), Multimedia University, Selangor, 16-17 November 2006, pp: 253-256.	International
67.	Az Azrinudin Alidin, Shyamala Doraisamy, and Fatimah Ahmad . 2006. Incorporating Data Fusion Towards Improving Contextual Retrieval Precision. International Conference on Information and Communication Technology for the Muslim World 2006 (ICT4M 2006), Kuala Lumpur, 21-23 November 2006.	International
68.	Anwar Ali, Ramlan Mahmod, Fatimah Ahmad , and Md. Nasir Sulaiman. 2006. Dynamic Bayesian Networks for Intention Recognition in Conversational Agent. 3 rd . International Conference on Artificial Intelligence in Engineering and Technology (iCAiET2006), Universiti Malaysia Sabah, Kota Kinabalu, Sabah, 22-24 November 2006.	International
69.	Muhamad Taufik Abdullah, Fatimah Ahmad , Ramlan Mahmod, and Tengku Mohd. Tengku Sembok. 2006. The Affect of Hyphen on Information Indexing and Retrieval. Proceedings of the Malaysian Science and Technology Congress 2006, Kuala Lumpur, pp: 342-346.	National
70.	Mohammad Khatim Hasan, Mohamed Othman, Zulkifly Abbas, Jumat Sulaiman, and Fatimah Ahmad . 2007. 2D Parallel Solver for Free Space Wave Propagation on Distributed Memory Multi-Processor Machine. IEEE Proceedings of the International Conference on Electrical Engineering and Informatics, Institut Teknologi Bandung, Indonesia, 17-19 June 2007, No. 2, pp: 1000-1003.	International
71.	Mohammad Khatim Hasan, Mohamed Othman, Zulkifly Abbas, Jumat Sulaiman, and Fatimah Ahmad . 2007. Distributed Memory Algorithm for Wave Propagation Simulation. Proceedings of the Symposium Kebangsaan Sains Matematik Ke-15 (SKSM-15), Concorde Hotel, Shah Alam, Malaysia, 5-7 June 2007, pp: 205-210.	National

72.	Mas Rina Mustaffa, Fatimah Ahmad , Rahmita Wirza O.K. Rahmat, and Ramlan Mahmod. 2007. An Integrated Color-Spatial Approach for Content-Based Image Retrieval. Proceedings of the 2007 International Conference on Multimedia Systems and Applications (MSA '07), WorldComp'07, Las Vegas, Nevada, USA, 25-28 June 2007, pp: 23-29.	International
73.	Az Azrinudin Alidin, Shyamala Doraisamy, and Fatimah Ahmad . 2007. Precision Improvement using Contextual Retrieval and Data Fusion Approaches. Proceedings of the Fifth International Conference on Information Technology in Asia 2007 (CITA '07), Kuching, Sarawak, 9-12 July 2007, pp: 28-35.	International
74.	Siti Salwa Salleh, Rahmita Wirza Rahmat, Ramlan Mahmod, and Fatimah Ahmad . 2007. A Novel Approach to Define Parametric Polynomial Function for Lips Motion Estimation. Proceedings of the Fifth International Conference on Information Technology in Asia 2007 (CITA '07), Kuching, Sarawak, 9-12 July 2007, pp: 210-215.	International
75.	Lilly Suriani Affendey, Ali Mamat, Hamidah Ibrahim, and Fatimah Ahmad . 2007. Data Modelling for Video Databases. Proceedings of the Fifth International Conference on Information Technology in Asia 2007 (CITA '07), Kuching, Sarawak, 9-12 July 2007, pp: 359-361.	International
76.	Anwar Ali Yahya, Ramlan Mahmod, and Fatimah Dato Ahmad . 2007. Variable Length Genetic Algorithm for Feature Selection in High Dimensional Domains. Proceedings of the International Conference on Robotics, Vision, Information and Signal Processing (ROVISP2007), Universiti Sains Malaysia, Pulau Pinang, 28-30 November 2007. Best Paper Award.	International
77.	Khor Siak Wang and Fatimah Ahmad . 2008. PSA Approach for Image Search in Fabric Images. Proceedings of the 4 th . International Colloquium on Signal Processing and its Applications (CSPA 2008), Kuala Lumpur, Malaysia, 7-9 March 2008, pp: 536-538.	International
78.	Sajjal Divakaran and Fatimah Ahmad . 2008. Content-based Image Retrieval: A Brief Overview. Proceedings of the National Conference on Information Retrieval and Knowledge Management 2008, Palace Beach and Spa, MINES, Kuala Lumpur, Malaysia, 18 March 2008, pp: 88-91.	National
79.	Khor Siak Wang and Fatimah Ahmad . 2008. Histogram-based Approaches for Colour Image Retrieval. Proceedings of the National Conference on Information Retrieval and Knowledge Management 2008, Palace Beach and Spa, MINES, Kuala Lumpur, Malaysia, 18 March 2008, pp: 113-119.	National
80.	Khor Siak Wang and Fatimah Ahmad . 2008. Efficiency of Colour Coherent Vector as a Technique for Colour-based Image Retrieval. Proceedings of the National Conference on Information Retrieval and Knowledge Management 2008, Palace Beach and Spa, MINES, Kuala Lumpur, Malaysia, 18 March 2008, pp: 120-125.	National
81.	Mas Rina Mustaffa and Fatimah Ahmad . 2008. A Comparative Study of Shape Descriptors for Content-based Image Retrieval. Proceedings of the National Conference on Information Retrieval and Knowledge Management 2008, Palace Beach and Spa, MINES, Kuala Lumpur, Malaysia, 18 March 2008, pp: 140-145.	National
82.	Az Azrinudin Alidin, Shyamala Doraisamy and Fatimah Ahmad . 2008.	National

