



## CURRICULUM VITAE

<b>I. PERSONAL PARTICULARS</b>			
<b>Name</b>	Professor Dr. Tengku Mohd T. Sembok		
<b>Current Position Faculty / Department</b>	Director, Cyber Security Centre, UPM		
<b>Position applied for</b>			
<b>II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS</b>			
(Please list all academic qualifications, from your first degree, in chronological order)			
Year	Degree	Discipline	University
1977	BSc(Hons) (Brighton),	Computer Sc.	Brighton University
1981	MS(Iowa),		Iowa University
1985	PostGradDip. Islamic Studies(UKM),		Univ. Kebangsaan M'sia
1989	PhD (Glasgow)		Glasgow Univ.
<b>III. TITLES OF POSTGRADUATE THESES WRITTEN</b>			
No.	TITLES OF POSTGRADUATE THESES		
1.	Logical Linguistic Model and Experiments in Information Retrieval		
<b>IV. WORK EXPERIENCE</b> (Please list your relevant experience in chronological order)			
Year	Position	Field of Work	Place of Work
1973-1974	Trainee	Computer Operator	IBM, K.Lumpur
1974	Research Assistant	Programming	RRIM, K.Lumpur
1975-76	Programmer	Programming	Daresbury Nuclear Physic Laboratory, U.K

1977-78	System Analyst,	System Analysis and Programming	Implementation Coordination
1978-2011	Tutor Lecturer-Professor Head of Dept - Dean Adjunct Professor, eAsia University, 2012-now. Adjunct Professor, UNITAR, 2012-now.	Academic	Universiti Kebangsaan Malaysia(UKM),
1994-95	Commonwealth Research Fellow		Sheffield University,
2007-10	Deputy Vice Chancellor (Academic and International Affairs)	Academic	UPNM
2012-13	Professor in Computer Science/ Dean		Kulliyyah ICT, International Islamic University Malaysia,
2013-now	Professor/Director	Lecturing/Research Administration	Faculty of Defence Science and Technology, National Defence University Malaysia
2012-now	Adjunct Professor	Academic Consultancy	eAsia University,
2012-now	Adjunct Professor	Academic Consultancy	UNITAR

## 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.	Expert Systems	2	2013/14
2.	Artificial Intelligence	1	2014/15
IUUM	1. Design of Algorithm and Complexity Theory 2. Automata and Computational Theory	1/2	2012-13
UKM	1. Pembangunan Pengkompil (Compiler Construction) 2. Sistem Pangkalan Data (Database Sistem)	1/2	1981-2011

	<ol style="list-style-type: none"> <li>3. Analisa dan Rekabentuk Sistem (System Analysis and Designs)</li> <li>4. Amalan Pengaturcaraan (Programming Practices)</li> <li>5. Bahasa Pengaturcaraan (Programming Language – C, Pascal)</li> <li>6. Pengenal kepada Komputer (Introduction to Computers)</li> <li>7. Kejuruteraan Perisian (Software Engineering)</li>   <li>8. Struktur Data (Data Structures)</li>   <li>9. Sistem Pengoperasian (Operating Systems)</li>   <li>10. Pengaturcaraan Mantik (Logic Programming - Prolog)</li> <li>11. Kecerdasan Buatan (Artificial Intelligence)</li>   <li>12. Komputer dan Etika (Computer Ethics)</li>   <li>13. Pengurusan Projek Multimedia (Multimedia Project Management)</li> <li>14. Asas Multimedia (Foundation of Multimedia)</li>   <li>15. <i>Sejarah &amp; Fal. Sains (History &amp; Philosophy of Science)-Tutor</i></li> <li>16. <i>Projek I (Project I) - Supervision</i></li>   <li>17. <i>Projek II (Project II) - Supervision</i></li> <li>18. <i>Latihan Industri (Industrial Training) - Supervision</i></li> </ol>		
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## 1.2 Postgraduate Courses

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

No	Course Title	Semester	Year
1.	Pemprosesan Bahasa Tabii (Natural Language Processing)	1/2	1981-2007
2.	Kecerdasan Buatan Lanjutan (Advance Artificial Intelligence)	1/2	1981-2007
3.	Capaian Maklumat (Information Retrieval)	1/2	1981-2007
4.	Kaedah Penyelidikan (Research Methods)	1/2	1981-2007

### 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"> <li>• Completed</li> <li>• Submitted</li> <li>• In Progress</li> </ul>
1.	Fatimah Ahmad	A Malay Document Retrieval System: An Experimental Approach and Analysis. (Professor, UPNM)	1992-1995:	Completed
2	Zainab Abu Bakar -	Application of String Matching Techniques in Documents Retrieval. (Professor, UiTM)	1994-1998:	Completed
3	Nor Laila M.Nor -	Experiments with Chaos and Neural Network: A Case in the Malaysian Money Market. (Professor, UiTM)	1994-1998:	Completed
4	Juhana Salim -	Keperluan dan Penggunaan Maklumat Pengurus dalam Sektor Busines dengan Tumpuan Khas kepada Penggunaan Perkhidmatan Pangkalan Data dalam Talian (Managers Needs on On-line Database System). (Professor, UKM)	1996-2000:	Completed
5	Belal Abu Ata - An Arabic	Stemmer and Multilingual Documents Retrieval System. (Head Department, Jordan)	1995-2001:	Completed
6	Khalid Sulaiman Yousif Al-Thahat - Courseware Based on	Development of a Framework for Multimedia The Hot-Spot-Driven Approach.	1999-2002:	Completed
7	Norazah Nordin:	Perisian Kursus Multimedia Matematik: Pendekatan	2000-2003	Completed

		Hibrik (Multimedia Package for Mathematics: An Hybrid Approach) (Associate Professor UiTM)		
8	Azizah Jaafar -	Usability Study on Malaysian Smart School Mathematics Courseware: Cognitive Walk Through Approach (Associate Professor UKM)	2000-2004	Completed
9	Hassan Mohd Hassan Al-Rafei -	Mobile Security Protocol: A Formal System Approach	2002-2005	Completed
10	Azman Yassin -	Information Retrieval: Genetic Algorithm Experiments (Associate Professor UUM)	2001-2006 :	Completed
11	Mohd Pauzi Hamzah -	Semantic Document Retrieval System for Malay Language. (Associate Professor UMT)	2002-2006 :	Completed
12	Taufik Abdullah	Cross Language Information Retrieval: Malay-English. (Associate Professor UPM)	2001-2006 :	Completed
13	Jabar Hasan Yousif –	Automatic Part of Speech Determiner for Arabic Language. (Lecturer Bahrain)	2003-2007:	Completed
14	Hasbiah	Package Literasi Multimedia untuk Kanak-kanak Disleksia. (Multimedia Literacy Package for Dyslectic Children) (Associate Professor UPSI)	2003-2007:	Completed
15	Safiah Sakri	Computer Security and Ethical Analysis Model (MAMPU)	2004-2007	Completed
16	Fauzi Abdul Rahman	Mathematics Courseware –	2002-2007	Completed

		Constructivism Approach		
17	Nursuriati Jamil	Songket content-based image retrieval (Associate Professor UiTM)	2001-2008	Completed
18	Rabiah Abdul Kadir	Natural Language Understanding for Essay Comprehension (Associate Professor UKM)	2003-2008	Completed
19	Mohd Sunar	Visual Culling Techniques for Visual Reality (Associate Professor UTM)	2004-2008	Completed
20	Lilysuriati Abdullah	Video Classification and Retrieval System	2003-2008	Completed
21	Abdullah Bade	Visualisation: Volume Bounding Problems	2004-2008	Completed
22	Fatimah Khalid	Content-based Retrieval: Facial Recognition	2004-2008	Completed
23	Mohammad Abu Shuger	Machine Translation English to Arabic Using Rule-based Approach.	2005-2008	Completed
24	Marina Ismail	Literacy Courseware for Children based Social Learning Approach	2002-2009	Completed
25	Hikmat	Information Retrieval: User Profile Model based on Ontology	2006-2010	Completed
26	Zuklifli Ahmad	Courseware for Teaching French Language Pronunciation.	2003-2010	Completed
27	Norazah Abdul Rahman (UiTM)	Hadis and Al-Quran Retrieval System: Clustering Approach.	2003-2009	Completed
28	Normaly Ismail	Two Dimensional Visualisation for Malay Texts Retrieval System	2004-2011	Completed
29	Kasturi Vanathan:	Semantic Based Information Retrieval and Question	2006-2012	Completed

		Answering System.		
30	Norshita Mat Nayam –	Information System in Malaysia: Evaluation on Malaysia Electronic Government.	2007-2012	Completed
31	Moiaia Al-Alaweh	Arabic-English Machine Translation using Rule Based and Examples Approach.	2007-2012	Completed
32	Mohd Izzuddin Tamrin (IIUM Student)	Supply Chain Business Model Architecture	2012-2013	Completed
33	Sharyar Wani (IIUM Student)	Logico-linguistic Model in Information Retrieval	2013-	In Progress

#### 1.4 PhD.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"> <li>• Completed</li> <li>• Submitted</li> <li>• In Progress</li> </ul>
1.	Yusof Al Omari	Pattern Matching Algorithm (UTM)	1998:	Completed
2.	Jalaludin Aman	IT Strategic Planning (USM)	1999:	Completed
3.	Zaiton Abu Bakar	System Integration Model and Implementation (UM)	1999:	Completed
4.	Aman Jantan	FrameLog: Sebuah Sistem Bahasa untuk Pembangunan Sistem-Sistem Pakar Berasaskan Perwakilan Pengetahuan (USM).	2001:	Completed
5.	Faizah Abdul Rahim	Suatu Metodologi Baharu dalam Pembangunan Multimedia Interaktif (UUM)	2001:	Completed
6.	Mingu bin Jumaan	Senior Executives Involvement in Information Technology Implementation in the Sabah State Public Sector. (UM)	2001:	Completed
7.	W. Fatimah Ahmad	Pembangunan dan Keberkesanan Perisian	2004:	Completed

