

CURRICULUM VITAE

SECTION 1 : PERSONAL AND SERVICE PARTICULAR

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Race : Malay



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SECTION 2 : ACADEMIC QUALIFICATIONS OBTAINED

No	Qualification	Field of Study	Class of Award	Date	Univ./Institution
1.	Doctorate Degree (PhD)	Keselamatan Maklumat	Passed Phd	30/06/2007	ROYAL HOLLOWAY, UNIVERSITY OF LONDON, UNITED KINGD
2.	Master Degree	Keselamatan Maklumat	Passed Master Degree	01/11/1996	ROYAL HOLLOWAY, UNIVERSITY OF LONDON, UNITED KINGD
3.	Bachelor Degree	Sains Komputer	Second Class Lower Honours	12/08/1994	UNIVERSITY OF MALAYA (UM)
4.	SPM/MCE/SAP/SPVM/SPMV	Lain-Lain	Passed	31/12/1987	SEK MEN ST. MICHAEL, ALOR SETAR, KEDAH
5.	SRP/PMR/LCE/SCHOOL CERTIFICATE	Lain-Lain	Passed	31/12/1985	SEK MEN ST. MICHAEL, ALOR SETAR, KEDAH

SECTION 3 : AREAS OF SPECIALIZATION

No	Main Areas	Sub Areas	Area (Specialization)	Keywords
1	Information, Computer And Communication	Security System	Role-Based Access Control, Graphical Authentication, Knowledge-Based	Information Systems Security Management

	Technology (Ict)		Authentication, Cryptography, Mobile Security	
2	Information, Computer And Communication Technology (Ict)	Information Systems Security Management	Human Impact Management	Adaptation of Social and Organisational Culture Model, Metrics to Measure Information Security Culture
3	Information, Computer And Communication Technology (Ict)	Knowledge Management	Information Security Culture	Information Security Awareness, Training and Education
4	Information, Computer And Communication Technology (Ict)	E-Culture (Electronic Information Security Culture)	Informational Of Information Security Culture	Information Security Web Portal, Guidelines or Books
5	Information, Computer And Communication Technology (Ict)	Information Systems	It Glossary, Multimedia System	Information Systems for Society

SECTION 4 : TEACHING

Post Graduate

No	Course Title & Code	Academic Session	No. of Students	No. of Contact Hours	Lectures/ Tutorials/ Practicals
1	OPERATING SYSTEMS	2000/2001 (1)	14	42	Lectures,Tutorials
2	OPERATING SYSTEMS	2001/2002 (1)	30	42	Lectures,Tutorials
3	FOUNDATIONS OF INFORMATION TECHNOLOGY	2007/2008 (1)	48	42	Lectures,Tutorials
4	NETWORK SECURITY AND MANAGEMENT(#WXGE6105)	2007/2008 (2)	25	42	Lectures,Tutorials,Practicals
5	NETWORK SECURITY AND MANAGEMENT	2008/2009 (2)	7	42	Lectures,Tutorials
6	RESEARCH FOUNDATION IN COMPUTER SCIENCES	2008/2009 (2)	40	21	Lectures,Tutorials
7	NETWORK SECURITY AND MANAGEMENT	2009/2010 (2)	5	42	Lectures,Tutorials

First Degree

No	Course Title & Code	Academic Session	No. of Students	No. of Contact Hours	Lectures/ Tutorials/ Practicals
1	WS312-PENGAUDITAN KOMPUTER	1996/1997	100	45	Lectures,Tutorials
2	WS405-KESELAMATAN KOMPUTER & PENGEMBALIAN BENCANA	1997/1998	100	45	Lectures,Tutorials
3	WS312-PENGAUDITAN KOMPUTER	1997/1998	100	45	Lectures,Tutorials

4	WRES3304-COMPUTER CRIME	1997/1998	100	45	Lectures,Tutorials
5	WXES1301-OPERATING SYSTEM	1997/1998	200	45	Lectures,Tutorials
6	WS405-KESELAMATAN KOMPUTER & PENGEMBALIAN BENCANA	1998/1999	110	45	Lectures,Tutorials
7	WRES3301-CRYPTOGRAPHY	1998/1999	100	45	Lectures,Tutorials
8	WXES2301-COMPUTER SECURITY & DISASTER RECOVERY	1998/1999	200	45	Lectures,Tutorials
9	WXES1301-OPERATING SYSTEM	1998/1999	200	45	Lectures,Tutorials
10	WXET2301-COMPUTER SECURITY & DISASTER RECOVERY	1999/2000	167	84	Lectures,Tutorials
11	WXES2302-DATA COMMUNICATION & COMPUTER NETWORKING	1999/2000	371	84	Lectures,Tutorials
12	WXET2301-COMPUTER SECURITY & DISASTER RECOVERY	2000/2001	250	84	Lectures,Tutorials
13	WXES2105-DATA COMMUNICATION I	2000/2001	600	84	Lectures,Tutorials
14	WXET2301-COMPUTER SECURITY & DISASTER RECOVERY	2001/2002 (1)	251	42	Lectures,Tutorials
15	WXES2105-DATA COMMUNICATION I	2001/2002 (1)	200	42	Lectures,Tutorials
16	WRES3306-DISASTER RECOVERY PLANNING	2005/2006 (2)	107	42	Lectures,Tutorials
17	WRES2101-INTERNET & INTRANET	2005/2006 (2)	90	42	Lectures,Practicals
18	WXES2104-SYSTEM ANALYSIS & DESIGN	2005/2006 (2)	288	42	Lectures,Tutorials
19	WXET2143-INTRODUCTION TO OPERATING SYSTEM	2006/2007 (2)	6	42	Lectures,Tutorials
20	WXET3143-INTRODUCTION TO COMPUTER NETWORK	2006/2007 (2)	4	42	Lectures,Tutorials
21	WRES3307-COMPUTER SECURITY	2006/2007 (2)	2	42	Lectures,Tutorials
22	WRES3307-COMPUTER SECURITY	2006/2007 (1)	111	42	Lectures,Tutorials
23	WRES3304-COMPUTER CRIME	2006/2007 (1)	121	42	Lectures,Tutorials
24	WXES1110-OPERATING SYSTEM	2007/2008 (2)	48	42	Lectures,Tutorials
25	WXES1110-OPERATING SYSTEM	2007/2008 (1)	214	42	Lectures,Tutorials

26	WXES1110-OPERATING SYSTEM	2008/2009 (1)	31	42	Lectures,Tutorials
27	WRES3307-COMPUTER SECURITY	2008/2009 (1)	30	42	Lectures,Tutorials
28	WRES2109-MATHEMATICS IN NETWORKING	2008/2009 (2)	30	42	Lectures,Tutorials
29	WRES3301-CRYPTOGRAPHY	2008/2009 (2)	35	42	Lectures,Tutorials
30	WRES3313-WIRELESS NETWORK SECURITY	2009/2010 (1)	25	42	Lectures,Tutorials
31	WRES3301-CRYPTOGRAPHY	2009/2010 (2)	66	56	Lectures,Tutorials
32	TSS 2223 – COMPUTER NETWORK SECURITY	2010/2011 (1)	34	42	Lectures, Tutorials