	Improving Retrieval Precision by Combining User Context and Data Fusion. Proceedings of the National Conference on Information Retrieval and Knowledge Management 2008, Palace Beach and Spa, MINES, Kuala Lumpur, Malaysia, 18 March 2008, pp: 197-203. Best Paper Award.	
83.	Mohd. Juzaidin Ab. Aziz, Fatimah Dato Ahmad , Abdul Azim Abdul Ghani, and Ramlan Mahmod. 2008. <i>Pengecaman Hubungan Nahu Ayat Bahasa Melayu Menggunakan Kata Kerja dan Kata Hubung</i> . Proceedings of the National Conference on Information Retrieval and Knowledge Management 2008, Palace Beach and Spa, MINES, Kuala Lumpur, Malaysia, 18 March 2008, pp: 217-221.	National
84.	Mohammad Said El-Bashir, Rahmita Wirza O.K. Rahmat, Fatimah Ahmad , and Md. Nasir Sulaiman. 2008. Principal Components Analysis for Hindi Digits Recognition. Proceedings of the International Conference on Computer and Communication Engineering 2008, Kuala Lumpur, Malaysia, 13-15 May 2008, pp: 738-740.	International
85.	Khor Siak Wang and Fatimah Ahmad . 2008. Texture-based Image Search of Fashion Designs. Proceedings of the Knowledge Management International Conference 2008 (KMICe'08), Langkawi, Kedah Darul Aman, Malaysia, 10-12 June 2008, pp: 35-37.	International
86.	Lilly Suriani Affendey, Ali Mamat, Hamidah Ibrahim, and Fatimah Ahmad . 2008. Hybrid Query for Video Database System. Proceedings of the Knowledge Management International Conference 2008 (KMICe'08), Langkawi, Kedah Darul Aman, Malaysia, 10-12 June 2008, pp: 327-332.	International
87.	Mohd. Juzaidin Ab. Aziz, Fatimah Dato Ahmad , Abdul Azim Abdul Ghani, and Ramlan Mahmod. 2008. Identify Malay Sentence Similarity Based on Pola Grammar Algorithm. Proceedings of the 12 th . WSEAS International Conference on Computers, Heraklion, Crete Island, Greece, 23-25 July, 2008, pp: 922-927.	International
88.	Mas Rina Mustafa, Fatimah Ahmad , Rahmita Wirza O.K. Rahmat, and Ramlan Mahmod. 2008. Dominant Colour Descriptor with Spatial Information for Content-based Image Retrieval. Proceedings of the International Symposium on Information Technology 2008 (ITSIM '08), Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia, 26-29 August 2008, pp: 1612-1620.	International
89.	Mohd. Juzaidin Ab. Aziz, Fatimah Dato Ahmad , Abdul Azim Abdul Ghani, and Ramlan Mahmod. 2009. Automated Marking System for Short Answer Examination (AMS-SAE). Proceedings of the 2009 IEEE Symposium on Industrial Electronics and Applications (ISIEA 2009), Kuala Lumpur, Malaysia, 4-6 October 2009, pp: 47-51.	International
90.	Mas Rina Mustafa, Fatimah Ahmad , Ramlan Mahmod, and Shyamala Doraisamy. 2009. Generalized Ridgelet-Fourier for $M \times N$ Images: Determining the Normalization Criteria. Proceedings of the 2009 IEEE International Conference on Signal and Image Processing Applications (ICSIPA'09), Cititel Mid Valley Hotel, Kuala Lumpur, Malaysia, 18-19 November 2009.	International
91.	Mas Rina Mustafa, Fatimah Ahmad , Ramlan Mahmod, and Shyamala Doraisamy. 2010. Shape Descriptor based on Invariant Generalised Ridgelet Transform for $M \times N$ Images. Proceedings of the Seventh IASTED International Conference on Signal Processing, Pattern Recognition and Applications (SPPRA 2010), Innsbruck,	International

	Austria, 17-19 February, 2010, pp: 138-145.	
92.	Mas Rina Mustaffa, Fatimah Ahmad , Ramlan Mahmod, and Shyamala Doraisamy. 2010. Invariant Generalised Ridgelet-Fourier for Shape-based Image Retrieval. Proceedings of the 2010 International Conference on Information Retrieval and Knowledge Management, Shah Alam Convention Centre (SACC), Shah Alam, Selangor, Malaysia, 17-18 March 2010, pp: 79-84. (Best Paper Award)	International
93.	Kweh Yeah Lun, Mohamed Othman, Fatimah Dato Ahmad , and Hamidah Ibrahim. 2010. Statistical Fixed Range Multiple Selection Algorithm for Peer-to-Peer System. Proceedings of the 2010 International Conference on Computer Applications and Industrial Electronics (ICCAIE 2010), Seri Pacific Hotel, Kuala Lumpur, Malaysia, 5-7 December 2010, pp: 619-623.	International
94.	Mohamed Othman, Kweh Yeah Lun, Fatimah Dato Ahmad , and Hamidah Ibrahim. 2011. Static Range Multiple Selection Algorithm for Peer-to-Peer System. Proceedings of the International MultiConference of Engineers and Computer Scientists 2011 (IMECS 2011), Hong Kong, 16-18 March 2011.	International
95.	Tengku Mohd. T. Sembok, Zainab Abu Bakar, and Fatimah Ahmad . 2011. Experiments in Malay Information Retrieval. Proceedings of the 2011 International Conference on Electrical Engineering and Informatics (ICEEI 2011), Institut Teknologi Bandung, Bandung, Indonesia, 17-19 July 2011.	International
96.	Mas Rina Mustaffa, Fatimah Ahmad , Ramlan Mahmod, and Shyamala Doraisamy. 2012. Multi-resolution Joint Auto Correlograms: Determining the Distance Function. Proceedings of the 2012 International Conference on Information Retrieval and Knowledge Management, Mines Wellness Hotel, Kuala Lumpur, Malaysia, 13-15 March 2012, pp: IR2-30.	International
97.	Muhd. Nabil Ahmad Zawawi, Ramlan Mahmod, Nur Izura Udzir, Fatimah Ahmad , and Jalil Mohd. Desa. 2012. Active Warden as the Main Hindrance for Steganography Information Retrieval. Proceedings of the 2012 International Conference on Information Retrieval and Knowledge Management, Mines Wellness Hotel, Kuala Lumpur, Malaysia, 13-15 March 2012, pp: IR18-113.	International
98.	Mas Rina Mustaffa, Fatimah Ahmad , and Shyamala Doraisamy. 2014. Multi-resolution Shape-based Image Retrieval using Ridgelet Transform. Proceedings of the 10 th . Asia Information Retrieval Society Conference (AIRS 2014), Grand Margherita Hotel, Kuching, Sarawak, Malaysia, 3-5 December 2014, pp:112-123.	International
99.	Mary Ting, Rabiah Abdul Kadir, Tengku Mohd Tengku Sembok, Fatimah Ahmad , and Azreen Azman. 2014. Feasibility Study Concerning the Use of Reasoning Technique in Semantic Reasoners. Proceedings of the 10 th . Asia Information Retrieval Society Conference (AIRS 2014), Grand Margherita Hotel, Kuching, Sarawak, Malaysia, 3-5 December 2014, pp: 371-381.	International