		Multimedia dalam Pendidikan Matematik untuk Visualisasi Corak Geometrik (V-Maths)(UKM)		
8.	Jehad Al-Nihoud	Fast and Efficient Approaches for Content-Based Image Retrieval using Colour and Shape Features(UPM)	2004:	Completed
9.	Mohammad Nubli	Source-Agent-Client Component of SISP(UPM)	2004:	Completed
10.	Ummu Salamah	The improvement of Multilayer Perceptron Model for Malay Isolated Digit Recognition(UPM)	2004:	Completed
11.	Roziah binti Abdullah	Pembangunan dan Keberkesanan Pakej Multimedia Kemahiran Berfikir bagi Mata Pelajaran Kimia(UKM)	2005:	Completed
12.	Zahari bin Othman	Satu Pendekatan dalam Pembinaan Kerangka Kerja Pemindahan Pengetahuan dan Kemahiran CIO: Kajian Kes Sektor Awam di Malaysia(UKM)	2005:	Completed
13.	Adnan M. Okour	Determinants of Personalised Web Services Acceptance in the University Environment(UUM).	2005:	Completed
14.	Ramlah Hussein	The Contribution of Organizational and Technological Factors on Information Systems Success in the Malaysian Public Sector(UPM)	2005:	Completed
15.	Nur'Aini A. Rashid	Enhancement of Hirshberg Algorithm Using N-gram and	2006:	Completed



		Parallel Method for Fast Protein Homologous Serach(UTM)		
16.	Rodina Ahmad	A Conceptual Modelling Methodology for Enterprise Analysis based on Viable System Model(UKM).	2006:	Completed
17.	Anwar Awan	Clustering using Learning Kernel(UTM)	2007:	Completed
18.	Khor Siak Wang	Colour Image Retrieval Using Statistical-Based Colour Pattern Code Approach(UPM)	2007:	Completed
19.	Mohd Shafry bin Mohd Rahim		2008:	Completed
20.	Qais Mahromyar Sadrudeen		2009:	Completed
21.	Emma Nuraihan Ibrahim	A Conceptual Model of Web Mediated Information Environment for Sensitive Information Context. (UiTM)	2009:	Completed
22.	Zolidah Kasiran	Customer Satisfaction Feedback Using Facial Expression Recognitions and Conventional Survey: A Case Study of INTEC (UiTM)	2012:	Completed
23.	Ahmad Hassan Sowaileh:		2012:	Completed
24.	Noraini Seman	Coalition of GA and ANN algorithms for Isolated Malay Speech Recognition (UiTM).	2012:	Completed
25.	Sayuti Jaafar	Steganoraphy using Generative Coding and Modulus Model (UTM)	2012:	Completed
26.	Zahid Islamil	Innovating Content Delivery Methods for Broadband Subscribers in a Fiber-To-Home	2013:	Completed

		Network Using Open Access Strategy (UTM)		
27.	Nurulhuda Binti Noordin:	Modeling the Halal Ecosystem as a Strategic Approach to Halal Quality Management: A Case of the Malaysian Halal Food Certification System (UTM)	2013:	Completed
28.	Nik Zulkarnaen Khidzir:	Information Security Risk Management Framework for ICT Outsourcing (UiTM)	2013:	Completed
29.	Rasul Enayatifar:	A Novel Multi-Objective and Learning Automata Based Evolutionary Algorithm. (UniKL)	2013:	Completed
30.	Norshuhani Zamin	Hybrid Annotation Projection Algorithm for a Less Resourced Language (UTP)	2014:	Completed
31.	Mohammad Nauman:	Extending User Privacy on VM-Based Smartphones through Resource Usage Control (UniKL)	2014:	Completed
32.	Hazaruddin Harun	A Hybrid PSO-based Algorithm for Motif Discovery (UiTM)	2014:	Completed
33.	Atefeh Tajpour	An Identity Theft Prevention Model for e-Commerce User	2014	Completed
34.	Hamirul Aini Hambali	A Rule Based Image Segmentation Method and Neural Network Model for Classifying Fruit in Natural Environment(UiTM)	2015	In Progress
35.	Mohammad Syafrullah	Term and Taxonomy Extraction Using Fuzzy and Particle Swarm Optimization	2015	In Progress

### 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"><li>• Completed</li><li>• Submitted</li><li>• In Progress</li></ul>
1.	Zailani Shafie	Sistem Maklumat Pelajar Institut Teknologi MARA Cawangan Melaka.	1999:	Completed
2.	Zainal Abidin Bakar	Pembangunan Alat Bantuan Penyampaian Multimedia.	1999:	Completed
3.	Suhaila Sardi	Persepsi Pelajar Terhadap Komputer: Perbandingan antara Pelajar Bandar dan Luar Bandar.	1999:	Completed
4.	Selvrani a/p Simanchalan	Laman Web Bermultimedia untuk Mengajar Kanak-kanak Menjadi Pengguna Internet yang Beretika.	2000:	Completed
5.	Yurham Yunus	Pakej Statistik (A Statistics Package)	1984:	Completed
6.	Asrul Shahnom	Pembangunan Pengkompilasi Pascal (Development of a Pascal Compiler)	1990:	Completed
7.	Asim Othman	Pengakar Perkataan Melayu (A Malay Stemming Algorithm)	1992:	Completed
8.	Amna Saad	Sistem Pakar Menilai Prestasi Syarikat Insuran (An Expert System in Evaluation of Insurance)	1993:	Completed

		Companies)		
9.	Baharuddin Mahfuz	Sistem Pangkalan Data Tanah (A Land Database System)	1993:	Completed
10.	Chi Teck Cheng	Penjadual Waktu Berbantu Komputer (A Computer Assisted Time Tabler)	1993:	Completed
11.	Ravie Chandren	Rangkaian Neural: Satu Penerokaan dalam Sistem Pencapaian Dokumen.	1997:	Completed
12.	Fatimah Khalid	Perisian Kursus Trigonometri: Menggunakan Teknologi Multimedia.	1998:	Completed
13.	Amirah Ismail	Perbandingan Keberkesanan Capaian Antara Enjin Gelintar.	2000:	Completed
14.	Nor Fatimah Awang	Wabaknet: Sistem Sesawang dan Pangkalan Data Pengurusan Wabak Penyakit.	2001:	Completed
15.	Rahmah Mokhtar	Mengkaji Kejituan Lima Enjin Gelintar di Internet: Cari, Chacha, Magellan, Metacrawler dan Yahoo.	2001:	Completed
16.	Noor Azliza binti Che Mat	Pembelajaran Berbantuan Multimedia Bagi Sains KBSM: Pendekatan Konstruktivisme Berkaitan Rupa Bentuk Bumi dan Kejadian Siang Malam	2003:	Completed

### 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
1.	Mohd Al-Smadi	A Courseware for Teaching Graphic Design and Applied	1992-94:	<ul style="list-style-type: none"> <li>• Completed</li> <li>• Submitted</li> <li>• In Progress</li> </ul>

		Arts		
2.	Hani Al-Omari	ALMAS: An Arabic Language Morphological Analyser	1992-94:	Completed
3.	Belal Abu Ata	A Design and Implementation of a Multilingual Document Retrieval System	1992-94:	Completed
4.	Saidah Saad	Pembangunan dan Eksperimen ke atas Satu Sistem Capaian Maklumat Al-Quran Dwi Bahawa Berasaskan Web.	1996-98:	Completed
5.	Nor Siah Abdullah	Rangkaian Neural Teori Resonans Tanpa Mudah Suai Berhierarki: Aplikasi dalam Capaian Maklumat.	1998-01:	Completed
6.	Jamaliah Isnin	Test Management System TMSys: Based on Accessibility and Visibility Approach.	2004-07	Completed
7.	T. Roslan Kadir	Pakaej Pembacaan Multimedia Berasaskan Pendekatan Hibrid	2004-07	Completed

### 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"> <li>• Completed</li> <li>• Submitted</li> <li>• In Progress</li> </ul>
1.	Ronald Simon	Pembangunan Perisian Multimedia Cerita Legenda Berasaskan Animasi 3D: Monsopiad(UKM)	1998:	Completed
2.	Hasnah Binti Suhaimi	Pembangunan Perisian Kiosk Maklumat Konsumerisme Bermultimedia(UKM)	2000:	Completed
3.	Norisma Idris	Automated Essay Grading System Using Nearest Neighbour	2001:	Completed

		Technique in Information Retrieval (UM)		
4.	Fadhilah binti Mat Yamin	Penentuan Kerelevanan Dokumen Menggunakan Rangkaian Rambatan Balik (UM)	2002:	Completed
5.	Saravadee Sae Tan	Annotating a Topic Hierarchy based on the Feature Selection Techniques (USM)	2002:	Completed
6.	Saravanan a/l Govindasamy:	Clinical Management System (CLINISYS) (UM)	2002:	Completed
7.	A.Z.M. Kamruzzaman	Patio-Temporal Object Relational Olant Biodiversity Data Model (Stop-BDM) (UTM)	2006:	Completed
8.	Azlina bte Bujang	Capaian Dokumen Berdasarkan Algoritma Peta Semantik Swaurus (UKM)	2006:	Completed
9.	How Men Mee	Interactive Learning Through Online Asynchronous Discussion (UM)	2006:	Completed
10.	Mohamizzam Bin Mohammad	Pembangunan Prototaip Perisian Pengajaran Dan Pembelajaran Bermultimedia: Komponen Wajib Kesusasteraan Melayu (KOMSAS)(UPM)	2006:	Completed
11.	Tee Sim Shu	The Development of Learning Support System for Blende Learning Environment (UM)	2006:	Completed
12.	Hayati Harun	Interoperable e-Government in Malaysia: A framework for Transparent Public Delivery System	2007:	Completed

	(UTM)		
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## 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 Rresearchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress

No	Title	List of Rresearchers • Principal • Members	Grant Year	Source Amount	Source	Status
1.	Study and Design of the UKM Information System (No. 31/90); as Head of Staff Database Subgroup.	Abdul Razak Hamdan, Tengku Mohd T. Sembok, Mohammed Yusoff, drr.	1990-1991	UKM 100,000,	University	Completed
2.	A Malay and Multilingual Information Retrieval System (IRPA 02-07-03-024: PSM01); as head of the project.	Tengku Mohd T. Sembok, Mohamed Yusoff, drr	1991-1995	IRPA 1,500,000	Government	Completed
3.	Multimedia and Multilingual Document Retrieval and Preparation System (IRPA 04-02-02-0007)- Project Head	Tengku Mohd T. Sembok, Mohamed Yusoff, Abdullah Mohd Zin, dll.	1996-2000	IRPA: RM473,000	Government	Completed
4.	Mathematics Courseware for Smart Schools – Project Head	H. Badioze Zaman, Tengku Mohd T. Sembok, Mohamed Yusoff, Norhayati Abdul Mukti, Azlina Ahmad, Muriati	1996-2000	DTech RM10,000,000	Industry	Completed
5.	Software Development to Motivate Literacy. (IRPA 04-02-02-0008)- Ahli projek	H. B. Zaman, Norhayati Abdul Mukti, Rohaya Ariffin, Puteri Sabariah, Aziz Deraman, Tengku	1996-2001	IRPA: RM389,000.	Government	Completed

No	Title	List of Rresearchers • Principal • Members	Grant Year	Source Amount	Source	Status
		Mohd T. Sembok, dll.				
6.	Kamus dewan tiga edisi: Kajian Leksikografi (IRPA 07-02-02-0041) Ahli projek	Nor Hashimah Jalaluddin, Zaharani Ahmad, J.T. Collins dan Tengku Mohd T. Sembok	1999-2001	IRPA: RM200,000	Government	Completed
7.	Pembangunan perisian matematik untuk sekolah bestari: Pendekan multimedia dalam pendidikan (IRPA 04-02-02-0038) Ahli projek	H. B. Zaman, Tengku Mohd T. Sembok, Mohamed Yusoff, Norhayati Abdul Mukti, Azlina Ahmad, Muriati Muktar	2000-2002	IRPA RM 240,000	Government	Completed
8.	Pembangunan perisian berpendekatan multimedia: Cerita Rakyat Malaysia untuk memupuk tabiat membaca (IRPA 04-02-02-0022) Ahli projek	Norhayati Abdul Mukti, H. B. Zaman, Tengku Mohd T. Sembok, Zurina Muda.	1999-2001	IRPA RM 146,000	Government	Completed
9.	Intelligent Information Search Engine (IRPA 04-02-02-0037) Project Head	Tengku Mohd T. Sembok, Mohamed Yusoff, Mohd Shahrul Azman, Tengku Mariam T. Wok, Fadhilah Mohd Nor, Zurina Muda, Saidah Said, Amirah Ismail, Salwani	2000-2002	IRPA RM280,000	Government	Completed
10.	Courseware Development Process and Project Management System – Project Head	T.Mohd T. Sembok Mohamed Yusoff, H. B. Zaman, Azlina Ahmad	2002-2003	IRPA RM270,000	Government	Completed
11.	Template Based Image Information Retrieval Sistem	T.Mohd T.Sembok Nazleena Mohd Ali Shahrul Azman Mohd Nor	2002-2004	IRPA RM200,000	Government	Completed
12.	ICT Ethics	T. Mohd T. Sembok	2002-2003	UNESCO RM80,000	UNESCO	Completed
13.	An Intelligent Healthcare Assistant for Knowledge Adaptation and Retrieval from Healthcare Knowledge Repositories	T.Mohd T.Sembok H. B. Zaman Norhayati Abdul Mukti	2002-2004	IRPA RM470,000	Government	Completed
14.	Language Technology: Word	T.Mohd T.	2006-	MIMOS	MIMOS	Completed



No	Title	List of Rresearchers • Principal • Members	Grant Year	Source Amount	Source	Status
	alignment and SSTC.	Sembok, et al.	2007	RM310,000		
15.	Quantum Logic for Information Retrieval	T.Mohd T. Sembok, H. B. Zaman, A. Malik M.Yusoff	2006-2009	FRGS RM100,000	Government	Completed
16.	NLP for English Essay Comprehension	T.Mohd T. Sembok, H. B. Zaman, Nazlia, Shahrul Azman	2006-2008	ScienceFund RM241,000	Government	Completed
17.	HiCORE Islamic Banking System	T.Mohd T. Sembok, H. Badioze Zaman, dll.	2007-2008	TechnoFund RM 6.7 mill.	Government	Completed
18.	Multimodal Interpreter	T.Mohd T. Sembok, H. B. Zaman, Tang Nya Kong	2007-2009	ScienceFund RM 140,000	Government	Completed
19.	Malay Language Computational Grammar Framework based on Fusion of Phrase Structure Grammar, Categorical Grammar and Logic.FRGS/2/2010/TK/UPNM/0 1/3	T. Mohd T. Sembok, Fatimah Ahmad	2010-2012	FRGS RM44,720	Government	Completed
20.	Advanced Computing Environment To Enhance Innovative Digital Economy: Project 1: Semantic Technology Project	T.Mohd Sembok Zainab Abu Bakar Sahrul Azman Rabiah A Kadir	2011-2015	LRGS RM 1,000,000 of RM6,000,000	Government	In progress
21.	Logico Semantic Search Engine	T.Mohd Sembok MohdFauzan Roslina Othman	2012-2015	FRGS RM115,000	Government	In progress
22.	Self-Help Maqam-Based Search System	Roslina Othman T.Mohd Sembok MohdFauzan	2012-2015	ERGS RM 70,000	Government	In progress
23.	Islamic Retrieval System	Roslina Othman T.Mohd Sembok MohdFauzan	2012-2015	PRGS RM 220,000	Government	In progress

<b>Additional: Member of the e-Science and IRPA Projects</b>			
Project No	Project Title	Project Leader	Institution
01-03-04-SF0022	NewAuthentication and AuthorizationMulti Tenant Subscription based Services in the Cloud for Web Services	Seah Boon Keong	MIMOS
01-01-02-SF0104	Development of an Advanced Multimedia in Special Education System for Learning Intervention	H. B. Zaman	UKM
01-01-03-SF0123	The Development of Organizational Memory Information System and Information Delivery System	Salimah Mokhtar	UM
UTM0003674	Cross-Language Plagiarism Detection Tool Using Fuzzy-Swarm Summarization and Data Fusion	Naomie binti Salim	UTM

01-01-02-SF0094	Development of a Virtual Reality Visualisation Laboratory to Build Virtual Worlds for Learning	H. B. Zaman	UKM
UKM0000652	Development of a Virtual Reality Visualisation Laboratory to Build Virtual Worlds for Learning	H. B. Zaman	UKM
UPM0002974	Text Mining Techniques in Malay Natural Language Processing.	Masrah Azrifah Azmi Murad	UPM
01-01-04-SF0847	3D Modeling On Speech Production and Articulation Characteristics	Rahmita Wirza	UPM
UKM0001532	The Development of Semantic Search Engine for Malaysian Business Directory	Junaidah Mohamed Kassim	UKM
01-01-06-SF0502	Cross-Language Plagiarism Detection Tool Using Fuzzy-Swarm Summarization and Data Fusion	Naomie binti Salim	UTM
UKM0000521	The Development of Semantic Search Engine	Junaidah Mohamed Kassim	UKM
UPM0004008	3D Modeling On Speech Production and Articulation Characteristics	Rahmita Wirza	UPM
UTM0003316	Cross-Language Plagiarism Detection Tool Using Fuzzy-Swarm Summarization and Data Fusion	Naomie binti Salim	UTM
01-01-04-SF0100	Text Mining Techniques in Malay Natural Language Processing.	Masrah Azrifah Azmi Murad	UPM
01-01-02-SF0106	The Development of Semantic Search Engine for Malaysian Business Directory	Junaidah Mohamed Kassim	UKM
UPM0001181	Cross-Language Information Retrieval for Malay and English Documents	Muhamad Taufik Abdullah	UPM
01-01-06-SF0814	Real-Time 3D Crowd Rendering for Large Scale Virtual Heritage Environment	Mohd Shahrizal bin Sunar	UTM
UKM0002639	Development of an Advanced Multimedia in Special Education System for Learning Intervention	H. B. Zaman	UKM

## 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 <ul style="list-style-type: none"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
1.	Sembok. T.M.T. 2014. Creativity and Wealth Creation. Kuala Lumpur Undergraduate IT Exhibition and Conference 2014 (KLTEC 2014)	National
2.	Sembok. T.M.T. 2014. String to NLP. Workshop on IR and NLP. Sarawak.	National
3.	Sembok, T.M.T. Oct. 2013. Text Processing to NLP in Information Retrieval. Istanbul. WSEAS Conference. Turkey.	International
4.	Sembok, T.M.T. Nov. 2013. Quality Assurance of FCIT: Curriculum Development and Key Performance Indicators of the Faculty. Tabuk University. Saudia Arabia.	International
5.	Sembok, T.M.T. Nov. 2013. Preparing for Supervision of Postgraduate Research in ICT. Tabuk University. Saudia Arabia.	International
6.	Sembok, T.M.T. Nov. 2013. Information Retrieval Techniques and Effectiveness on Al-Quran. ICDL. New Delhi. India.	International
7.	Sembok, T.M.T. 2012. Penyebaran Ilmu Watan Melalui Teknologi Maklumat dan Komunikasi, Bulan Bahasa Jiwa Bangsa (Dewan Bahasa	National