Pre-Degree (if applicable)

No	Course Title & Code	Academic Session	No. of Students	No. of Contact Hours	Lectures/ Tutorials/ Practicals
1	SAINS KOMPUTER 1	2000/2001	100	12	Lectures

Diploma (if applicable)

No	Course Title & Code	Academic Session	No. of Students	No. of Contact Hours	Lectures/ Tutorials/ Practicals
1	WRGD6331-COMPUTER SECURITY & DISASTER RECOVERY	1998/1999	5	45	Lectures,Tutorials
2	WRGD6331-COMPUTER SECURITY & DISASTER RECOVERY	1999/2000	3	45	Lectures,Tutorials
3	WRGD6331-COMPUTER SECURITY & DISASTER RECOVERY	2000/2001	3	42	Lectures,Tutorials
4	WXGD6106-DATA COMMUNICATION & COMPUTER NETWORK	2001/2002 (1)	3	42	Lectures,Tutorials

Others (if applicable)

No	Course Title & Code	Academic Session	No. of Students	No. of Contact Hours	Lectures/ Tutorials/ Practicals
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SECTION 5 : SUPERVISIONS

Post Graduate (Ongoing)

No	Name of Candidate	Field of Research/Title of thesis	Date of Registration	Academic Session	Name of Degree	Due to be Completed	Individual/Sharing
1	Govind Ram Kumar Note: Request for postponement	Query Directed Password at Call Centre Environment (tentative)	02-JUL-07	2007/2008 (I)	Master of Computer Science	2011	Individual
2	Zuo Yang Ping	Access Control in P2P	02-JUL-07	2007/2008 (I)	Master of Computer	2011	Individual

		environment (tentative)			r Science		
3	Mohamed Ali Saleh Abomhara (WGA070026)	Enhancing Selective Encryption for H.264/AVC Using Advanced Encryption Standard	14-NOV-08	2008/2009 (())	Master of Computer Science	2010 or early 2011	Individual
4	Abdalla Abdel Hamed Mohamed Madani (WGA070097)	Securing Mobile Messaging Using XML Key Management Specification		2007	Master of Computer Science	2010 or early 2011	Individual
5	Nor Azliza Ab Wahab (WGA040060)	Intrusion Detection System (Tentative)		2009	Master of Computer Science	2010 or Early 2011	Individual
6	Aina Sherin Ibrahim (WGA090026)	Network Security Management (Tentative)		2009	Master of Computer Science	2011	Co-Supervisor
7	Rozela Hanim Yusof (WGA090027)	Network Security Management (Tentative)		2009	Master of Computer Science	2011	Co-Supervisor
8	Hamid Mohamazadem Esfahani Nezhad (WGA070041)	Malware Detection (Tentative)		2009	Master of Computer Science	2011	Co-Supervisor
9	Saman Mirza Abdulla	Using Biological Model To Detect Malicious Code (tentative)	16-OCT-08	2008/2009 (())	PhD	2011	Individual
10	Ahmad Nazri Mansor (WHA040022)	Privacy in Cyberspace (Tentative)		2004/2005 (())	PhD	2011	Individual
11	Mohammad F. S. Abuhweidi (WHA100013)	Information Security Management (Tentative)	13 July 2010	2010/2011 (Sem I)	PhD	2013	Co-Supervisor

Post Graduate (Completed)

N o	Name of Candidate	Field of Research/Title of thesis	Date of Registration	Academic Session	Name of Degree	Year and Duration of Completion (month)	Individual/Shar ing
1	Siti Rahayu binti Selamat (WGA98013)	Web Server Scanner: Scanning On IIS, CGI and HTTP	01-JUL-98	1998/1999(1)	Master of Computer Science	1999 (17)	Individual
2	Lim Boon Peng	Role-Based Access	01-JUL-99	1999/2000(1)	Master of Computer	2000 (13)	Individual

	(WGA99034)	Control in Kidney Dialysis Information System			Science		
3	Lee Chee Kiam	Enhanced Password-Based Authentication Protocol	01-JUL-99	1999/2000(1)	Master of Computer Science	2000 (13)	Individual
4	Low Chin Seng (WGA99028)	Disaster recovery planning : local and remote data backup system	01-JUL-99	1999/2000(1)	Master of Computer Science	2000 (13)	Individual
5	Murugan a/l Thangavelu (WGA040032)	Combating fraud and theft threats at host level using Intrusion Prevention System	02-JUL-07	2006/2007(1)	Master of Computer Science	2009	Individual
6	Lim Hooi Li	Graphical Password System Resistant to Shoulder Surfing (tentative)	02-JUL-07	2007/2008(1)	Master of Computer Science	2009	Individual
7	Lai Ngan Kuen	Secure Mobile Messaging Using Public Key Infrastructure : mPKI		2008/2009(2)	Master of Computer Science	2009	Individual
8	Daryoush Naghneh Abbaspour (WGA060094)	A Key and Certificate Management For Mobile MMS Encryption System	13-JUN-08	2008/2009((	Master of Computer Science Program me with Coursework and Dissertation	2010	Individual
9	Masood Mansoori	Improving Exposure of Intrusion Deception System Through Implementation of Hybrid Honeypot			Master of Computer Science Program me with Coursework and Dissertation	2010	Individual

First Degree/Diploma/Pre-Degree

No	Academic Session	No. of Candidates	Course Title	Individual/Sharing	Status
1	1997/1998 ()	5	Final Year Projects	Individual	Completed
2	1998/1999 ()	22	Final Year Projects	Individual	Completed
3	1999/2000 (1,2)	24	Final Year Projects	Individual	Completed
4	2000/2001 (1,2)	13	Final Year Projects	Individual	Completed
5	2001/2002 (1)	15	Final Year Projects	Individual	Completed
6	2006/2007 (1,2)	4	Final Year Projects	Individual	Completed
7	2007/2008 (1,2)	6	Final Year Projects: Graphical Authentication Role Based Access Control Query Directed Passwords	Individual	Completed
8	2007/2008 (2)	2	Final Year Projects	Individual	Completed
9	2008/2009 (1)	6	Final Year Projects	Individual	Completed

Role as Academic Adviser at first degree level

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No	Academic Session	No. of Candidates	No. of Contact Hours Per Year
1	1998/1999 (1,2)	30	30
2	1999/2000 (1,2)	40	40
3	2000/2001 (1,2)	50	50
4	2001/2002 (1)	30	30
5	2005/2006 (2)	30	30
6	2006/2007 (1,2)	30	30
7	2007/2008 (1,2)	30	30
8	2008/2009 (1,2)	30	30
9	2009/2010(1,2)	30	30

SECTION 6 : RESEARCH PROJECTS

Research since appointment as academic staff in UM.