3.0 ACADEMIC RECOGNITION AND LEADERSHIP, CONSULTANCY, SERVICE TO THE UNIVERSITY AND SERVICE TO THE COMMUNITY

(a) Academic Recognition and Leadership

Academic recognition and leadership such as Academic Award, Academic Assessor/External Examiner/Ph.D. Thesis Examiner, Master's Thesis Examiner/Promotion Assessor (External), Internal Thesis Examiner, Visiting Professor/Fellowship, Invited Speaker, Editorial Board and other academic recognition. (Please list in chronological order and state: Academic Recognition (e.g. award name, invited speakers, etc.), year, level and awarding body/ name of institution)

No.	Academic Recognition	Year	Level	Awarding Body / Name of Institution
1.	Excellent Service Award	1997, 2006	University	Universiti Putra Malaysia
2.	External examiner of a Master of Science student, Ravie Chandren a/l Muniyandi, with dissertation title <i>"Rangkaian Neural: Satu Penerokaan Dalam Sistem Pencapaian Dokumen"</i>	1997	National	Universiti Kebangsaan Malaysia
3.	External examiner of a Master of Information Technology student, Kulothunkan Palasundram, with dissertation title <i>"Kajian Teknik-teknik Padanan Perkataan dan Pembangunan Perisian Penterjemahan Istilah Inggeris-Melayu"</i>	1998	National	Universiti Kebangsaan Malaysia
4.	Internal examiner of a PhD student, Minni Ang Kim Huai, with thesis title "A Layered Architectural Model for Music Education: Malaysian Music on the World Wide Web"	1998	University	Universiti Putra Malaysia
5.	External examiner of a Master of Science student, Amirah Ismail, with dissertation title <i>"Perbandingan Keberkesanan Capaian Antara Enjin Gelintar"</i>	2000	National	Universiti Kebangsaan Malaysia
6.	Chairperson of the Information Technology Colloquium, Residence Hotel, UNITEN on 28 September 2000	2000	National	Universiti Putra Malaysia
7.	Internal examiner of a	2001	University	Universiti Putra Malaysia

	Master of Science student, Maya Silvi Lydia, with dissertation title "Backus-Naur Form Based Script Definition Language for Multimedia Presentation Document"			
8.	Chairperson of the National Conference on Research and Development in Computer Science (REDECS 2001), Residence Hotel, UNITEN on 25 October 2001	2001	National	Computer Society with UPM and UNITEN
9.	Malaysia Women's Scientist Exhibition at the National Science Centre	2002	National	National Science Centre
10.	Internal examiner of a Master of Science student, Suzaimah Ramli, with dissertation title " <i>Reka Bentuk dan Implementasi Suatu Penghurai Bahasa Melayu Menggunakan Sistem Logik Selari</i> "	2002	University	Universiti Putra Malaysia
11.	External examiner of a Master of Science student, Ita Nurazlin Mohd. Sahlan, with dissertation title " <i>Kajian Penggunaan Laman Enjin Pencari Tempatan dan Antarabangsa: Suatu Perbandingan</i> "	2003	National	Universiti Kebangsaan Malaysia
12.	Internal examiner of a Master of Science student, Akram Mohammed Zeki Khedher, with dissertation title "Framework for Evaluating Programming Languages for Computer Graphics"	2003	University	Universiti Putra Malaysia
13.	External examiner of a Master of Science student, Sulaiman Kaiat, with dissertation title " <i>Pelabelan Golongan Kata Bahasa Melayu: Pengautomasian Petua Morfologi Menggunakan Teknik Penapisan dan Pengasingan</i> "	2004	National	Universiti Kebangsaan Malaysia