	dan Pustaka), Maktab Pengguruan Sultan Idris, Kedah.	
8.	Sembok, T.M.T. 2012. Penyebaran Ilmu dan Penerusan Tamadun Peribumi Melalui Teknologi Maklumat dan Komunikasi, MABBIM Lecture Series, Indonesia-Brunei-Malaysia, 19-22 June 2012.	International
9.	Sembok, T.M.T. 2011. Unified Logical-Linguistic Model in Information Retrieval. STAIR2011. Putrajaya.	International
10.	Sembok, T.M.T. 2011. Query Expansion Based on User Profiling and Ontology. International Conference on ICDML. Kolkata. India.	International
11.	Sembok, T.M.T. 2011. Unified Logical-Linguistic Model in Information Retrieval. International Conference on Semantic Technology and Information Retrieval. Putrajaya.	International
12.	Sembok, T.M.T. 2011. Hala Tuju Penyelidikan ICT. UMS. Kota Kinabalu. Sabah.	University
13.	Sembok, T.M.T. 2011. Penulisan Cadangan Penyelidikan. Politeknik Kota Kinabalu. Sabah.	University
14.	Sembok, T.M.T. 2011. ICT Extension Skills for Employability. Colombo Staff College Seminar. Terengganu. May 2011.	International
15.	Sembok, T.M.T. 2010. The Roles of Education in Shaping The Cyber Environment. Cyber Security Malaysia Awards, Conference & Exhibition 2010. 26-29 Oct. 2010. KLCC.	International
16.	Sembok, T.M.T. 2010. Military Document Understanding and Question-Answer Systems, International Conference On Defence And Security 2010, PWTC. Kuala Lumpur. 20-21 April 2010.	International
17.	Sembok, T.M.T. 2009. Pembahas kepada Syarahan MABBIM 2010, Meningkatkan Peranan Bahasa Indonesia/Melayu dalam Memperkukuh Karakter Bangsa, UPMN, 27 Julai 2010:	International
18.	Sembok, T.M.T. 2008. Benchmarking in ICT PhD Thesis. Universiti Teknologi Malaysia, Skudai.	University
19.	Sembok, T.M.T. 2008. Pribumian Sains, Teknologi dan Inovasi dalam Capaian Maklumat. Seminar Etnomatematik Asia Tenggara. Institut Penyelidikan Matematik. Universiti Putera Malaysia. 4 Disember 2008.	International
20.	Sembok, T.M.T. 2007. R&D&C Activities in ICT. Universiti Malaya. Kuala Lumpur.	University
21.	Sembok, T.M.T. 2006. R&D&C Activities in ICT. Universiti Teknologi Malaysia. Skudai. Johor.	University
22.	Sembok, T.M.T. 2003. Ethics in ICT. Ethics in Science & Technology in Asia Pacific. Bangkok:UNESCO.	International
23.	Sembok, T.M.T. 2003. Character Strings to Natural Language Processing in Information Retrieval, Digital Libraries: Technology and Management of Indigenous Knowledge for Global Access, 6 <sup>th</sup> International Conference on Asian Digital Libraries, ICADL 2003, Kuala Lumpur. Berlin: Springer.	International
24.	Sembok, T.M.T. 2004. Character String to Natural Language Processing in Information Retrieval. International Conference in Digital Library. New Delhi. India.	International
25.	Yassin, M.S., Othman, Y.H.O., Sembok, T.M.T. 2005. Research	International

	Management at UKM: Systemic and Holistic Approach. Global University Network for Innovation(GUNI) Conference. Kuala Lumpur.	
26.	Sembok, T.M.T. 2006. A Unified Logical Model for Information Retrieval and Question Answering Systems (Invited Paper). International Conference in Digital Library. New Delhi, India.	International
27.	Sembok, T.M.T. 1998. IT Education: A Challenge to the Ummah. Simposium Academy Sains Islam. Bandar Baru Bangi.	National
28.	Sembok, T.M.T. 1998. Pembangunan Bidang Ilmu ICT: Satu Kerangka Kurikulum Holistik. Kolokuium UKM. Hotel Equatorial Bangi..	National
29.	Sembok, T.M.T. 1999. R&D Activities in IT. MDC. Cyberjaya.	National
30.	Sembok, T.M.T. 2000. Some Insights surround Information Retrieval and Natural Language Processing for Development of e-Lexicon. Seminar FSSK UKM. Bandar Baru Bangi.	University
31.	Sembok, T.M.T. 2001. A Tripartite Collaboration between Government, Business and University:. REDEC'2001. UPM. Serdang.	International
32.	Sembok, T.M.T. 2001. Intelligent Search Engine: Application of Natural Language Language. UUM. Sintok.	International
33.	Sembok, T.M.T. 2001. Mu'jizat Malam Israk Mikraj. Kolej Yayasan Saad. Lembah Beringin.	School
34.	Sembok, T.M.T. 2001. Peradabab Malaysia dalam Era Teknologi Maklumat: Satu Perspektif Bahasa, Pemikiran, dan Teknologi. Persidangan Dewan Bahasa dan Pustaka. Kuala Lumpur.	National

### 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"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
1.	Sembok, T.M.T. 2007. Bahasa, Makna, dan Kecerdasan Sekitar Capaian Maklumat (Language, Meaning and Intelligence Surrounding Information Retrieval). Bangi: Universiti Kebangsaan Malaysia.	University
2.	Sembok, T.M.T. et al. 2006. Kaedah Penyelidikan dalam Komunikasi Multimedia (Research Methodology in Communication and Multimedia). Kuala Lumpur: Universiti Terbuka Malaysia.	University
3.	Yusoff, Z.M., Manap, N.A., Mohd, M., Sarim, H.M., Sembok, T.M.T. 2005. Teknologi Maklumat dan Komunikasi: Etika, Undang-Undang dan Sosial (Book: ICT: Ethics, Law and Social). Kuala Lumpur: McGraw-Hill.	International
4.	Sembok, T.M.T. 2003. ICT Ethics. (in Ethics of Science and Technology in Asia Pasific). Bangkok: UNESCO.	International
5.	Melawat Masjid Kristal. 2014. Oxford Pub.	National
6.	Malam Kebudayaan Sekolah. 2014. Oxford Pub.	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"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
1.	Md Rabiul Awal, M. M. Hafizur Rahman, Rizal Mohd Nor, Tengku Mohd Tengku Sembok. 2015. Architecture and Network-On-Chip Implementation of a New Hierarchical Interconnection Network. Journal of Circuits, Systems, and Computers (JCSC).	International
2.	Kasturi Dewi Varathan, Tengku Mohd. Tengku Sembok, & Nazlia Omar. Semantic Indexing for Question Answering System. 2014. Malaysian Journal of Computer Science (MJCS), Vol. 27, No. 4, 2014.	International
3.	Sembok, T.M.T., Nordin, M.F., Othman, R., Kadir, R.A. & Varathan, K.D. 2013. Natural Language Interface and Understanding in Document Question Answering Systems. Academic Journal of Science, 2(2):501–510. University Publications.	International
4.	Sembok, T.M.T, Kadir, R.A. 2013. A Unified Logical-Linguistic Indexing for Search Engines and Question Answering. International Journal of Mathematical Models and Methods in Applied Sciences. North Alantic University Union (NAUN).	International
5.	Tamrin, M. I. M., Sembok, T.M.T., Kartiwi, M. 2013. Hierarchical Structural Driven Model for Integrative Information Management Architecture. International Journal of Advance Computer Science and Information Technology.	International
6.	Tamrin, M. I. M., Sembok, T.M.T., Kartiwi, M. 2013. Collaboration Algorithms between Intermediaries for Supporting Flexible Supply Chain Management. International Journal of Applied Mathematics and Informatics.	International
7.	Rabiah A. Kadir, T. M. T. Sembok, Fatimah Ahmad, and Azreen Azman. 2013. Normalization Strategy of Logical Knowledge Representation for Text Document. IACSIT International Journal of Engineering and Technology, Vol. 5, No. 1, February 2013.	International
8.	Sakri, S., Salim, J., Sembok, T.M.T. 2012. ICT Abuse in the	International

	Malaysian Public Sector: The Influence of Ethical, Organisational Bond and General Deterrence Factors. <i>Jurnal of Southeast Asia Social Sciences and Humanities</i> . 82(1), Pp.125-137. Bangi: UKM.	
9.	Harshida Hasmy, Zainab Abu Bakar, Fatimah Ahmad, Tengku Mohd Tengku Sembok. 2012. Construction of Computational Malay Lexicon Using Affixed Words Analyser. <i>Journal of Information Retrieval and Knowledge Management</i> . Kuala Lumpur: PECAMP.	International
10.	Kasturi Dewi Varathan, K.D., Sembok, T.M.T. & Kadir, R.A. 2011. Automatic Lexicon Generator: An Algorithm. <i>Journal of Information Retrieval and Knowledge Management</i> . Vol. 1, PECAMP.	International
11.	Sembok, T.M., Belal, A. A., Zainab, A.B. 2011. Rule based Arabic Stemming Algorithm. <i>International Journal of Mathematical Models and Methods in Applied Sciences</i> . North Alantic University Union (NAUN).	International
12.	Sembok, T.M., Zainab, A.B. 2011. Effectiveness of n-gram String Similarity Matching on Malay Documents. <i>International Journal of Applied Mathematics and Informatics</i> .	International
13.	Mouiad Alawneh, Tengku Mohd. 2011. Handling the Agreement Problems in Machine Translation using Hybrid-Based Systems, <i>International Journal of Computer Science and Network Security</i> Vol.11, No.6, pp.93-97, 30 June, 2011 ISSN 1738-7906.	International
14.	Abd-El-Jaber, H. & Sembok, T. 2009. A bivalent-profiling using anontology base for semantic-based search. <i>International Journal of Computer Science and Systems (IJCSS)</i> 1 (1): 18-28.	International
15.	Rabiah, A. K. Sembok, T. M. T., Zaman H. B. 2009. Improvement of Document Understanding Ability through the Notion of Answer Literal Expansion in Logical-linguistic Approach. <i>WSEAS Transaction on Information Science and Application</i> .	International
16.	Mohd Shahrizal Sunar, Abdullah Mohd Zin, Tengku M. T. Sembok: Improved View Frustum Culling Technique for Real-Time Virtual Heritage Application. <i>IJVR</i> 7(3): 43-48 (2008).	International
17.	Rabiah A.K., T.M.T. Sembok, and H. B.Z. 2009. Generating 3D Visual Expression Using Semantic Simplification Description Based on Logical Representation. 1 <sup>ST</sup> International Visual Informatics Conference Proceeding. LNCS. Berlin: Springer-Verlag.	International
18.	Zaman, H.Z., A. Azlina, T.M. Sembok, I. Sufian, Sharul Azman M.N., A.B. Azuraliza, A.O. Zulaiha, O. Nazlia, A. Salwani, A. Sanep, M.T. Hailani, M.Z. Zaher, J. Azizah, M.Y. Nor Faezah, W.O. Choo, Chew Abdullah, and B. Sopian. 2009. Multi-tiered S-SOA, Parameter-Driven New Islamic Syariah Products of Holistic Islamic Banking System (HiCORE): Virtual Banking Environment. 1 <sup>ST</sup> International Visual Informatics Conference Proceedings. LNCS. Berlin: Springer-Verlag.	International
19.	Abd-El-Jaber, H. & Sembok, T. 2008. A weighted-profiling using anontology base for semantic-based search. <i>World Academy of Science, Engineering and Technology (WASET)</i> , <i>International Journal of Information Technology</i> 4 (4): 262- 274.	International