Research Project : Completed

No	Title	Source and Amount of Financial Assistance	Start	End	Role	Research Result
1	The Development of Quality Assurance Model in the Implementation of Information Technology for SMEs in Malaysia,	(RM 75000.00)	2007	2008	Co-Investigator	

	RM 75,000.00					
2	Interactive Multimedia for Learning Trigonometry	UM (RM 3500.00)	1996	1997	Principal Investigator(PI)	CD and 2 papers published at conference
3	Security Issues and Software Piracy: A Study of Use Attitude of Organisations in Malaysia	UM (RM 2500.00)	1997	1998	Principal Investigator(PI)	Ideas on how to initiate PhD research
4	Attitude of Choosing a Good Password Amongst Students in FSKTM	UM (RM 1100.00)	1998	1999	Principal Investigator(PI)	Ideas on how to initiate PhD research
5	Optimal Resources: Proposed Linux Based Thin Client System	None (RM 0.00)	2000	2001	Principal Investigator(PI)	2 papers have published

Research Project : Ongoing

No	Title	Source and Amount of Financial Assistance	Start	End	Role	Research Objective
1	Customer Verification Using Query Directed Password in Call Centre Environment	UM (RM 31000.00)	2007	2008	Principal Investigator(PI)	To identify appropriate query directed passwords which is suitable for password verification To develop a web-based system on password verification.
2	SMS/MMS Encryption for Secure Mobile Communication using Public Key Infrastructure: M-PKI	MOSTI (RM 186200.00)	2007	2009	Co-Investigator	To encrypt sms/mms message To decrypt sms/mms message
3	Pembangunan Model Jaminan Kualiti Bagi Pelaksanaan Teknologi Maklumat Untuk Perusahaan Kecil dan Sederhana di Malaysia (Development of Quality Assurance Model for IT Implementation on SMEs in Malaysia)	UM (RM 50000.00)	2007	2008	Co-Investigator	To develop a model of quality assurance for IT implementation at SMEs in Malaysia
4	An evaluation framework for information security culture	(RM 56500.00)	2009	2010	Principal Investigator(PI)	

Research Interest

No	Title	Keywords
1	Security Management	
2	Human Impact Management	
3	Information Security Culture	
4	Information Security Awareness, Training and Education	
5	Disaster Recovery Plan	

SECTION 7 :CONSULTANCY PROJECT

Consultancy since appointment as academic staff in UM.

Activities as Consultant

No	Name of Project (if applicable)	Role	Organisation	Start Date	End Date
1	Conformity Assessment (Aktiviti Penilaian Ketepatan) Under Certification Bodies Accreditation Scheme (di Bawah Skim Akreditasi Badan-Badan Pensijilan) Area: Information Security (bidang keselamatan maklumat)	Technical Expert	Jabatan Standard Malaysia, Kementerian Sains, Tteknologi dan Inovasi	2006	2008
2	Text Book of Network Support System Form 4 & 5 (Buku Teks Sistem Sokongan Rangkaian Tingkatan 4 dan 5)	Penulis (Writer)	Dewan Bahasa dan Pustaka	2006	2007
3	CDC - ICT Form 4	Content Provider	Content Solutions Sdn Bhd	2006	2007
4	Committee of IT Terminology MABBIM & DBP (Jawatankuasa Istilah Teknologi Maklumat MABBIM & Dewan Bahasa dan Pustaka)	Penggubal dan AJK	Dewan Bahasa dan Pustaka	2000	Present
5	Translation of Microsoft Office 97 (Penterjemahan Buku Microsoft Office) 97	Penterjemah	Microsoft Press (a division of Microsoft Corporation)	1997	1998
6	I-Citizen	Expert Advisor	Prestariang	2009	Present

SECTION 8 : RECENT SELECTED PUBLICATIONS

Publications since appointment as academic staff in UM.

Book

No	Publications
1.	Mohd Hazali Mohamed Halip, Omar Zakaria, Rosli Salleh (2007), "Sistem Sokongan Rangkaian Tingkatan 4 & 5" (Network Support System Form 4 & 5), Dewan Bahasa & Pustaka (DBP), Kuala Lumpur, 2007 pp248
2.	Omar Zakaria and Miss Laiha Mat Kiah (2002), Pengenalan Kepada Keselamatan Komputer (An Introduction to Computer Security), Mc-Graw Hill (M) Sdn Bhd, pp115

Chapter In Book

No	Publications
1.	Omar Zakaria, (2006), "Internalisation of Information Security Culture Amongst Employees Through Basic Security Knowledge", Proceedings of the IFIP TC-11 21st International Information Security Conference (SEC 2006), Springer Science & Business Media, 22- 24 May 2006, pp 437-441
2.	Omar Zakaria (2005), "Employee Security Perception in Cultivating Information Security Culture", IFIP TC11 WG11.1 AND WG11.5 Joint Working Conference on Security Management, Integrity and Internal Control in Information Systems, Springer Science and Business Media, Fairfax, Virginia (VA), pp 83-92

Academic Journals

No	Publications
1.	M. Abomhara, O. Zakaria and Othman O. Khalifa (2010), "Suitability of Using Symmetric Key To Secure