14.	External examiner of a Master of Science student, Sopiah Ishak, with dissertation title "Designing an Interactive Multimedia Model: Case Study of German-Malay Language"	2004	National	Universiti Teknologi MARA
15.	Internal examiner of a PhD student, Mohammed Abdullah Hassan Al-Hajri, with thesis title "New Complexity Weights for Function Point Analysis Using Artificial Neural Networks"	2004	University	Universiti Putra Malaysia
16.	Internal examiner of a Master of Science student, Gee Yoke Ting	2004	University	Universiti Putra Malaysia
17.	Chairperson of the 2 nd . National Conference on Computer Graphics and Multimedia (CoGRAMM '04) on 8-10 December 2004	2004	National	Universiti Teknologi Malaysia
18.	Silver Medal for the project titled "Content-Based Image Retrieval Based on Colour" at The Invention, Research and Innovation Exhibition	2005	University	Universiti Putra Malaysia
19.	Silver Medal for the project titled " <i>Pengakar untuk Dapatan Semula Maklumat Bahasa Melayu</i> " at The Invention, Research and Innovation Exhibition	2005	University	Universiti Putra Malaysia
20.	Bronze Medal for the project titled "Preprocessing Techniques for Storing Video Metadata" at The Invention, Research and Innovation Exhibition	2005	University	Universiti Putra Malaysia
21.	External examiner of a PhD student, Issham Isa, with thesis title "Hybrid Process for Development of Multimedia User Interface"	2005	National	Universiti Utara Malaysia
22.	Internal examiner of a Master of Science student, Ng Keng Yap, with	2005	University	Universiti Putra Malaysia

	dissertation title "Development and Evaluation of a Software Metrics Markup Language"			
23.	Gold Medal for the project titled "New Method for Arabic Optical Character Recognition" at The Invention, Research and Innovation Exhibition	2006	University	Universiti Putra Malaysia
24.	Silver Medal for the project titled "An Improved Time Domain Wave Propagation Finite Difference Algorithm" at The Invention, Research and Innovation Exhibition	2006	University	Universiti Putra Malaysia
25.	Bronze Medal for the project titled "Content-based Image Retrieval using Integrated Colour-Spatial Approach" at The Invention, Research and Innovation Exhibition	2006	University	Universiti Putra Malaysia
26.	Bronze Medal for the project titled "Colour-Based Image Retrieval using Statistical-Based Colour Pattern Code Approach" at The Invention, Research and Innovation Exhibition	2006	University	Universiti Putra Malaysia
27.	Bronze Medal for the project titled "Automated Essay Grading: An Evolution for Malay Language" at The Invention, Research and Innovation Exhibition	2006	University	Universiti Putra Malaysia
28.	Internal examiner of a Master of Science student, Md. Nabil Ahmad Zawawi, with dissertation title "A Robust Cover Generation Technique for Steganography Using 2D Images"	2006	University	Universiti Putra Malaysia
29.	Internal examiner of a Master of Science student, Khairul Azhar Kasmiran, with dissertation title "Graphical User Interface	2006	University	Universiti Putra Malaysia

	Layout Language Using Combinators”			
30.	Gold Medal for the project titled “Synthesizing Visual Speech using Altered 6 th . Order Polynomial Function as the Motion Path” at The Invention, Research and Innovation Exhibition	2007	University	Universiti Putra Malaysia
31.	Gold Medal for the project titled “Finite Difference Solution to Time Domain Maxwell Equations” at The Invention, Research and Innovation Exhibition	2007	University	Universiti Putra Malaysia
32.	Bronze Medal for the project titled “Combining Contextual Retrieval and Data Fusion for Retrieval Precision Improvement” at The Invention, Research and Innovation Exhibition	2007	University	Universiti Putra Malaysia
33.	Internal examiner of a PhD student, Ungku Azmi Iskandar Ungku Chulan, with thesis title “Connector-based Extraction with Concept Relational Parser for Extracting Semantic Relation from Text”	2007	University	Universiti Putra Malaysia
34.	Internal examiner of a PhD student, Fatimah Sidi, with thesis title “Transformation of Extracted Knowledge in Malay Unstructured Documents into an Interrogative Structured Form”	2007	University	Universiti Putra Malaysia
35.	Chairperson of the 2007 International Conference on Multimedia Systems and Applications, Monte Carlo Hotel and Resort, Las Vegas, USA on 25-28 June 2007	2007	International	World Academy of Science
36.	Chairperson of the 3 rd . Malaysian Software Engineering Conference, Palace Beach and Spa (MINES), Selangor on 3-4 December 2007	2007	National	Universiti Putra Malaysia
37.	External Assessor of the	2008	National	Universiti Kebangsaan

	ICT field for the 2007 UKM Research Evaluation			Malaysia
38.	Bronze Medal for the project titled "Automated Essay Grading System: An Evaluation of the Malay Language Structure" at The Malaysia Technology Expo 2008	2008	National	Malaysia Technology Expo
39.	Bronze Medal for the project titled "Altered 6 th . Order Polynomial Function as the Motion Path" at The Malaysia Technology Expo 2008	2008	National	Malaysia Technology Expo
40.	Best Paper Award for the article titled "Improving Retrieval Precision by Combining User Context and Data Fusion" at the National Conference on Information Retrieval and Knowledge Management 2008	2008	National	National Conference on Information Retrieval and Knowledge Management
41.	External examiner of a Master of Information Technology student, Narges Mahyar, with dissertation title "Implementation of Creative-Pad: A New Creativity Support Tool"	2008	National	Universiti Malaya
42.	Chairperson of the National Conference on Information Retrieval and Knowledge Management 2008 (CAMP'08), Palace Beach and Spa, MINES, Kuala Lumpur on 18 March 2008	2008	National	Universiti Pertahanan Nasional Malaysia
43.	Promotion Assessor (External) for the post of Associate Professor (DS54) for an academic staff from UKM, Dr. Azlina Ahmad	2009	National	Universiti Kebangsaan Malaysia
44.	Silver Medal for the project titled "Static Filter Range Selection Algorithm for Peer-to-Peer Network" at The Invention, Research and Innovation Exhibition	2009	University	Universiti Putra Malaysia