20.	Kadir, R.A., Sembok, T.M.T., H. , B.Z. 2007. Computing Keyword Answer to Hypothetical Queries in the Presence of Skolem Clauses Binding. WSEAS Journal Transaction on Computer.	International
21.	Sunar, S.M., Zin, A.M., Sembok, T.M.T. 2006. Visual Culling Techniques for Geometric Processing in Walkthrough Application. International Journal of Computation Information Systems. Vol. 2 No.1. pp. 421-427. Binary Information Press.	International
22.	Sunar, S.M., Zin, A.M., Sembok, T.M.T. 2006. Effective Range Detection Approach for Ancient Malacca Virtual Walkthrough. International Journal of Virtual Reality. Vol. 5, No 4. Pp.31-38. IPI Press USA.	International
23.	Nursuriati Jamil, Zainab Abu Bakar, Tengku Mohd Tengku Sembok. 2006. Retrieval of Songket Motifs Using Geometric Shape Descriptors International Journal Pattern Recognition and Machine Intelligence.	International
24.	Yousif, J. H. & Sembok, T. M. T. 2006. Design and Implement an Automatic Neural Tagger Based Arabic Language for NLP Applications. Asian Journal of Information Technology.	International
25.	Sunar, S.M., Zin, A.M., Sembok, T.M.T. 2006. Effective Range Detection Approach for Ancient Malacca Virtual Walkthrough International. Journal of Virtual Reality.	International
26.	Sembok, T.M.T. 2005. Word Stemming Algorithms and Retrieval Effectiveness in Malay and Arabic Documents Retrieval Systems. Transactions on Enformatika Systems Sciences and Engineering (ENFORMATIKA), Volume 10.	International
27.	Hamzah, M.P., Sembok, T.M.T. 2005. Enhancing Retrieval Effectiveness of Malay Documents by Exploiting Implicit Semantic Relationship Between Words, Transactions on Enformatika Systems Sciences and Engineering (ENFORMATIKA), Volume 10, December 2005.	International
28.	Jamil, N., Sembok, T.M.T. 2003. Gradient-Based Edge Detection of Songket Motifs, Digital Libraries: Technology and Management of Indigenous Knowledge for Global Access, ICADL 2003, LNCS 2911, pp. 578–589, 2003. ©Springer-Verlag Berlin Heidelberg.	International
29.	Abdullah, M.T., Ahmad, F., Sembok, T.M.T. 2003. Application of Latent Semantic Indexing on Malay-English Cross Language Information Retrieval, Digital Libraries: Technology and Management of Indigenous Knowledge for Global Access, 6 <sup>th</sup> ICADL 2003, LNCS 2911, pp. 578–589, 2003. ©Springer-Verlag Berlin Heidelberg.	International
30.	Noah, S.A.M., Zakaria, C.A., Sembok, T.M.T., Yusoff, M., Zainuddin, S., Yusoff, M.M., Ali, N.M. 2003. A Domain Specific Ontology Driven to Semantic Document Modelling, ICADL 2003, LNCS 2911, pp. 578–589, 2003. ©Springer-Verlag Berlin Heidelberg.	International
31.	Noah, S.A.M., Zakaria, C.A., Sembok, T.M.T., Yusoff, M.,	International

	Zainuddin, S., Yusoff, M.M., Ali, N.M. 2003. A Domain Specific Ontology Driven to Semantic Document Modelling, ICADL 2003, LNCS 2911, pp. 578–589, 2003. ©Springer-Verlag Berlin Heidelberg.	
32.	Sembok, T.M.T., Palasundram, K., Ali, N.M., Aidanismah, Y., Wook, T.M.T. 2003. Istilah Sains: A Malay-English Terminology Retrieval System Experiment Using Stemming and N-grms Approach on Malay Words, Jamil, N., Sembok, T.M.T. 2003. Gradient-Based Edge Detection of Songket Motifs, Digital Libraries: Technology and Management of Indigenous Knowledge for Global Access, ICADL 2003, LNCS 2911, pp. 578–589, 2003. ©Springer-Verlag Berlin Heidelberg.	International
33.	Abdullah, M.T., Ahmad, F., Sembok, T.M.T. 2003. Application of Latent Semantic Indexing on Malay-English Cross Language Information Retrieval, Digital Libraries: Technology and Management of Indigenous Knowledge for Global Access, 6 <sup>th</sup> ICADL 2003, LNCS 2911, pp. 578–589, 2003. ©Springer-Verlag Berlin Heidelberg.	International
34.	Sembok, T.M.T. 2003. Perspektif Kecerdasan Buatan. PEMIKIR. Utusan Melayu.	National
35.	Zaman, H.B., Norhayati A. Mukti, Nor Azan Mat Zin, Munir, Rohaya Arifin, Tengku Mohd T. Sembok, Mohammed Yusoff. 2000. Motivating Literacy Through MEL: A multimedia based tutoring system. The New Review of Children’s Literacy and Librarianship, vol.6, 2000. Taylor Graham. Pp. 115-124.	International
36.	Norhayati A. Mukti, H. Badioze Zaman, Tengku Mohd T. Sembok and Siew Pei Hwa. 2001. Courseware Development to Motivate Life-long reading Habits. in Multimedia at Work, Editors: Tiziana Catarci and Thomas D.C. Little. IEEE.	International
37.	Zainab Abu Bakar, Tengku Mohd T. Sembok, Mohamed Yusoff. 2000. “An Evaluation of Retrieval Effectiveness using Spelling-Correction and String Matching Methods on Malay Texts”, Jan. issue, <i>Journal of American Society of Information Science</i> , John Wiley.	International
38.	Mohamad Yusoff, Tengku Mohd. T. Sembok, Nor Laila Md. Noor. 2000. Mencari Kewujudan Gelagat Kekalutan Siri Masa: Satu Analisis Awal Terhadap Gelagat Kadar Faedah antara Bank, <i>Jurnal Pengurusan</i> , Jilid 18, UKM.	National
39.	Fatimah Ahmad, Tengku Mohd T. Sembok, Mohamed Yusoff. 2000. Retrieval Effectiveness Comparison on Stemmed and Non-stemmed Malay Texts, <i>International Science Journal</i> .	International
40.	Ekmekciogh F.C, Lynch M.F., Robertson A.M., Sembok T.M.T, Willett P., 1995. “Comparison of n-Gram Matching and Stemming for Term Conflation in English, Malay and Turkish Texts”, <i>Text Technology</i> , Vol. 6, No.1, Wright State University, USA.	International
41.	Fatimah Ahmad, Mohammed Yusoff, Tengku Mohd. T. Sembok. 1996. “Experiments with A Malay Stemming Algorithm”, <i>Journal</i>	International



	of American Society of Information Science.	
42.	Tengku Mohd. T. Sembok, 1995: "A Simple Unification Noun-phrase Grammar for a Document Retrieval System", Malaysian Journal of Computer Science, vol.8, no.1, Universiti Malaya, Kuala Lumpur.	International
43.	Mohammed Yusoff, Tengku Mohd. T. Sembok, Abdul Malik Zakaria, Amna Saad, 1995: "Penggunaan Konsep Sistem Pakar: Satu Penerokaan dalam Industri Insurans, Malaysian Journal of Computer Science, vol.8, no.1, Universiti Malaya, Kuala Lumpur.	International
44.	Hani Moh'd Al-Omari, Tengku Mohd. T. Sembok, Mohammed Yusoff, 1995. "ALMAS: An Arabic Language Morphological Analyser System", Malaysian Journal of Computer Science, Vol. 8, no.2, University of Malaya.	International
45.	Tengku Mohd T. Sembok, Mohammed Yusoff, Belal Abu Ata. 1995. "A Multilingual Document Retrieval System", Asian Libraries, Vol. 4, No.3, MCB University Press Limited, England.	International
46.	Mohammed Yusoff, Tengku Mohd T. Sembok, Mahbubur Rahim, 1994: "Problems in Computer-Based Information System Development", Asian-Pacific Journal of Information Management, Vol. 2, No.1, Hong Kong.	International
47.	Tengku Mohd. T. Sembok. 1987. "Inference under Uncertainty: INFERNO Calculus and Its Implementation", Sains Malaysiana, Jld. 16(4), 1987.	National
48.	Tengku Mohd. T. Sembok, 1986. "Inference Under Uncertainty: Using Bayesian Probability Theory", Malaysian Journal of Computer Science, Jld.2, 1986. (no.pages: 8)	International
49.	Tengku Mohd. T. Sembok, C.J. van Rijsbergen. 1990. SILOL: A simple logical-linguistic document retrieval system, Information Processing & Management, Vol. 26, No. 1, pp. 111-134, Pergamon Press.	International
50.	Tengku Mohd. T. Sembok. 1990. A Robust Parsing and Translation Strategy for Categorical Grammar, Sains Malaysiana, Jld. 19(4), 1990.	National
51.	Tengku Mohd. T. Sembok. 1985. Penjadualan Waktu Kuliah: Kes UKM, Sains Malaysiana, Jld. 14(4), UKM.	National
52.	Tengku Mohd. T. Sembok. 1984. "Satu Bahasa Pengaturcaraan Dalam Bahasa Malaysia", Sains Malaysiana, Jld.13(2), UKM.	National

#### 2.2.4 Proceedings Articles:

(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"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
1.	Ting M., Kadir, R.A., Sembok, T.M.T., Ahmad, F. & Azman, A. 2014. Feasibility Study Concerning the Use of Reasoning	International