	Multimedia Data: An Overview", Journal of Applied Sciences (accepted)
2.	M. Abomhara, Omar Zakaria, Othman O. Khalifa, A.A Zaidan, B.B Zaidan (2010),"Enhancing Selective Encryption for H.264/AVC Using Advanced Encryption Standard",International Journal of Computer and Electrical Engineering, 2(2): 223-229
3.	M. Abomhara, Omar Zakaria, Othman O. Khalifa (2010), "An Overview of Video Encryption Techniques", International Journal of Computer Theory and Engineering, 2(1): 103-110
4.	X. Li, R. Salleh and Omar Zakaria, (2009) "Wireless Spectrum Combination Protocol for 4G Networks", Journal of Applied Sciences, Issue 9, No. 2, pp 334-341
5.	X.Li, R. Salleh and Omar Zakaria, (2009), "Mobile Multimedia Control Model for Fire Disaster of City Building", Journal of Applied Sciences, Issue 9, No. 2, pp304-311
6.	Abdullah Gani, Xichun Li, Lina Yang, Omar Zakaria, Nor Badrul Anuar (2009),"Multi-Bandwidth Data Path Design for 5G Wireless Mobile Internets", , Vol. 6, Issue 2, February 2009, pp 159-168
7.	Nor Badrul Anuar, Lai Ngan Kuen, Omar Zakaria, Abdullah Gani, Ainuddin Wahid Abdul Wahab (2009), "Usability and Performance of Secure Mobile Messaging: M-PKI", WSEAS Transactions on Information Science & Applications, Vol.6, Issue 2, February 2009, pp 179-189
8.	Abdullah Gani, Qi Han, Nor Badrul Anuar, Omar Zakaria (2009), Enhancing DSR Protocol Performance in Mobile Ad Hoc Network Using ACK Reply. WSEAS TRANSACTIONS ON COMMUNICATIONS, Vol 8 (2)(ISI/Scopus indexed) (ISI-Cited Publication)
9.	Abdullah Gani, Lina Yang, Nor Badrul Anuar, Omar Zakaria, Ros Surya Taher, Implementing Lightweight Reservation Protocol for Mobile Network Using Hybrid Schema. WSEAS TRANSACTIONS ON COMPUTERS. Vol 8(3), 2009. (ISI/Scopus indexed) (ISI-Cited Publication)
10.	A. H. Lashkari, O. Zakaria, R. Salleh, S. Farmand, A wide-range survey on Recall-Based Graphical User Authentications algorithms based on ISO and Attack Patterns, International Journal of Computer Science and Information Security (IJCSIS), Vol. 6, No. 3, 2009, USA
11.	A. H. Lashkari, O. Zakaria, R. Salleh, S. Farmand, Shoulder Surfing Attack in Graphical Password Authentication, International Journal of Computer Science and Information Security (IJCSIS), Vol. 6, No. 2, 2009, USA.
12.	X. Li, R. Salleh, O. Zakaria, Mobile Multimedia Control Model for Fire Disaster of City Building, Journal of Applied Sciences, ISSN 1812-5654, Issue 9, No. 2, pp. 304-311, 2009
13.	Nor Badrul Anuar, Hasimi Sallehudin, Abdullah Gani , Omar Zakaria (2008), "Identifying False Alarm for Network Intrusion Detection System Using Hybrid Data Mining and Decision Tree", Malaysian Journal of Computer Science, Vol. 21, Issue. 2, pp 101-115
14.	Nor Badrul Anuar, Lai Ngan Kuen, Omar Zakaria, Abdullah Gani, Ainuddin Wahid Abdul Wahab (2008), "GSM Mobile SMS/MMS using Public Key Infrastructure: m-PKI". WSEAS Transactions on Computers, Vol 7, Issue 8, August 2008, pp 1219-1229.
15.	Abdullah Gani, Xichun Li, Lina Yang, Omar Zakaria (2008) "Radio Frequency Combination for TCP/IP Suite Protocol Improvement in 4G Mobile Internet Networks", International Journal of Communications, Issue 1, Volume 2, 2008: 27-36
16.	Emran Mohd Tamil, Abdul Hamid Othman, Shadil Akimi Zainal Abidin, Mohd Yamani Idna Idris, Omar Zakaria (2007), "Password Practices: A Study on Attitudes towards Password Usage among Undergraduate Students in Klang Valley, Malaysia", Journal for the Advancement of Science & Art, Vol. 3. pp. 37-42 (ISSN 1823-903X)
17.	Nor Badrul Anuar, Omar Zakaria, and Chong Wei Yao (2006), "Honeypot through Web (Honeyd@WEB): The Emerging of Security Application Integration", Journal of Issues in Informing Science and Information Technology, Volume 3, 2006. pp 45 - 56.
18.	Abdullah Gani, Omar Zakaria, Nor Badrul Anuar Jumaat (2004), "A Markov Decision Process Model for Traffic Prioritisation Provisioning", Journal of Issues in Informing Science and Information Technology, Vol. 1 2004, pp 905-913
19.	Lim Boon Peng, Omar Zakaria and Mustaffa Kamal Mohd Nor (2001),"Role-Based Access Control in Kidney Dialysis Information System, Journal of Computer Science, Vol.14, Issue: 2, December 2001,

Proceeding

No	Publications
1.	Samaneh Farmand and Omar Zakaria 2010. Improving graphical password resistant to shoulder surfing using RBSR4. The 2nd IEEE International Conference on Information Management and Engineering (ICIME), Chengdu, CHINA
2.	M. Abomhara, Omar Zakaria, Othman O. Khalifa, (2009, "Design a New Selective Video Encryption Using Computation Between H.264/AVC and AES Encryption Algorithm", Asia Pacific Defence & Security Technology Conference (DSTC) 6-7 October 2009 Kuala Lumpur.
3.	Saman Mirza Abdulla, Omar Zakaria, (2009), "Devising a Biological Model to Detect Polymorphic Computer Viruses Artificial Immune System (AIM): Review," icctd, vol. 1, 2009 International Conference on Computer Technology and Development, pp 300-304
4.	Ahmed.K.Hasan, A.A.Zaidan, Rosli Salleh, Omar Zakaria, B.B.Zaidan and S.M.Mohammed (2009), "Throughput Optimization of Unplanned Wireless Mesh Networks Deployment Using Partitioning Hierarchical Cluster (PHC)", Proceedings of the World Congress on Engineering 2009 Vol I, WCE 2009, July 1 - 3, 2009, London, U.K pp 907-911
5.	Ahmed K. Hasan, A.A. Zaidan, Rosli Salleh, Omar Zakaria, B.B. Zaidan, and S.M. Mohammed, Throughput Optimization of Unplanned Wireless Mesh Networks Deployment Using Partitioning Hierarchical Cluster (PHC), Proceedings of the World Congress on Engineering 2009, Vol 1, WCE 2009, July 1-3 2009, London UK
6.	A. H. Lashkari, S. Farmand, R. Salleh, O. Zakaria, Recall-Based Graphical User Authentication Based On Attacks Patterns, The 13th IEEE International Multitopic Conference (INMIC 2009), 14-15 Disember 2009, Islamabad, Pakistan.
7.	Xichun Li, Rosli Salleh, Abdullah Gani and Omar Zakaria (2009), "Multi-Network Data Path for 5G Mobile Multimedia", 2009 International Conference on Communication Software and Networks (ICCSN 2009) (IEEE Proceedings), 27-28 February 2009, Macau, China
8.	Xichun Li, Abdullah Gani, Rosli Salleh, Omar Zakaria, "The Future of Mobile Wireless Communication Networks", 2009 International Conference on Communication Software and Networks (ICCSN 2009) (IEEE Proceedings), 27-28 February 2009, Macau, China
9.	Abdullah Gani, Xichun Li, Lina Yang, Omar Zakaria (2008),"TCP/IP Suite Enhancement for 4G Mobile Multimedia Internet Networks", 8th WSEAS International Conference on Multimedia Systems and Signal Processing (MUSP'08), Hangzhou, China, April 6-8, 2008, pp 229-235
10.	Nor Badrul Anuar, Muhammad Azlan Ibrahim, Ainuddin Wahid Abdul Wahab and Omar Zakaria (2008), "SANASms: Secure Short Messaging System for Secure GSM Mobile Communication", Proceedings of ECIW 2008 The 7th European Conference on Information Warfare and Security, University of Plymouth, UK 30 June - 1 July 2008, pp1-6
11.	Xichun Li, Abdullah Gani, Lina Yang, Omar Zakaria & Nor Badrul Anuar (2008), "Mix-Bandwidth Data Path Design for 5G Real Wireless World", 12th WSEAS International Conference on Communications, WSEAS Press, 23-25 July 2008, Heraklion, Crete, Greece, pp 316-320
12.	Nor Badrul Anuar, Lai Ngan Kuen, Omar Zakaria, Abdullah Gani and Ainuddin Wahid Abdul Wahab, (2008)"Usability and Performance of Secure Mobile Messaging using Public Key Infrastructure", 7th WSEAS International Conference on Data Networks, Communications & Computers (DNCOCO '08), WSEAS Press, Bucharest, Romania, pp 29-42
13.	Nor Badrul Anuar, Lai Ngan Kuen, Omar Zakaria, Abdullah Gani (2008),"Secure Mobile Messaging using Public Key Infrastructure: m-PKI" 12th WSEAS International Conference on Computers, WSEAS Press, 23-25 July 2008, Heraklion, Crete, Greece, pp 76-81
14.	Abdullah Gani,Omar Zakaria, Nor Badrul Anuar, Zolkepli Buang, (2007),"Integrating Agent Technology in Teaching and Learning of Computer Security Course in Tertiary Level", International Conference on Engineering and ICT 2007, Equatorial Hotel, Melaka, Malaysia 27-28 Nov 2007, pp 505-511.