45.	Setia Putra Award 2009 (20 years of service at Universiti Putra Malaysia)	2009	University	Universiti Putra Malaysia
46.	Internal examiner of a Master of Science student, Elham Bagherian, with dissertation title "A Robust Method for Facial Feature Extraction based on Corner Detection"	2009	University	Universiti Putra Malaysia
47.	Member of the Information and Communication Technology (ICT) Cluster	2010	National	National Council of Professors
48.	Bronze Medal for the project titled "Static Filter Range Selection Algorithm for Peer-to-Peer Network" at The Malaysia Technology Expo 2010	2010	National	Malaysia Technology Expo
49.	Best Paper Award for the article titled "Invariant Generalised Ridgelet-Fourier for Shape-based Image Retrieval" at the International Conference on Information Retrieval and Knowledge Management 2010	2010	International	International Conference on Information Retrieval and Knowledge Management
50.	External examiner of a PhD student, Mohd Zakree bin Ahmad Nazri, with thesis title "Taxonomy Learning from Malay Texts Using Hybridized Artificial Immune System"	2010	National	Universiti Teknologi Malaysia
51.	Chairperson of the International Conference on Information Retrieval and Knowledge Management 2010 (CAMP'10), Shah Alam Convention Centre, Shah Alam, Selangor on 16-18 March 2010	2010	International	Universiti Teknologi MARA
52.	Chairperson of the Graduate Colloquium, Universiti Pertahanan Nasional Malaysia, Sg. Besi Camp, Kuala Lumpur on 26 May 2010	2010	University	Universiti Pertahanan Nasional Malaysia
53.	Chairperson of the 4 th . International Symposium	2010	International	Universiti Kebangsaan Malaysia

	on Information Technology (ITSim'10), Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur on 15-17 June 2010			
54.	Chairperson of the Graduate Colloquium, Universiti Pertahanan Nasional Malaysia, Sg. Besi Camp, Kuala Lumpur on 23-24 November 2010	2010	University	Universiti Pertahanan Nasional Malaysia
55.	Judge for the ICT area at PECIPTA 2011	2011	International	International Conference and Exposition on Inventions of Institutions of Higher Learning
56.	External examiner of a Master of Software Engineering student, Rosmiza Wahida binti Abdullah, with dissertation title "Computer-based Support Tool for Visualization of Brain Anatomy"	2011	National	Universiti Malaya
57.	Internal examiner of a Master of Science student, Elham Bagherian, with dissertation title "A Robust Method for Facial Feature Extraction based on Corner Detection"	2011	University	Universiti Putra Malaysia
58.	Internal examiner of a PhD student, Siti Hanom binti Marjuni, with thesis title "Interrogative Elements and Verb-Noun Ranking for Criminal Chatting Forensics"	2011	University	Universiti Putra Malaysia
59.	Chairperson of the 2011 International Conference on Electrical Engineering and Informatics (ICEEI 2011), Institut Teknologi Bandung, Bandung, Indonesia, on 17-19 July 2011	2011	International	Institut Teknologi Bandung
60.	Chairperson of the 2 nd . International Visual Informatics Conference, Equatorial Hotel, Bangi, Selangor on 9-10 November 2011.	2011	International	Universiti Kebangsaan Malaysia

	(Chairperson of Keynote Speech)			
61.	Cross Evaluator of Websites/Portals of Departments, Agencies, Institutions of Higher Learning, Polytechnics and Colleges under the Ministry of Higher Education	2012	National	Ministry of Higher Education
62.	Promotion Assessor (External) for the post of Professor (VK7) for an academic staff from UUM, Assoc. Prof. Dr. Suhaidi bin Hassan	2012	National	Universiti Utara Malaysia
63.	Member of the Programme Advisory Panel for Faculty of Science and Technology, Universiti Sains Islam Malaysia: Master of Computer Science Programme (Enterprise Informatics) and Master of Computer Science (Intelligent System Technology)	2012	National	Universiti Sains Islam Malaysia
64.	External examiner of a PhD student, Salha Mohammed M. Alzahrani, with thesis title "Plagiarism Screening in Scientific Publications using Structural Information and Fuzzy Semantic Similarity"	2012	National	Universiti Teknologi Malaysia
65.	External examiner of a PhD student, Mazni binti Omar, with thesis title "The Effectiveness of an Agile Software Methodology: Empirical Evidence and Prediction Model"	2012	National	Universiti Teknologi MARA
66.	Internal examiner of a Master of Science student, Nordianah binti Ab Samat, with dissertation title "Multi-Algorithm Method and Double Singular Value Decomposition for Malay Documents Clustering"	2012	University	Universiti Putra Malaysia
67.	Editorial Board of the Journal of Information	2012	National	Society of Information Retrieval and Knowledge

	Retrieval and Knowledge Management (JIRKM)			Management (Malaysia)
68.	Chairperson of the 2012 International Conference on Information Retrieval and Knowledge Management, Mines Wellness Hotel, Kuala Lumpur, 13-15 March 2012. (Chairperson of Keynote Speech)	2012	International	Universiti Putra Malaysia
69.	Promotion Assessor (External) for the post of Senior Lecturer / Research Fellow at the Institute of Visual Informatics, UKM for an academic staff from UPM, Dr. Rabiah binti Abdul Kadir	2013	National	Universiti Kebangsaan Malaysia
70.	Editorial Board of the Publishing Centre, UPNM	2013	University	Universiti Pertahanan Nasional Malaysia
71.	Promotion Assessor (External) for the post of Associate Professor (DS54) for an academic staff from UKM, Dr. Mohammad Faidzul bin Nasrudin	2014	National	Universiti Kebangsaan Malaysia
72.	Multimedia Information Retrieval Track Chair for the Asia Information Retrieval Society Conference 2014 (AIRS 2014)	2014	National	Asia Information Retrieval Society Conference 2014 (AIRS 2014)

(b) Consultancy - Consultancy work that benefited to the University

(Please list in chronological order and state: title, year, sponsor, value, main researchers and duration of consultancy)

No.	Title	Year	Sponsor	Value	Duration
1.	Question drafter, moderator and evaluator committee member of examination papers in Computing for Malaysia Higher School Certificate (STPM)	1997	Malaysian Examinations Council	Nil	1997 – present
2.	Coordinator of franchised Diploma in Computer Science programme	1998	Kolej Kurniawan and Kolej TISC	Some amount of percentage given to UPM	1998 – 1999