	Technique in Semantic Reasoners, AIRS 2014. Sarawak.	
2.	Md Rabiul Awal, M. M. Hafizur Rahman, Rizal Mohd Nor, Tengku Mohd Tengku Sembok and Yasuyuki Miura. 2014. A New Derivative of Midimew-connected Mesh Network. The 10th IC2IT, 2014.	International
3.	Othman, R., Noordin, M. F., Tengku Sembok, T. M., Kheder, A. M., Ibrahim, M., Nuraihan, E. & Raudah, S. 2014. Personal learning environment framework for a self-help Maqam-based search system. In <i>Information and Communication Technology for The Muslim World (ICT4M), 2014 The 5th International Conference on</i> (pp. 1-6). IEEE.	International
4.	Sharyar Wani Mohamad Fauzan Noordin, Tengku Mohd. Tengku Sembok, Roslina Othman. 2014. Automatic Knowledge Base Constructor for Al-Quran Retrieval System. 2 <sup>nd</sup> International Conference on Islamic Applications in Computer Science and Technology, 12-13 Oct 2014, Amman, Jordan.	International
5.	Tamrin, M. I. M., Turaev, S., & Sembok, T. M. T. 2014. Weighted Watson-Crick automata. In <i>Proceedings of The 21st National Symposium On Mathematical Sciences (SKSM21): Germination of Mathematical Sciences Education and Research towards Global Sustainability</i> (Vol. 1605, pp. 302-306). AIP Publishing.	International
6.	Awal, M. R., Rahman, M.M. H., Nor, R. M., Sembok, T.M.T., & M.A.H. Akhand. 2014. A New Assignment of Free Links in Midimew Connected Mesh Network. 1st International Conference on Electrical Information and Communication Technology (EICT 2013), 13-15 February 2014, Khulna-9203, Bangladesh.	International
7.	Awal, M. R., Rahman, M. H., Nor, R. M., Sembok, T. M. B. T., Miura, Y., & Inoguchi, Y. 2014. Wire Length of Midimew-Connected Mesh Network. In <i>Network and Parallel Computing</i> (pp. 132-143). Springer Berlin Heidelberg.	International
8.	Sembok, T.M., Abu Ata, B., 2013. Arabic Word Stemming Algorithms and Retrieval Effectiveness. World Congress on Engineering 2013. London, U.K. 3-5 July, 2013.	International
9.	Tamrin, M. I. M., Sembok, T.M.T. 2012. Using Information Management Architecture to Support Flexible Supply Chain Management. International Conference on Advance Application and Technology. Pp.67-72.	International
10.	Tamrin, M. I. M., Sembok, T.M.T. 2012. Collaboration of integrative processes intermediaries supporting supply chain management. In: <i>Mathematical Methods for Information Science &amp; Economics</i> . WSEAS Press, pp. 59-64. ISBN 978-1-61804-148-7	International
11.	Sembok, T.M., Fauzan Noordin, Roslina Othman, Kadir, R.A. 2012. Logical-Linguistic Semantic in Search Engine 14th WSEAS International Conference on Mathematical Methods, Computational Techniques and Intelligent Systems	International

	(MAMECTIS'12), Porto, Portugal, 1-3 July 2012.	
12.	Ismail, N.K., Sembok, T.M.T. 2012. Two-Dimensional Text Visualization Of Malay Documents. Proceedings of Applied Mathematics in Electrical and Computer Engineering. Harvard, USA. January 25-27 2012.	International
13.	Jamil, N., Sembok, T.M.T., Abu Bakar, Z. 2011. Digital Archiving of Traditional Songket Motifs using Image Processing Tool. Proceedings of 2nd International Conference on Arts and Culture (ICAC '11). Montreaux, Switzerland. Dec. 29-31 2011.	International
14.	Sembok, T.M.T., Abd-El-Jaber. 2011. Query Expansion Based On User Profiling And Ontology (Invited Paper). International Conference of Digital Library Management, Kolkata, 11-13 Jan. 2011.	International
15.	Sembok, T.M., Zainab, A.B. 2011. Characteristics and Retrieval Effectiveness of n-gram String Similarity Matching on Malay Documents. Proceedings of the 10th International Conference on Applied Computer And Applied Computational Science (ACACOS '11). Venice.	International
16.	Sembok, T.M., Abu Ata, B., Zainab, A.B. 2011. A Rule-Based Arabic Stemming Algorithm. Internation Conference of European Computing. Paris, 28-30 April 2011.	International
17.	Kasturi Dewi Varathan, Tengku Mohd. Tengku Sembok, Rabiah Abdul Kadir, Nazlia Omar. 2011. Retrieving Answers from Multiple Documents Using Skolem Indexing. Proceeding of International Conference on Semantic Technology and Information Retrieval. Putrajaya.	International
18.	Kasturi Dewi Varathan, Tengku Mohd Tengku Sembok, Rabiah Abdul Kadir, Nazlia Omar. 2011. Building Knowledge Representation for Multiple Documents Using Semantic Skolem Indexing. Proceeding of International Conference on Software Engineering and Computer Systems. UMP. Kuantan.	International
19.	Kasturi Dewi Varathan, Tengku Mohd Tengku Sembok, Rabiah Abdul Kadir, Nazlia Omar. 2011. Skolem Preprocessing Using WordNet and Lexicon in Building Effective Knowledge Representation. ICEE. Bandung.	International
20.	Mouiad Alawneh, Nazlia Omer, Tengku Mohd. 2011. Machine Translation From English To Arabic, International Conference on Biomedical Engineering and Technology ,ICBET 2011 , Kuala Lumpur, Malaysia.	International
21.	Mouiad Alawneh, Tengku Mohd. 2011. "Handling the Agreement Problems in Machine Translation using Hybrid-Based", UMTAS 2011 Conference, Terengganu, Malaysia.	International
22.	Mouiad Alawneh, Tengku Mohd. 2011. " Hybrid-Based to Handling Agreement and Words Problems in Machine Translation from English- Arabic", HIS'11 Conference, Malacca, Malaysia.	International
23.	Mouiad Alawneh, Tengku Mohd. 2011. Rule-Based and Example-Based Machine Translation from English- Arabic, BIC-TA	International

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118.	H. Badioze Zaman, Tengku Mohd Tengku Sembok, Mohamed Yusoff, Norhayati Abdul Mukti, Azlina Ahmad, Belal Abu Ata, Azizah Jaafar, Azizi Abdullah, Md Jan Nordin, Nor Azan Mat Zin, Sufian Idris, Siti Fadzilah Mohd Noor, Nor Sakinah Mahmud, Hairuliza Mohd Judi, Hazilah Mohd Amin, Masri Ayob, Salwani Abdullah, Salha Abdullah, Shanorbanun Sarpan, Nazlia Omar, Kamsuriah Ahmad, Yuzita Yaacob dan Zuraidah Abdullah. 1999. A Hybrid ID Approach : Development of a Multimedia in Education (ME) Courseware in Mathematics for Smart Schools, <i>Prosiding : Pengintegrasian Teknologi dalam Sains Matematik</i> . Penang: USM.	National
119.	Tengku Mohd Tengku Sembok. 1999. Application of Mathematical Functional Decomposition in Document Indexing, <i>Prosiding: Pengintegrasian Teknologi dalam H. Badioze Zaman, Aziz Deraman, Mohd Shanuddin Zakaria, Mohamed Yusoff, Nor Azan Mat Zin, Norhayati Abdul Mukti, Tengku Mohd Tengku Sembok, Siti Rahaya Ariffin, Suzilawati Ismail dan Puteri Sabariah Megat Abdul Rahman</i> . 1999. Pembangunan Perisian Untuk Menggalakkan Literasi : Pendekatan Multimedia. <i>Prosiding Seminar Pemantauan Penyelidikan</i> , UKM, 30 Julai – 1 Ogos 1999. Bangi:UKM.	University
120.	Tengku Mohd. Tengku Sembok, H. Badioze Zaman, Mohammed Yusoff, Norhayati Abdul Mukti, Azlina Ahmad, Belal Abu Ata, Azizi Abdullah, Md. Jan Nordin, Muriati Mokhtar, Nor Azan Mat Zin, Sufian Idris, Siti Fadhilah Mohd Nor, Nor Sakinah Mahmud, Hairuliza Md. Judi, Hazilah Mohd Amin, Masri Ayob, Salwani Abdullah, Shanorbanun Sarpan, Salha Abdullah, Nazlia Omar, Kamsuriah Ahmad, Yuzita Yaacob, dan Zuraidah Abdullah. 1999. <i>ME Model and Fittings Principle: A Pedagogical Approach to Multimedia Courseware Development for Smart School</i> . Presented at ASIAPAC-21: International Conference on Communication in The Asia-Pacific Region: Towards The 21 <sup>st</sup> Century, 26-29 April 1999, UKM, Bangi, Malaysia.	International
121.	Tengku Mohd Tengku Sembok, Abdullah Mohd Zin, Azizah Jaafar, Belal Abu Ata, H. Badioze Zaman, Mohd Jan Nordin, Mohd Shanuddin Zakaria, Mohamed Yusoff, Mohd Zamri Murah, Muriati Mukhtar, Nazlia Omar, Phang See Wang, Saadiyah Darus dan Zuraidah Abdullah. 1999. Sistem Penyediaan dan Capaian Dokumen Multi Bahasa dan Multimedia. <i>Prosiding Seminar Pemantauan Penyelidikan</i> , UKM, 30 Julai – 1 Ogos 1999. Bangi:UKM.	University
122.	Juhana Salim, H. Badioze Zaman dan Tengku Mohd Tengku Sembok. 1999. Keperluan dan Penggunaan Maklumat Pengurus	University