15.	Mustaffa Kamal Mohd Nor, Omar Zakaria, Abdul Razak Hamdan & Aziz Deraman (2007)," Using Success Factors for Evaluating IT Readiness Levels in Implementing IT for Malaysian's SMEs", International Conference on Electrical Engineering & Informatics (ICEEI), Bandung, Indonesia 17-19 June 2007, pp 360-363
16.	Mustaffa Kamal Mohd Nor, Omar Zakaria & Chang Sok Kin, (2007),"The development of critical undergraduate program selection system (CUPSS) for admission to Malaysian Public Universitie" , International Conference on Electrical Engineering and Informatics (ICEEI)Bandung, Indonesia, 17-19 June 2007, pp 649-653
17.	Abdullah Gani, Sapiyan Baba, Roziati Zainuddin, Omar Zakaria, (2007), "Proactive User Agent Towards Self-Regulated Network Resource Control", International Conference on Electrical Engineering and Informatics, Bandung, Indonesia. 17-19 June 2007
18.	Omar Zakaria, Abdullah Gani, Mustaffa Mohd Nor, Nor Badrul Jumaat,(2007),"Reengineering Information Security Culture Through Management Perspective", International Conference on Electrical Engineering and Informatics, Bandung, Indonesia. 17-19 June 2007, pp638-641
19.	Abdullah Gani, M. Sapiyan Baba, R. Zainuddin, Omar Zakaria,(2006), "Online Skill-based Assessment of Network Technology Course Using Simulation Technique", The 19th Educational Technology Convention, Langkawi, Malaysia. 9-11 September 2006
20.	Abdullah Gani, M. Sapiyan Baba, R. Zainuddin, Omar Zakaria (2006),"Network Resource Control", International Conference on Science and Technology (ICSTIE2006): Applications in Industry and Education, Penang, Malaysia. 8-9 December 2006
21.	Abdullah Gani, Omar Zakaria, Sapiyan Baba, Roziati Zainuddin (2006),"Towards Internalisation Of Information Security Culture Using User Manager Agent System", International Conference on ICT For The Muslim World ICT4M 2006, Kuala Lumpur,Malaysia. 21-23 November 2006
22.	Omar Zakaria, Abdullah Ghani, Sapiyan Baba,(2006) "Integrating Information Security Course into Undergraduate Programmes: A UM's Experience", International Conference on Science and Technology (ICSTIE2006): Applications in Industry and Education, Penang, Malaysia. 8-9 December 2006
23.	Omar Zakaria (2005),"Information Security Culture and Leadership", 4th European Conference on Information Warfare, pp415-420
24.	Omar Zakaria (2004), "Understanding Challenges of Information Security Culture: A Methodology Issue", 2nd Australian Information Security Management Conference (INFOSEC04), pp 83-93
25.	Omar Zakaria (2004), "Information Security Culture: A Taxonomy of Positive Security Behaviour", . The 3rd European Conference on Information Warfare and Security, 2004, pp 379-386
26.	Omar Zakaria, Pita Jarupunphol and Abdullah Gani (2003), "Paradigm Mapping for Information Security Culture Approach", The 4th Australian Information Warfare and IT Security Conference, Adelaide, Australia, 20-21 November 2003, pp417-426
27.	Omar Zakaria and Abdullah Gani (2003), "A Conceptual Checklist of Information Security Culture", Proceeding of the 2nd European Conference on Information Warfare and Security. Reading, England, 30 June -1 July 2003, pp365-371
28.	Omar Zakaria and Pita Jarupunphol (2003), "Understanding The Role of Information Security Culture", Proceeding of International Conference on E-Society, 3-6 June 2003, pp 1013-1014
29.	Mustafa Kamal Mohd Nor, N. L. Yong, F. Othman and Omar Zakaria (2002), In Eds J. Kassim et. al "Web-Based New Renumeration Scheme (SSB) Evaluation System", Prosising Seminar Kebangsaan Sains, Teknologi dan Sains Sosial, Kuantan, Pahang, Malaysia, 2 May 2002, pp 122-129
30.	Omar Zakaria (2002), "Information Security Acculturation Challenges in Malaysia: An Introduction", Proceeding od The European Conference on Information Warfare and Security, Uxbridge, England, 8-9 July 2002, pp187-190
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32.	Omar Zakaria, Khairul Nidzar Mohd Nasir, Noorzaily Mohd Noor (2001), "Linux-Based Thin Client System Pilot test at FCSIT-UM", International Conference of Information Technology and Multimedia,

	UNITEN, Selangor, Malaysia, Vol. 2, 13-15 August 2001, pp 59-63
33.	Omar Zakaria and Hannyzura Pal (2000), "Perancangan Penyediaan Istilah Teknologi Maklumat Bagi Tahun 1998-2002", Seminar Antarabangsa Bahasa Melayu Alaf Baru, UITM, Shah Alam, Selangor, Malaysia, 25-27/9/2000.
34.	Omar Zakaria (1999), "Kaedah Memartabatkan Bahasa Melayu Dalam Teknologi Maklumat", Bahasa Melayu in Cyber Era Seminar, Hotel Istana, Kuala Lumpur, September 1999
35.	Omar Zakaria, Norijah Hj Husin and Siti Aishah Hashim Ali (1998), "TRIGMET: An Interactive Multimedia Learning Package for Trigonometry", International Conference on Information Technology and Multimedia ICIMU), UNITEN, Selangor, Malaysia, 29/9/1998-1/10/1998. pp PSA10-1-SA10-6
36.	Siti Aishah Hashim Ali, Norijah Hj Husin and Omar Zakaria (1998), "Pembentukan Satu Sistem Pembelajaran Berinteraktif", Seminar Sehari Pembelajaran Matematik: Agenda Semasa, Jabatan Matematik, UKM, Malaysia, 26/10/1998