No.	Title	Year	Sponsor	Value	Duration
3.	Coordinator of franchised Diploma in Computer Science programme	1998	Institut Pembangunan Sumber Manusia (IPSM)	Some amount of percentage given to UPM	1998 – 2002
4.	Evaluator panel member of National Accreditation Board (LAN) for Bachelor of Technology (Hons.) (Information Technology)/(Information Systems) programmes at Universiti Teknologi Petronas	1998	Universiti Teknologi Petronas	Nil	1998 – 1999
5.	Chief examiner of the STPM Computing paper	2000	Malaysian Examinations Council	Nil	2000
6.	Committee member of the Ministry of Education Malaysia Matriculation Programme Computer Science Curriculum Revision	2000	Ministry of Education Malaysia	Nil	2000 – 2001
7.	Examiner of the Computer Science (Multimedia) subject for the Matriculation Programme Semester Examination (PSPM) session 2000/2001	2000	Ministry of Education Malaysia	Nil	2000 – 2001
8.	Evaluator head of Ministry of Education's Matriculation Multimedia examination questions	2000	Ministry of Education Malaysia	Nil	2000 – 2002
9.	Committee member of the STPM Computing Subject Syllabus	2000	Malaysian Examinations Council	Nil	2000 – 2003
10.	Examiner of the STPM Computing paper	2001	Malaysian Examinations Council	Nil	2001 – 2002
11.	Evaluator panel member of National Accreditation Board (LAN) for the Engineering and Technology field	2001	National Accreditation Board (LAN)	Nil	2001 – 2002
12.	JUMPA BSK expert to evaluate the quality of academic programmes at the Cybernetics International Technology	2004	Cybernetics International Technology College	Some amount of percentage given to UPM	2004

No.	Title	Year	Sponsor	Value	Duration
	College				
13.	SAK 3103 – Discrete Structures course coordinator for UPM and Cybernetics International Technology College collaboration programme	2004	Cybernetics International Technology College	Some amount of percentage given to UPM	2004
14.	Panel member of STPM Computing Syllabus revision	2004	Malaysian Examinations Council	Nil	2004 – 2010
15.	Evaluator panel member of IPTA Quality Assurance for Universiti Sains Malaysia	2004	Universiti Sains Malaysia	Nil	2004
16.	Committee member of the drafting of the STPM Computing Course Work Assignment Questions	2006	Malaysian Examinations Council	Nil	2006 – 2013
17.	Evaluator panel member of KBSM textbook/module on Creative Multimedia Development, Ministry of Education Malaysia	2006	Ministry of Education Malaysia	Nil	2006 – 2008
18.	Evaluator panel member of STPM Computing examination questions	2006	Malaysian Examinations Council	Nil	2006 – 2011
19.	Evaluator panel member of STPM Information and Communications Technology (ICT) examination questions	2012	Malaysian Examinations Council	Nil	2012 – present

(c) Service to the University

Service to the university such as Vice Chancellor/Deputy Vice Chancellor/Dean/Director, Deputy Dean/Deputy Director/Unit Coordinator/Hostel Warden, Programme Chairperson/ Assistant Warden/Fellow. Representing University in Sports and Other Non-Academic Activities. Professional/Academic Association (Committee Member).

(Please list in chronological order and state: position/membership, committee and duration)

No.	Position/Membership	Committee	Duration
1.	Academic Advisor	Academic Advisor's Committee (Diploma, Bachelor and Master), UPM	July 1988 – November 1991
2.	Committee Member	Meeting between Centre of Quantitative Studies, UKM and Department of Mathematics, UPM members Small Committee	January 1989

3.	Coordinator	Industrial Training for Bachelor of Computer Science students, UPM	January 1989 – December 1991
4.	Member	Faculty of Science and Environmental Studies Islamic Thinker's Group, UPM	January 1989 – September 1996
5.	Committee Member	Eksponen magazine, UPM	March 1989 – February 1990
6.	Committee Member	Level Evaluator	May 1989
7.	Member	Students' Supervision Committee, UPM	December 1989 – November 1991
8.	Department's Representative	Faculty of Science and Environmental Studies Vehicle's Policy Small Committee, UPM	June 1991 – December 1991
9.	Committee Member	Faculty of Science and Environmental Studies Extension and Publicity Committee, UPM	July 1995 – September 1998
10.	Academic Advisor	Academic Advisor's Committee (Diploma, Bachelor, Master and Ph.D.), UPM	July 1995 – December 2008
11.	Committee Member	Postgraduate Students Supervisory Committee, UPM	July 1995 – December 2008
12.	Secretary	National Conference of Research and Development in Computer Science and its Applications (REDECS '96) Committee	November 1995 – June 1996
13.	Member	Malaysian National Computer Confederation (MNCC)	January 1996 – present
14.	Exco Member	UPM Academic Staff Society (PPAUPM)	January 1996 – November 1998
15.	Coordinator	Postgraduate Programmes, UPM	May 1996 – December 1998
16.	Principal Committee Member	Young Scientist Camp programme, UPM	October 1996 – September 1998
17.	Assistant Secretary	Faculty of Science and Environmental Studies Islamic Thinker's Group, UPM	October 1996 – September 1998
18.	Treasurer	Department of Mathematics and Department of Computer Science Fund, UPM	November 1996 – December 2008