	Dalam Sektor Bisnes : Satu Tinjauan Literatur, <i>Seminar Pemasaran Maklumat Kepada Industri</i> , 18 Oktober 1999, Tun Seri Lanang, UKM.	
123.	Tengku Mohd. T. Sembok. 1998. <i>Logical-linguistic Model in Information Retrieval: A Cognitive View</i> , Proceedings of the CSC'98: National Conference on Cognitive Science, 28-29 Sept. 1998, Mines Beach Resorts, Kuala Lumpur.	National
124.	H. Badioze Zaman, et al., 1998. <i>ME: A Multimedia Based Tutoring System for Mathematics</i> , ICIMU'98: Proceedinds of the International Conference on Information Technology and Multimedia, 28-30 Sept. 1998, UNITEN.	International
125.	Belal Abu Ata, Tengku Mohd T. Sembok, Mohamed Yusoff. 1998. <i>Implementions of A Malay Stemming Algorithm Using Hashing Technique</i> , Proceedinds of the ICIMU'98: International Conference on Information Technology and Multimedia, 28-30 Sept. 1998, UNITEN.	International
126.	Tengku Mohd T. Sembok, Mohamed Yusoff. 1998. " <i>Digital Economy: Malaysian Efforts, Issues and Problems</i> ", Proceedings of the Second International Management Accounting Conference II, July 13-14, 1998, Kuala Lumpur, Malaysian Institute of Accountants.	International
127.	Tengku Mohd. T. Sembok. 1998. <i>Logical-linguistic Model in Information Retrieval: A Cognitive View</i> , Proceedings of the CSC'98: National Conference on Cognitive Science, 28-29 Sept. 1998, Mines Beach Resorts, Kuala Lumpur.	National
128.	Zaman, H. B., et al., 1998. <i>ME: A Multimedia Based Tutoring System for Mathematics</i> , ICIMU'98: Proceedinds of the International Conference on Information Technology and Multimedia, 28-30 Sept. 1998, UNITEN.	International
129.	Belal Abu Ata, Tengku Mohd T. Sembok, Mohamed Yusoff. 1998. <i>Implementions of A Malay Stemming Algorithm Using Hashing Technique</i> , Proceedinds of the ICIMU'98: International Conference on Information Technology and Multimedia, 28-30 Sept. 1998, UNITEN.	International
130.	Tengku Mohd T. Sembok, Mohamed Yusoff. 1998. " <i>Digital Economy: Malaysian Efforts, Issues and Problems</i> ", Proceedings of the Second International Management Accounting Conference II, July 13-14, 1998, Kuala Lumpur, Malaysian Institute of Accountants.	International
131.	Juhana Salim, H. Badioze Zaman, Abdul Rahman Abdullah. 1997. "Information Needs and Use in Business: With Special Reference to Online Database Services, A Pilot Survey Report. Persidangan Kebangsaan Perkhidmatan Perpustakaan: Ke arah Pengurusan Maklumat Abad Ke-21, Ogos 18-19, 1997, Hotel Legend, Kuala Lumpur.	University
132.	Belal Abu Ata, Tengku Mohd T. Sembok, Mohamed Yusoff. 1997. "Implementation of Malay Stemming Algorithm using	International

	Hashing Technique”, IASTED International Conference on Computer Systems and Applications, 30 Mac – 2 April 1997, Yarmouk, Jordan.	
133.	Tengku Mohd T. Sembok. 1997. “ <i>Logical Imaging Retrieval: Relevance Feedback Retrieval with Nearest Neighbour Clusters</i> ”. Proceedings of the Fifteenth IASTED International Applied Informatics Conference. Innsbruck, Austria, Feb. 18-20 1997. USA:IASTED.	International
134.	Zainab Abu Bakar, Tengku Mohd T. Sembok, Mohamed Yusoff. 1997. “ <i>Experiment on Conflation Algorithms on Malay Texts for Document Retrieval</i> ”, Proceedings of the Fifteenth IASTED International Applied Informatics Conference. Innsbruck, Austria, Feb. 18-20 1997. USA:IASTED.	International
135.	Zaman, H.B. Tengku Mohd T. Sembok. 1997. “Distributed Multimedia: An Edge to Future Marketing Strategy in Malaysia”, Proceedings of the World Marketing Congress. Volume VIII. Kuala Lumpur, Crown Princess, June 24-27, 1997. Kuala Lumpur:UPM and Academy of Marketing Science, Singapore. Pp. 507-512.	International
136.	Tengku Mohd. T. Sembok, Mohammed Yusoff, Belal Abu Ata, 1995. “SISDOM: A Multilingual Document Retrieval System”, 2nd IEEE International Conference on Electronics, Circuits and Systems ICECS’95, 17-21 December 1995, Amman, Jordan.	International
137.	Tengku Mohd. T. Sembok, Mohammed Yusoff, Belal Abu Ata, 1995. “Design and Implementation of An Automatic Terminology Translation: English-Malay and Vice-Versa”, 2nd IEEE International Conference on Electronics, Circuits and Systems ICECS’95, 17-21 December 1995, Amman, Jordan.	International
138.	Hani Al-Omari, Tengku Mohd T. Sembok. 1995. “A Malay Spelling Checker”, 5th International Conference and Exhibition in Multilingual Computing, 7-9 April, 1995, University of Cambridge, UK.	International
139.	Tengku Mohd. T. Sembok, Mohammed Yusoff, Fatimah Ahmad, Belal Abu. 1995. “Pendekatan Multilingua kepada Sistem Capaian Dokumen: Satu Experiment dalam Bahasa Melayu-Inggeris”, Fifth International Conference on Translation, 21-23 November 1995, Johor Bahru.	International
140.	Fatimah Ahmad, Tengku Mohd. T. Sembok, Mohammed Yusuff. 1994. "A Malay Test Collection Characterisation", Proceeding of the 4th International Conference and Exhibition on Multilingual Computing, University of Cambridge, 7-9 April 1994.	International
141.	Tengku Mohd. T. Sembok, Mohammed Yusoff, Fatimah Ahmad. 1994. "A Malay Stemming Algorithm for Information Retrieval", Proceeding of the 4th International Conference and Exhibition on Multilingual Computing, University of Cambridge, 7-9 April 1994.	International
142.	Tengku Mohd. T. Sembok, C.J. van Rijsbergen. 1993.	International

	"IMAGING: A Relevant Feed-back Retrieval with Nearest Neighbour Clusters", Proceeding of the 15th BCS Information Retrieval Conference, 29-30 March 1993, Glasgow, United Kingdom.	
143.	Hani Mohd. Al-Omari and Tengku Mohd. T. Sembok, 1993. "Arabic Information Technology Present and Future", Pascasidang Seminar Siswazah '93, Fakulti Sains Matematik dan Komputer, Universiti Kebangsaan Malaysia.	University
144.	Moh'd M. Al-Smadi and Tengku Mohd. T. Sembok, 1993. "A Tutorial Package for Graphic Designs and Applied Arts", Pascasidang Seminar Siswazah '93, Fakulti Sains Matematik dan Komputer, Universiti Kebangsaan Malaysia.	University
145.	Asim b. Othman and Tengku Mohd. T. Sembok, 1993. "Pengakar Perkataan Melayu", Pascasidang Seminar Siswazah '93, Fakulti Sains Matematik dan Komputer, Universiti Kebangsaan Malaysia.	University
146.	Tengku Mohd. T. Sembok, Mohammed Yusof, Khairuddin Omar, Siti Mariam Shamsuddin & Belal Mustaffa Abu Ata. 1993. "SISDOM: Sistem Capaian Dokumen Multimedia", Prosiding Bengkel IRPA-UKM Ke-2, 19-22 Dis. 1993.	University
147.	Zainodin Jubok, Khairuddin Omar, Tengku Mohd. T. Sembok & Sahraf El-Deen Sami Horani, "Pengklasifikasian Corak Cap Jari Automatik", Prosiding Bengkel IRPA-UKM Ke-2, 19-22 Dis. 1993.	University
148.	Mohammed Yusof, Tengku Mohd T. Sembok & Hasmiah Kasimin, "Permodelan Berstruktur", Prosiding Bengkel IRPA-UKM Ke-2, 19-22 Dis. 1993.	University
149.	Tengku Mohd. T. Sembok, "Pembangunan Alat Perisian untuk Sistem Maklumat", Prosiding Bengkel IRPA-UKM Ke-2, 19-22 Dis. 1993.	University
150.	Mohammed Yusoff, Tengku Mohd. T. Sembok and Md. Mahbubur Rahim. 1992. "An Approach to the Development of A Decision Support Systems Tool", SEARCC '92: Proceeding of XI Conference of the South East Asia Regional Computer Conference, 11-14 August 1992, Kuala Lumpur.	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.	Reviewer Journal	2015	International	WSEAS
2.	Invited Speaker	2015	International	WSEAS
3.	Co-chair Conference & Paper Reviewer	2014	International	Asian Information Retrieval Society
4.	Editor Proceedings	2014	International	Asian Information Retrieval Society
5.	Chair Conference			
6.	Syarahen Majlis Bahasa Brunei-Indonesia-Malaysia (MABBIM) Lecture Series 2012 in Indonesia, Brunei and Malaysia (19, 21 & 25 June 2012)	2012	International	MABBIM
7.	Fellow of British Computer Society (FBCS), 2012.	2012	International	British Computer Society
8.	Adjunct Professor, eAsia University, 2012-now.	2012	University	eAsian University
9.	Adjunct Professor, UNITAR, 2012-now.	2012	University	UNITAR
10.	Fellow of Malaysian Science Society (FMSA), 2011.	2011	National	Malaysian Science Society
11.	Zaaba Chair, UPSI (Declined due to DVC post at UPNM) 2009.	2009	National	UPSII
12.	Gold Medal and Ram Rais Special Award, ITEX International	2009	International	WIPO

	Exhibition, Kuala Lumpur, 2009, HiCORE Islamic Banking System, (UKM-Fuziq Sdn Bhd Techno-Fund, Principal Researcher).			
13.	Fellow of Malaysian Academy of Sciences (FASc), 2008.	2008	National	Akademi Sains Malaysia
14.	Gold Medal, British Invention Show, London, 2007, M-DUQAS: Military Document Understanding and Question Answering System.	2007	Interntional	WIPO
15.	Gold Medal, Brussels Innova, Belgium, 2007, E-DUQAS: Energy Document Understanding and Question Answering System.	2007	Interntional	WIPO
16.	Royal Award: Anugerah Kebesaran Ahli Mahkota Terengganu (AMT), 2007.	2007	National	Terengganu State
17.	Gold Medal, IPTA Exhibition, Kuala Lumpur. 2006. SISDOM: Searching and Indexing Engine based on Word Morphology.	2006	National	JPT
18.	Silver Medal, British Invention Show, London. Oct. 2006: Songket Database Package: Content-	2006	Interntional	British

	based Retrieval. (UKM-UiTM Research Team).			
19.	Silver Medal, British Invention Show, London. Oct. 2006: Malay Translated Hadith Texts Retrieval System Using Clustering Technique. (UKM-UiTM Research Team).	2006	Interntional	British
20.	Silver Medal, New Inventions and Innovations, Geneva, April 2005: MEL2: Multimedia in Literacy	2005	Interntional	WIPO
21.	Silver Medal, New Inventions and Innovations, Geneva, April 2005: CITRA: Multimedia Courseware and Moral Values.	2005	Interntional	WIPO
22.	Gold Medal, Institution of Higher Learning Exhibition IPTA2005: Gold Medal, Research and Innovation Expo UKM 2003: ME Mathematical Courseware for Pre-Schools.	2005	Interntional	WIPO
23.	ICT Excellent Teacher 2004, Ministry of Energy, Water and Commucation, Malaysian National Computer Federation, and Maxis Communication Berhad Award.	2004	National	Ministry of Energy, Water and Commucation, Malaysian National Computer Federation, and Maxis Communication Berhad Award.