Translations

No	Publications
1.	Abdullah Gani, Omar Zakaria, Rodina Ahmad, Rohana Mahmud, Salimah Mokhtar, Sameem Abdul Kareem, Zarinah Mohd Kasirun (1997), "Microsoft Office 97 Professional: Step by Step (Langkah demi Langkah Microsoft Office 97 Profesional)", Microsoft Press

Mass Media(Newspaper,radio,tv,popular Magazine)

No	Publications
1.	Perspektif Kita Programme: Private Privacy, Astro Awani 26/01/2008 9pm-10pm
2.	Era IT Programme at TV1 11.30pm 05/07/2001 on Bank Istilah IT (IT Terminology Bank)- Part 1
3.	Era IT Programme at TV1 11.30pm 02/08/2001 on Bank Istilah IT (IT Terminology Bank)- Part 2
4.	Pertelagahan Bantutkan Pewujudan Bank Istilah (Debating reluctants the existing of terminology bank). Utusan Malaysia Newspaper 08/05/2001.

List Of Written Works That Have Not Been Published

No	Publications
1.	Devising a Model to Examine Information Security Culture (Paper with G. Harindranath) - Still under MISQ Journal review
2.	INFORMATION SECURITY CULTURE: A CONCEPTUAL CHECKLIST APPROACH (Paper with Abdullah Gani and G. Harindranath)

Non-Refereed Journals

No	Publications
1.	Omar Zakaria,(2006)"Budaya Perancangan Pemulihan Bencana" (Disaster Recovery Planning Culture), Jurnal Rampak Serantau, Brunei, Bil 13: 2006, pp350-359
2.	Omar Zakaria (2003), "Program Budaya Keselamatan Maklumat", (Information Security Culture Programme), Jurnal Rampak Serantau (MABBIM), DBP Brunei. Vol.10 Mac 2003, pp 199-206
3.	Omar Zakaria (2000), "Keselamatan Komputer: Suatu Pengenalan" (Computer Security: An Introduction), Vol. 7, 10 Mac 2000, Jurnal Rampak Serantau, pp162-177

Others

No	Publications
1.	Omar Zakaria, (2007), "Investigating Information Security Culture Challenges in A Public Sector Organisation: A Malaysian Case" Unpublished PhD Thesis, University of London, p 200, 30th June 2007
2.	Omar Zakaria (Subject Matter Expert - SME)(2007), "Glossary of Information Technology - (Abbreviations & Acronyms) - English", Dewan Bahasa & Pustaka, Kuala Lumpur, 2007. IBSN: 978-983-62-6562-3
3.	Omar Zakaria (Subject Matter Expert - SME) (2003)"Glossary of Information Technology - Volume 3: English - Description - Malay & Malay - English", Dewan Bahasa & Pustaka, Kuala Lumpur, 2003. IBSN: 983-62-8093-6
4.	Omar Zakaria (2001), "Kepentingan Kamus Tabu dalam Pengistilahan Bahasa Melayu: Pandangan Pakar Bidang Teknologi Maklumat", Seminar Sehari Jabatan Bahasa Melayu dan Terjemahan, February 2001
5.	Omar Zakaria (2001), "Penyelenggaraan Bank Istilah Teknologi Maklumat", Seminar Cabaran Penulisan Sains dan Teknologi Dalam Alaf Baru, Selangor, Malaysia, April 2001
6.	Omar Zakaria and Azura Amid (2001), "Internet Content Management: An Approach to Change Muslim Negative Attitudes Towards Internet", (Abstract only). International Conference on Science & Religion: Perspectives of Islamic Civilisation, 4-5 September 2001
7.	Omar Zakaria and Osman Abdul Aziz (2001), "A Proposed Standard for ICT Security Management in Malaysia", (Abstract only), Malaysia Science and Technology Congress (MSTC 2001), 8-10 November 2001
8.	Mashkuri Yaacob, Ibrahim Abu Bakar, Zaidi Razak and Omar Zakaria (2000), "ANN Design Chip for Medical Image Processing", Design Automation Conference, Los Angeles, USA, June 2000
9.	Omar Zakaria (Subject Matter Expert - SME) (2000), "Glossary of Information Technology - Volume 2: English - Description - Malay & Malay - English", Publisher: Dewan Bahasa & Pustaka, Kuala Lumpur, 2003. IBSN: 983-62-6561-9
10.	Omar Zakaria, Sharifuddin Md Zain and Miss Laiha Mat Kiah (1999), "Y2K Contingency Plan in UM", Holiday Villa, Subang, Selangor, Malaysia, 22 November 1999 NOVEMBER 1999
11.	Omar Zakaria (1999), "Fundamentals of Internet and Web Publishing", UNITAR teaching module
12.	Omar Zakaria (1996), "Disaster Recovery Planning in Bank: A Malaysian Scenario", Unpublished Master Dissertation, Royal Holloway, University of London, pp 110

SECTION 9 : INTELLECTUAL PROPERTY RIGHTS

No	Product Name	Type	Reference No	Level	Year
No Record.					

SECTION 10 : PRESENTATIONS

No	Event	Title of Paper Presented	Role	Start Date	End Date	Organiser	Level
1.	Symposium on Online Learning	Issues on Online Learning	Facilitator	05-Sep-01	05-Sep-01		National
2.	15th Congress of MABBIM Expert - Area IT	IT Glossary	Malaysian Delegate	10-Sep-01	14-Sep-01	Pusat Bahasa, Departemen Pendidikan Nasional Republik Indonesia	Others
3.	Computer Security	Y2K Contingency	Invited	22-	22-		National

	Management Seminar	Plan in UM	Speaker	Nov-99	Nov-99		
4.	Design Automation Conference	FRGA	Exhibitor	05-Jun-00	09-Jun-00		International
5.	International Seminar on 2000 New Millenium of Malay Language (Seminar Antarabangsa Bahasa Melayu Alaf Baru 2000)	Planning for Preparation of IT Glossary for 1998-2002 (Perancangan Penyediaan Istilah Teknologi Maklumat tahun 1998-2002)	Presenter	25-Sep-00	27-Sep-00	UiTM	International
6.	International Conference on IT and Multimedia (ICIMU 2001)	Linux-based Thin Client Pilot System at FCSIT, UM	Presenter	13-May-01	15-May-01	UNITEN	International
7.	International Conference on Technology Education : Optimal Use of Resources	A Proposed Implementation of Linux-Based Thin Client System on Cyber Cafe	Presenter	04-Oct-01	04-Oct-01		International
8.	European Conference on Information Warfare & Security	Information Security Acculturation in Malaysia: An Introduction	Presenter	08-Jul-02	09-Jul-02		International
9.	International Conference on E-Society	Understanding the Role of Information Security Culture	Presenter	03-Jun-03	06-Jun-03		International
10.	4th Australian Information Warfare & IT Security	Paradigm Mapping for Information Security Culture Approach	Presenter	20-Nov-03	21-Nov-03	University of South Australia	International
11.	The 3rd European Conference on Information Warfare & Security	Information Security Culture: A Taxonomy of Positive Security Behaviour	Presenter	28-Jun-04	29-Jun-04		International
12.	2nd European Conference on Information Warfare & Security	A Conceptual Checklist of Information Security Culture	Presenter	30-Jun-03	01-Jul-03		International
13.	The 2nd Australian Security Management Conference	Understanding Challenges of Information Security Culture: A Methodological Issue	Presenter	25-Nov-04	26-Nov-04	Edith Cowan University	International
14.	4th European Conference on Information Warfare & Security	Information Security Culture & Leadership	Presenter	11-Jul-05	12-Jul-05		International
15.	IFIP TC 11 WG 11.1 & WG 11.5 Joint Working	Employee Security Perception in	Presenter	01-Dec-	02-Dec-		International

	Conference on Security Management, Integrity and Internal Control in Information Systems	Cultivating Information Security Culture		05	05		
16.	International Information Security Conference (SEC 2006)	Internalisation of Information Security Culture Amongst Employees Through Basic Security Knowledge	Presenter	22-May-06	24-May-06		International
17.	Info Tech 1998	Issues on IT Implementation	Rapporteur	14-Apr-98	14-Apr-98		National
18.	International Conference on IT & Multimedia (ICIMU 98)	TRIGMET: An Interactive Multimedia Learning Package for Trigonometry	Presenter	28-Sep-98	30-Sep-98	UNITEN	International
19.	20th Congress on MABBIM Expert - Area IT	IT Glossary	Malaysian Delegate	10-Sep-06	15-Sep-06		Others
20.	ITEX 2007	Graphical Password Resistant Shoulder Surfing	Exhibitor	18-May-07	20-May-07	MINDS	International
21.	ITEX 2008	Hacker Proof Graphical Password Using Digital Watermarks	Exhibitor	09-May-08	11-May-08	MINDS	International
22.	12th WSEAS International Conference on Computers	Secure Mobile Messaging using Public Key Infrastructure	Presenter	23-Jul-08	25-Jul-08	World Scientific & Engineering Academy and Society (WSEAS)	International
23.	The 7th European Conference on Information Warfare and Security	SANAsms: Secure Short Messaging System for Secure GSM Mobile Communication	Presenter	01-Sep-08			International
24.	7th WSEAS International Conference on DATA NETWORKS, COMMUNICATIONS, COMPUTERS (DNCOCO '08)	Usability and Performance of Secure Mobile Messaging using Public Key Infrastructure	Presenter	01-Nov-08			International
25.	12th WSEAS International Conference on Communications	Mix-Bandwidth Data Path Design for 5G Real Wireless World	Presenter	01-Nov-08			International
26.	International Conference on Communication Software and Networks	Multi-Network Data Path for 5G Mobile Multimedia	Presenter	01-Jan-08			International

	(ICCSN 2009)						
27.	International Conference on Communication Software and Networks (ICCSN 2009)	The Future of Mobile Wireless Communication Networks	Presenter	01-Jan-09			International
28.	The 2nd IEEE International Conference on Information Management and Engineering (ICIME)	Improving graphical password resistant to shoulder surfing	Presenter	01-Feb-10			International
29.	World Congress on Engineering 2009	Throughput Optimization of Unplanned Wireless Mesh Networks Deployment Using Partitioning Hierarchical Cluster (PHC)	Presenter	01-Mar-09			International
30.	ISO/IEC JTC 1/SC 27 Meeting	Technical contribution	Participant	19-Apr-10	20-Apr-10	SIRIM and Standards Malaysia	International
31.	Asia Pacific Defence & Security Technology Conference (DSTC)	Design a New Selective Video Encryption Using Computation Between H.264/AVC and AES Encryption Algorithm	Presenter	01-May-09			International
32.	International Conference on Computer Technology and Development	Devising a Biological Model to Detect Polymorphic Computer Viruses Artificial Immune System (AIM): Review	Presenter	01-May-09			International

SECTION 11 : EVALUATIONS ACTIVITIES

No	Title of Book/Thesis/Project	Activity
1.	MPLS VPN simulation using MP-iBGP - Ang Tan Fong	Internal Examiner (Master Dissertation)
2.	Pencerobohan Maklumat Melalui Kejuruteraan Sosial (Information Intrusion Through Social Engineering) - National Conference on Information Retrieval and Knowledge Management (CAMP 08) 18/03/2008 - Reviewer	Article
3.	Unknown Malicious Code Detection: Practical Issues. European Conference on Information Warfare & Security 2008 - Reviewer	Article
4.	Master Dissertation - Lam Wai Leong (WGA000025) (22/03/2006)	Internal Examiner (Master Dissertation)
5.	Dynamic Data Replication Strategy in Data Grid - Ng Tiong Sheng (WGA070089): 25/06/2008	Internal Examiner (Master)

		Dissertation)
6.	Securing Cover-file of Hidden Data Using Statistical Technique and AES Encryption Algorithm - Aos A. Z. Ansaef (WGA060077): 22/10/2008	Internal Examiner (Master Dissertation)
7.	Master Dissertation: Addressing the Digital Divide through the Implementation of a Wireless School Network - Creswell Du Preez, Master in Business Information Systems, Nelson Mandela Metropolitan University, Port Elizabeth, SOUTH AFRICA - 16/01/2009	Master Dissertation
8.	Enhancement of the Size of Hidden Data and the Quality of Image Using LSB Algorithm - Bilal Bahaa Zaidan (WGA060079): 23/01/2009	Internal Examiner (Master Dissertation)
9.	Pengenalpastian Amaran Palsu Menggunakan Perlombongan Data dan Pepohon Keputusan (Identifying False Alarm Using Data Mining and Decision Tree) - Hasimi Sallehudin (WGA060006): 07/04/2008	Internal Examiner (Master Dissertation)
10.	Master Dissertation (By research). Usability and security model for graphical password scheme as knowledge based authentication technique. Muhammad Daniel Hafiz bin Abdullah (UTM) - 13/01/2010	Master Dissertation
11.	Key management for secure group communication in a wireless environment - Babak Daghighi (WGA060088) 22/01/2010	Master Dissertation
12.	Implementation of a Wifi-based Location Awareness System for Multi-Storey Building - Tan Kit Huang (WGA040035) Master Dissertation 23/04/2010	Thesis
13.	A New Algorithm for Graphical User Authentication Based on Rotation and Resizing: Arash Habibi Lashkari - WGA070109 (Master Dissertation) 25/02/2010	Thesis
14.	Master Disertation: Dynamic Network Traffic Controlling System Using Normal Prediction Interval - Akash Rosen WGA040018 25/6/2010	Master Disertation
15.	Master Disertation: Intelligent Fault Management Using Cost Sensitive Fault Remedial Approach - Sunthari Solaimalai WGA060020 25/6/2010	Master Disertation

SECTION 12 : PROFESSIONAL AFFILIATION/MEMBERSHIP

No	Organisation	Role	Start Date	End Date	Level
1.	International Federation For Information Processing (Ifip)	Member	01/04/2005		International
2.	Information Systems Security Association (Issa)	Associate Member			International
3.	Certified Openoffice.Org And Linux Desktop (Open Source Competency Centre)	Teaching And Training Linkage	03/02/2010		Local
4.		Teaching And Training Linkage			Local

SECTION 13 : AWARDS AND RECOGNITIONS

No	Name of Award	Awarding Institution	Year Awarded	Level
1.	Certificate of Appreciation as Learning Lab Facilitator at Symposium on Online Learning, PWTC, KL	UNIMAS, MIMOS & Strategic Paradigm	2001	National
2.	Certificate of Appreciation as Participant in	Departemen Pendidikan	2001	-Regional

	Sidang ke-15 Pakar Majelis Bahasa Brunei-Indonesia-Malaysia (MABBIM) at Denpasar, Bali, Indonesia	Nasional Republik Indonesia		
3.	Certificate of Appreciation for Malay Language Enrichment - Area ICT (Warkah Penghargaan Pengembangan Bahasa Melayu - Bidang ICT)	Minister of Education, Malaysia	2000	National
4.	Certified OpenOffice.org & Linux Desktop (COOOL)	Open Source Competency Centre, Cyberjaya, Malaysia	2010	National
5.	Contribution for Malaysian Standard Development - MS ISO/IEC 270005:2008 Information Technology - Security Techniques - Information Security Risk Management (ISO/IEC 270005:2008, IDT)	SIRIM Berhad	2010	National
6.	EKSPLO PENYELIDIKAN, REKACIPTA & INOVASI UM 2009 for Securing Multimedia Messaging Service (MMS) Using Public Key Infrastructure & Hybrid Encryption (BRONZE MEDAL)	University of Malaya	2009	University
7.	EKSPLO PENYELIDIKAN, REKACIPTA & INOVASI UM 2009 for m-PKI: Secure SMS Solution Using PKI (SILVER MEDAL)	University of Malaya	2009	University
8.	Excellence of Service Award 1999	University of Malaya	2000	University
9.	ISO/IEC 27006 Training Course Certificate of Attendance	Information Management Systems Promotion Centre, Japan Information Processing Development Corporation	2009	University
10.	International Invention, Innovation & Technology Exhibition 2007 (ITEX 2007)- Graphical Password Resistant Shoulder Surfing : BRONZE MEDAL	MINDS	2007	International
11.	International Invention, Innovation & Technology Exhibition 2008 (ITEX 2008) - Graphical Password with Digital Watermarks : SILVER MEDAL	MINDS	2008	International
12.	International Invention, Innovation & Technology Exhibition 2008 (ITEX 2008) - Secure SMS : GOLD MEDAL	MINDS	2008	International

SECTION 14 : ADMINISTRATIVE DUTIES

No	Role	Level(Department, Faculty)	Started Date	Ended Date
1.	Quality Manager	Faculty Of Computer Science And Information Technology Dean's Office, Faculty Of Computer Science & Information Technology	01-Nov-07	
2.	Panel Head Of Final Year Project Evaluation	Department Of Computer System & Technology, Faculty Of Computer Science & Information Technology	01-Apr-07	30-Apr-08
3.	Coordinator Of Islamic Studies With Applied Science	Faculty Of Computer Science And Information Technology Dean's Office, Faculty Of Computer Science & Information Technology	01-Nov-06	
4.	Assistant Secretary Of	University Malaya	01-Jan-06	31-Dec-

	Academic Association Of University Of Malaya (Pkaum)			08
5.	Coordinator Of Distance Learning	Faculty Of Computer Science And Information Technology Dean's Office, Faculty Of Computer Science & Information Technology	01-Jul-99	30-Jun-01
6.	Coordinator Of Faculty Prospectus (Buku Panduan)	Faculty Of Computer Science And Information Technology Dean's Office, Faculty Of Computer Science & Information Technology	01-Jul-99	30-Jun-01
7.	Coordinator Of Industrial Training	Faculty Of Computer Science And Information Technology Dean's Office, Faculty Of Computer Science & Information Technology	01-Jul-97	20-Jun-99

SECTION 15 : CONTRIBUTION TO SOCIETY

No	Contribution To Society	Level	Start Date	End Date
1.	Secretary of Astana Gemilang Residents Association	Community	01-Aug-07	03-Mar-09
2.	Talk on "Motivasi Kecemerlangan" at Sek Men Keb (A) Shraifah Rodziah, Teluk Mas, Melaka	Local	18-Aug-01	18-Aug-01
3.	Glossary of IT (cooperation with DBP)	Country	05-Jul-98	
4.	Electronic Government Course fo Civil Servant (cooperation with INTAN & UPUM)	Country	27-Sep-97	21-Apr-98

SECTION 16 : CAREER HISTORY

No	Employment	Employment Field	Organisation	Start Date	End Date
1.	Analyst Programmer	Berkaitan Komputer (Is, Mis, Dp)	Maybank	01-OCT-94	31-JAN-95
2.	Associate Professor	Pendidikan/Latihan	Universiti Pertahanan Nasional Malaysia (Upnm)	01-JUL-10	
3.	Part Time Tutor	Pendidikan/Latihan	University Of Malaya	01-JUL-94	30-SEP-94
4.	Slab Tutor	Pendidikan/Latihan	University Of Malaya	03-FEB-95	31-OCT-96
5.	Lecturer	Pendidikan/Latihan	University Of Malaya	02-NOV-96	26-APR-06
6.	Senior Lecturer	Pendidikan/Latihan	University Of Malaya	27-APR-06	30-JUN-10
7.	Temporary Clerk	Pentadbiran Am/Penyeliaan	Projek Lebuhraya Utara Selatan Bhd (Plus)	01-APR-94	30-JUN-94

SECTION 17 : EXPERT LINKAGES

No	Linkages Description	Organisation	Year of Involvement	Duration	Level
1.	IT Glossary	Dewan Bahasa & Pustaka	1998	12	National
2.	Information Security	SIRIM	2007	12	National

	Standards				
3.	Reviewer	Organiser of European Conference on Information Warfare & Security	2005	2	International
4.	Committee	IFIP TC 11 WG 11.1: Information Security Management	2005	36	International

SECTION 18 : TECHNICAL CONTRIBUTIONS

No	Activity	Organisation	Role	From	Until	Level
1.	Information Security Standards	SIRIM	Committee Member	2007	Present	National

SECTION 19 : COMMERCIALISATIONS

No	Company Name	Product Name	Commercial Type	Investment Amount (RM)	Project Research Code
No Record.					