19.	Administrator	Department of Computer Science Learning Centre for Distance Education students, UPM	December 1996 – November 1998
20.	Moderator and Evaluator Committee Member	Examination papers in Computer Science for Malaysia Higher School Certificate (STPM) under Malaysian Examinations Council	February 1997 – present
21.	Committee Member	Information Technology Colloquium (INTEC '97) Organizing Committee	May 1997
22.	Coordinator	Bachelor of Computer Science Final Year Students' Seminar, UPM	May 1997 – October 1997
23.	Member	1997 Selangor State Level of Science and Technology Week Small Committee	October 1997 – November 1997
24.	Module Assessor	SAK 3601 (Computer Graphics) course for Bachelor of Computer Science Distance Learning Programme students, UPM	January 1998
25.	Coordinator	Franchised Diploma in Computer Science programme at Kolej Kurniawan and Kolej TISC	April 1998 – September 1999
26.	Coordinator	Franchised Diploma in Computer Science programme at Institut Pembangunan Sumber Manusia	April 1998 – January 2002
27.	Coordinator	Bachelor of Computer Science Final Year Students' Seminar	May 1998 – October 1998
28.	Evaluator Panel Member	National Accreditation Board (LAN) for Bachelor of Technology (Hons.) (Information Technology)/(Information Systems) programmes at Universiti Teknologi Petronas, Tronoh, Perak	October 1998 - September 1999
29.	Coordinator	SAK 1102 (Cobol Programming) course for Diploma in Computer Science franchised	November 1998 – March 1999

		programme	
30.	Department's Representative	UPM New Act Committee, UPM	November 1998 – December 2008
31.	Examiner	Computer Science examination papers for Malaysia Higher School Certificate (STPM) students under Malaysian Examinations Council, Malaysia	December 1998
32.	Head	Department of Multimedia, Faculty of Computer Science and Information Technology, UPM	December 1998 – November 2006 (8 years)
33.	Committee Member	FSKTM Management Committee, UPM	December 1998 – December 2008
34.	Committee Member	FSKTM Curriculum Committee, UPM	December 1998 – November 2006
35.	Committee Member	FSKTM Research Committee, UPM	December 1998 – December 2008
36.	Committee Member	FSKTM Postgraduate Degree Committee, UPM	December 1998 – December 2008
37.	Member	FSKTM Welfare and Social Club	December 1998 – December 2008
38.	Faculty's Representative	Private Institutions of Higher Learning (IPTS) Moderation of Answer Scripts Small Committee	February 1999 – November 2001
39.	Committee Member	Integrity of Administration Management for Faculty of Computer Science and Information Technology, UPM	April 1999 – December 2008
40.	Coordinator	SIM 3202 (Human-Computer Interaction) course for Bachelor of Computer Science franchised programme, UPM	May 1999 – November 1999
41.	Examiner	Computer Science examination papers for Matriculation students under Ministry of Education, Malaysia	June 1999
42.	Computer Science Expert	Quality Control and Evaluator Committee for Diploma in Computer Science franchised	July 1999 – December 2008

		programme at Institutions of Higher Learning (IPTS)	
43.	Head	Multimedia Information Retrieval Research Group, Faculty of Computer Science and Information Technology, UPM	October 1999 – December 2008
44.	Head	Faculty's Internal Quality Auditor for ISO 9000, UPM	November 1999 – October 2000
45.	Judge	Homepage Design Contest organised by Sultan Alaeddin Suleiman Shah College, UPM	30 November 1999
46.	Course Coordinator	SAK 1003 and SAK 3100 for the collaboration programmes of Diploma in Computer Science and Bachelor of Computer Science, UPM	November 1999 – April 2000
47.	Lecturer	Distance Learning programme for SAK 3202 course for Bachelor of Computer Science, UPM	November 1999 – April 2000
48.	Coordinator and Question Drafter	SAK 3202 course for the collaboration programme of Bachelor of Computer Science at SAL College	November 2000 – April 2001
49.	Course Coordinator	SAK 3103 for the collaboration programme of Bachelor of Computer Science, UPM	November 2001 – November 2005
50.	Chairman of Viva	PhD student from Universiti Putra Malaysia – Jamilin Jais, with thesis title "Model Management for Cybernetic Decision Support Systems"	2004
51.	Treasurer	UPM Women's Association (PERMATA)	March 2004 – February 2006
52.	Chairman of Viva	PhD student from Universiti Putra Malaysia – Norwati Mustapha, with thesis title "Frequent Lexicographic Algorithm	2005

		for Mining Association Rules”	
53.	Internal Auditor	FSKTM for MS ISO 9001:2000, UPM	October 2005 – October 2007
54.	Chairman of Viva	PhD student from Universiti Putra Malaysia – Belal Mohammad Zaqaibeh, with thesis title “Development of an Assertion Model of Integrity Constraints in Object-oriented Databases”	2006
55.	Chairman of Viva	Master of Science student from Universiti Putra Malaysia – Nurfadhlina Mohd. Sharef, with dissertation title “An Agent-based System with Personalization and Intelligent Assistance Services for Facilitating Knowledge Sharing”	2006
56.	Assistant Secretary	Society of Information Retrieval (SIR)	March 2006 – February 2008
57.	Deputy Dean (Research, Graduate Studies and Finance)	Faculty of Computer Science and Information Technology, UPM	December 2006 – December 2008 (2 years)
58.	Chairman of Viva	Master of Science student from Universiti Putra Malaysia – Noorsalwati Nordin @ Rawi, with dissertation title “Enhanced Medium Access Control Protocol for Resolving Node Misbehaviour in Wireless Networks”	2007
59.	Chairman of Viva	PhD student from Universiti Putra Malaysia – Abu Bakar Md. Sultan, with thesis title “Hybrid Metaheuristic Algorithm and Metaheuristic Performance Measurement for Solving University Course Timetabling Problem”	2007
60.	Chairman of Viva	Master of Science student from Universiti Putra Malaysia –	2008

		Mohamad Safuan Sulaiman, with dissertation title "A Knowledge Intranet Framework to Support Knowledge Management Activities in Nuclear Research Institute"	
61.	Vice President	Society of Information Retrieval and Knowledge Management (PECAMP)	March 2008 – March 2011
62.	Reviewer of Articles	Proceedings of the International Conference on Information Retrieval and Knowledge Management (CAMP)	March 2008 – March 2012
63.	Reviewer of Articles	Pertanika Journal of Science and Technology, UPM	May 2008 – December 2008
64.	Reviewer of Articles	Proceedings of the International Symposium in Information Technology (ITSIM)	May 2008 – June 2010
65.	Committee Member	Malaysian Information Technology Society (MITS)	August 2008 – July 2010
66.	Director	Centre for Research and Graduate Management, UPNM	February 2009 – May 2010 (1 year 3 months)
67.	Dean	Centre for Graduate Studies, UPNM	June 2010 – February 2012 (1 year 8 months)
68.	Trustee	Society of Information Retrieval and Knowledge Management (PECAMP)	April 2011 – present
69.	Selection Committee Member	Selection Committee for the posts of Deputy Vice Chancellor (Academic and International) and Deputy Vice Chancellor (Student Affairs and Alumni)	January 2012
70.	Member	The Institute of Electrical and Electronics Engineers, Incorporated (IEEE)	January 2012 – December 2012
71.	Head	ICT Cluster, Cluster of Research and Innovation Committee, UPNM	January 2012 – December 2013
72.	Committee Member	Faculty Postgraduate	March 2012

		Studies Committee, UPNM	
73.	Head	Institutional Programme Management Office (iPMO), UPNM	April 2012 – July 2012
74.	Committee Member	Academic Ethics Committee, UPNM	June 2012 – present
75.	Member of the Senate	Senate Meeting, UPNM	July 2012 – present
76.	Director	Centre for Information and Communication Technology, UPNM	August 2012 – July 2014 (2 years)
77.	Committee Member	Government Movable Assets Management Committee (JKPAK), UPNM	August 2012 – July 2014
78.	Editor	Journal of Information Retrieval and Knowledge Management (JIRKM)	August 2012 – present
79.	Member	Internal Inspectorate Team, UPNM	October 2012 – October 2014
80.	Reviewer of Articles	Proceedings of the Malaysian Conference for Information Systems (MCIS) 2013	November 2012 – present
81.	Leader	Malaysian Research Education and Network (MyREN), UPNM	December 2012 – present
82.	Head	Institutional Programme Management Office (iPMO), UPNM	January 2013 – December 2014 (2 years)
83.	Member	University Management Committee Meeting, UPNM	January 2013 – present
84.	Member of the Editorial Board	Publishing Centre, UPNM	March 2013 – February 2015
85.	Evaluator	Postgraduate Colloquium, UPNM	May 2013
86.	Evaluator of Best Paper Award	The 3 rd . International Visual Informatics Conference (IVIC'13)	November 2013
87.	Committee Member	ICT Steering Committee (JP ICT), UPNM	December 2013 – July 2014
88.	President	UPNM Women's Association (PUSPANITA)	February 2014 – Present
89.	Reviewer of articles	Proceedings of the Asia Information Retrieval Society Conference 2014 (AIRS 2014)	June 2014 – August 2014

90.	Member	UPNM Council of Professors	July 2014 – present
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(d) Service to the Community

(Please list in chronological order and state: level of involvement, activity, organiser, venue, date/ year/ duration)

No.	Level of involvement	Activity	Organiser	Venue	Date/Year/Duration
1.	National level	Member of the <i>Koperasi Dermajaya Wanita Berhad</i>	<i>Koperasi Dermajaya Wanita Berhad</i>	Kuala Lumpur	1988 - present
2.	National level	Member of the Johorean Malays Society	Johorean Malays Society	Kuala Lumpur	1988 - present
3.	Residential community level	Collaborative activities around Sg. Ramal Dalam, Kajang, Selangor	Residential Welfare Committee	Sg. Ramal Dalam, Kajang, Selangor	1992 - present
4.	School level	Member of the Parent-Teacher Association	Sekolah Kebangsaan Sg. Ramal Dalam, Kajang, Selangor	Sekolah Kebangsaan Sg. Ramal Dalam, Kajang, Selangor	1995 - 2000
5.	University level	Giving lectures on Information Technology to secondary school teachers in the state of Selangor Darul Ehsan	Faculty of Science and Environmental Studies, UPM	Computer laboratory, UPM	1996
6.	National level	Young Scientist Camp given to secondary school students in the states of Selangor Darul Ehsan, Negeri Sembilan Darul Khusus	Faculty of Science and Environmental Studies, UPM in collaboration with the Ministry of Education	UPM	October 1996 – September 1998 (2 years)

		and Wilayah Persekutuan			
7.	School level	Member of the Parent-Teacher Association	Sekolah Menengah Kebangsaan Bandar Baru Bangi, Selangor	Sekolah Menengah Kebangsaan Bandar Baru Bangi, Selangor	2001 - 2005
8.	School level	Member of the Parent-Teacher Association	Sekolah Kebangsaan Sg. Ramal Dalam, Kajang, Selangor	Sekolah Kebangsaan Sg. Ramal Dalam, Kajang, Selangor	2003 - 2008
9.	School level	Member of the Parent-Teacher Association	Sekolah Rendah Islam ABIM, Kajang, Selangor	Sekolah Rendah Islam ABIM, Kajang, Selangor	2008 - 2010
10.	School level	Member of the Parent-Teacher Association	Sekolah Menengah Kebangsaan Jalan Empat, Bandar Baru Bangi, Selangor	Sekolah Menengah Kebangsaan Jalan Empat, Bandar Baru Bangi, Selangor	2009 - 2013
11.	School level	Member of the Parent-Teacher Association	Sekolah Kebangsaan Jalan Empat, Bandar Baru Bangi, Selangor	Sekolah Kebangsaan Jalan Empat, Bandar Baru Bangi, Selangor	2011 - 2013