24.	Chairman, Engineering and Computer Science Discipline, Academy of Sciences Malaysia	2011-2013	National	AScM
25.	Member, Acreditation Committee, Malaysia Qualification Agency	2011-2013	National	MQA
26.	Member, Polytechnic Curriculum Development Council, Ministry of Higher Education	2011-now	National	KPM
27.	President, Malaysian Information Retrieval and Knowledge Management Society	2006-2014	National	NGO: PECAMP
28.	Chairman, Working Group on Malaysian Information Retrieval and Knowledge Management Society, Malaysian Research Education Network	2006-2014	National	KPM
29.	Chairman, Committee for Development of New Computing Curriculum for Malaysian Higher Education Certificate, Malaysia Examination Council	Since 1995	National	MPM
30.	Member, Steering Committee, New	2012-2013	National	MOSTI

	National ICT Roadmap, Minister of Science, Technology and Innovation			
31.	Member, Steering Committee, Board of Computing Professional Malaysia, Minister of Science, Technology and Innovation	2012-now	National	MOSTI
32.	Member, Steering Committee, ICT Roadmap of Higher Institutions of Learning, Minister of Higher Education	2012-2013	National	KPM
33.	Evaluators Panel on CS/IT programmes, Malaysia Qualification Agency	2012-now	National	MQA
34.	Exco Member, Malaysian Society of Engineering and Technology	2007-now	National	NGO: MYSET
35.	Member of Advisory Board in Computer Curriculum, UiTM		University	
36.	Member of Advisory Board in Computer Curriculum, UNITEN		University	
37.	Member of National Defence Research Council, Ministry of Defence	2007-2010	National	MINDEF
38.	Deputy Chairman, Committee on ICT and Multimedia, Malaysian Qualification Agency	2007-2010	National	MQA

39.	Protem President, Malaysian Information Technology Society (MITS)	2005	National	NGO: MITS
40.	Vice President, Artificial Intelligence Society, Malaysia (1992-94)	1992-94	National	NGO: AIS
41.	Member of Software Pioneer Status Committee, Malaysian Ministry of International Trade and Industry, (1992-1994)	1992-94	National	MITI
42.	Chairman, Technical Group in Computer Science, IEEE Malaysia (1991-1994)	1991-94	National	Professional Body: IEEE
43.	Member, Curriculum Committee of Information Technology, Universiti Malaysia Serawak (1992)	1992	National	Protem Committee UNIMAS
44.	Member, ICPC'92: International Computer Programming Competition 1992 Committee, Kuala Lumpur	1992	National	INTAN
45.	Chairman, Institutes of Higher Learning Programming Competition 1992 Committee, Kuala Lumpur	1992	International	ACM
46.	Member, STPM Computer Science Curriculum Dev	1993-94	National	MPM
47.	Member, Program Committee of International	1994	International	BCS

	Conference in Information Retrieval 1994, Dublin, Ireland			
48.	Member, Organizing Committee, Information Retrieval Conference, Australia, 1996	1996	International	Australia IR Society
49.	Member, Technical Committee, ICIT'94: International Conference in IT, Kuala Lumpur	1994	National	NITC
50.	Member of Education and Training Subcommittee, JPDN (1991-93)	1991-93	National	Jawatankuasa Pemprosesan Data Negara
51.	Member, Open System Committee, MAMPU, Prime Minister Department	1991-92	National	MAMPU
52.	Chairman, UKM IRPA Committee on Service Industries(ICT), UKM, 1995-2001	1995-01	University	UKM
53.	Chief Editor of Sains Malaysiana Journal, IT Section, UKM	1990-93	University	UKM
54.	Member of Board of Examiners, Malaysian National Computer Confederation (MNCC)	1990-92	National	MNCC
55.	Program Committed, , Information Retrieval Conference,	2001	International	Australia IR Society



	Australia, 2001			
56.	Chairman, Coordination Committee on IT Curriculum of Malaysian Institutes of Higher Learning	1990	National	Universities
57.	Member, Terengganu State Committee on Data Processing, Terengganu	1990-2000	State	Terengganu State
58.	Member, Intensive Research in Priority Areas Panel, Service Industries (IT), Ministry of Science, Technology and Environment	1990-1995	National	MOSTE
59.	Member, R&D Cluster Panel Experts, Ministry of Science, Technology and Environment	1990-1995	National	MOSTE
60.	Member, Industry Grant Scheme Panel of Experts, Ministry of Science, Technology and Environment	1990-1995	National	MOSTE
61.	Advisor to School of Information Technology, Universiti Utara Malaysia	1995	University	UUM
62.	Advisor to PJ Community College, Petaling Jaya, Selangor	2000	College	PJ Community College
63.	Advisor to Nilai Kolej, Negeri Sembilan	2000	College	Nilai Kolej, Negeri Sembilan
64.	Advisor to Cybernectics College, Cheras	2000	College	Cybernectics College, Cheras

65.	Advisor to Malaysian University College in Science and Technology, KUSTEM, Terengganu	2000	College	University College in Science and Technology, KUSTEM, Terengganu
66.	Evaluators Panel on IT programmes, National Accreditation Council, Ministry of Education	1995	National	Ministry of Education
67.	Member of Technical Committee: ACM/IEEE SIGIR Conference, 1990	1990	International	Professional Body: ACM
68.	Member of Technical Committee: Australian Conference in Information Retrieval, 1996, 1998	1996, 1998	International	Professional Body: Australia IR Society
69.	Chairman of Technical Committee: The 6 <sup>th</sup> International Conference of Asian Digital Libraries (ICADL 2003)	2003	International	ICADL Committee
70.	Member, Regional Meeting on the Ethics of Science and Technology, 4-8 November 2003	2003	International	UNESCO

**(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.	ICT Ethics	2002-2003	UNESCO	US20,000	1 year
2.	Mathematics Courseware for Smart Schools – Project Head	1996-1992	DTech	RM600,000	2 years
3.	Language Technology: Word alignment and SSTC.	2006-2007	MIMOS	RM310,000	1 year

**(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.	Head of Computer Science Dept.	Universiti Kebangsaan Malaysia(UKM)	(Oct 1984 - Jun 1985; May 1990 - April 1994)
2.	Commonwealth Research Fellow	Sheffield University	Sept 1994 - Jun 1995)
3.	Head of Smart School Project	UKM-DTech in Telekom Malaysia Smart School Consortium (MSC Smart School Application Flagship)	(1996-2000)
4.	Deputy Dean	Faculty of Information Science and Technology (UKM)	1995-1999)
5.	Dean, Faculty of Information Science and Technology (UKM)	Faculty of Information Science and Technology (UKM)	Oct 2000 – Mac 2001)
6.	Deputy Director Research Management Centre (UKM)	Research Management Centre (UKM)	Sept. 2005 – April 2007).
7.	Deputy Vice Chancellor (Academic and International Affairs)	UPNM	(15 April 2007- 15 April 2010).
8.	Professor/Dean in Computer Science (Kulliyah ICT International Islamic University Malaysia)	(Kulliyah ICT International Islamic University Malaysia IIUM)	(Jan 2012- Oct 2013).
9.	Adjunct Professor eAsia University	eAsia University	2012-now.

10.	Adjunct Professor UNITAR	UNITAR	2012-now.
11.	Director, Cyber Security Centre, UPNM	Cyber Security Centre, UPNM	1 Jan 2014-now

**(d) Service to the community**

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

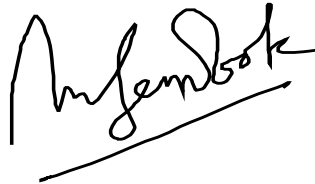
No	Level of involvement	Activity	Organiser	Venue	Date/Year/Duration
1.	Co-Chair, Paper reviewer, Welcome Speech.	Asian IR Conference	Asian Information Retrieval Society	Sarawak	Dec 2014
2.	Member	Curriculum Baru STPM, Chairman ICT and Multimedia	MPM	MPM-UTeM	2014-now
3.	Member	Member: 11th Malaysia Plan 2016-2020 - ICT Human Capital Development Committee. 2014.	EPU	Univ. Malaya	2013-2014
4.	Chairman	Curriculum Baru STPM, Chairman ICT and Multimedia	MPM	MPM	2010-2012
5.	Member	MQA Accreditation Committee	MQA	MQA	2012-2014
6.	Member	Member of EAC, Malaysia Science and Engineering Technology(mSET) for Malaysia Board of Technologists. 2008-now.	MySET	UPM	2008-now
7.	Member	Member of Steering Committee, MOSTI: New ICT Road Map 2012-2013 (Consultant: Frost & Sullivan)	MOSTI	MOSTI	2012-2013
8.	Chairman	Chairman and Designer of	KPT	KPT	2005-2006

		Academic Profiling System: Malim Sarjana for Ministry of Higher Learning. 2005-2006.			
9.	Director	Director of Secondary Mathematics, MSC Smart School Application Flagship (RM400 million Project), 1998-2000.	MOE	MOE	1998-2000

I declare that all the information in this form is true and correct. The University has the right to withdraw or reject the application if any information in this form found to be untrue.

Signature

:

A handwritten signature in black ink, appearing to read 'Tengku Mohd T. Sembok', written over a horizontal line.

Name

: Prof. Dr. Tengku Mohd T. Sembok

Faculty/Department

: Department of Computer Science, FSTP.  
(Cyber Security Center, UPNM)

Date

: 8 Feb. 2015

I verify that, to the best of my knowledge, all the information provided in the forms are true.

Dean

Signature and Stamp

:

Date

: