



**CURRICULUM VITAE**



<b>I. PERSONAL PARTICULARS</b>			
<b>Name</b>	HASSAN BIN MOHAMED		
<b>Current Position Faculty / Department</b>	<ol style="list-style-type: none"> <li>Senior Lecturer in The Department of Computer Science, Faculty of Defence Science and Technology, National Defence University of Malaysia (NDUM)</li> <li>Director of Cyber Security and Digital Industrial Revolution Centre, NDUM</li> </ol>		
<b>II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS</b>			
(Please list all academic qualifications, from your first degree, in chronological order)			
<b>Year</b>	<b>Degree</b>	<b>Discipline</b>	<b>University</b>
2015	PhD	Computer Science – <i>Natural Language Processing</i>	Universiti Kebangsaan Malaysia (UKM) – <i>National University of Malaysia</i>
2000	M.Sc	Information Technology (Computer Science)	UKM
1989	B.Sc (Hons)	Computer Science	UKM
<b>III. TITLES OF POSTGRADUATE THESES WRITTEN (At MSc/PhD Level)</b>			
<b>No.</b>	<b>TITLES OF POSTGRADUATE THESES</b>		
1.	Phd - Unsupervised Hidden Markov Model for Malay Part of Speech Tagging		
2.	MSc – Rule-based Bone's Osteon Recognition		

<b>IV. WORK EXPERIENCE</b> (Please list your relevant experience in chronological order)			
<b>Year</b>	<b>Position</b>	<b>Organisation</b>	<b>Start and End Date</b>
2023	Director of Cyber Security and Digital Industrial Revolution Centre	National Defence University of Malaysia (NDUM)	Jan 2023 - present
2016	Senior Lecturer	National Defence University of Malaysia (NDUM)	15 Feb 2016 - present
2013	Graduate Research Assistant	UKM	August 2011 – March 2013
2013	MyBrain15 Scholarship Holder	Ministry of Higher Education of Malaysia	Sept 2011 – Feb 2013
2011	Senior Lecturer	Universiti Tenaga Nasional (UNITEN)	2010 – 2011
2010	Lecturer	Universiti Selangor (UNISEL) formerly known as Universiti Industri Selangor ( <i>Industrial University of Selangor</i> )	2008 – 2010
2008	Senior Researcher	MIMOS Berhad	1998 – 2008
1998	Researcher	MIMOS Berhad	1992 – 1998
1991	Researcher	KPM-MIMOS	1989 – 1991

## 1.0 TEACHING AND SUPERVISION

### 1.1 Postgraduate Courses

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

<b>No.</b>	<b>Course Title (Taught in NDUM)</b>	<b>Semester</b>	<b>Year</b>
1.	Big Data Analytics	2	2023

## 1.2 First Degree Courses

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

No.	Course Title (Taught in NDUM)	Semester	Year
1.	Computational Intelligence	3	Academic session 2017/18 Academic session 2016/17
2.	Knowledge Based Systems	2	Academic session 2018/19 Academic session 2017/18 Academic session 2016/17 Academic session 2015/16
		3	Academic session 2022/23 Academic session 2021/22 Academic session 2019/20
3.	Data Structures	1	Academic session 2017/18 Academic session 2016/17
4.	Knowledge Acquisition Methods	1	Academic session 2022/23 Academic session 2021/22 Academic session 2019/20 Academic session 2016/17
5.	File System Forensics	2	Academic session 2022/23 Academic session 2021/22 Academic session 2020/21 Academic session 2019/20
6.	Database Systems	2	Academic session 2019/20
7.	Digital Forensic	2	Academic session 2021/22

No.	Course Title (Taught in KLIUC as a part time lecturer)	Semester	Year
1.	Software Evolution and Maintenance	1	Academic session 2011/12
2.			

No.	Course Title (Taught in UNITEN)	Semester	Year
1.	Principles of programming (C language)	1	Academic session 2010/11
2.	Advanced programming (C language)	2	Academic session 2010/11

No.	Course Title (Taught in UNISEL)	Semester	Year
1.	Artificial Intelligence	1, 2	Academic session 2009/10 Academic session 2008/09
2.	Automata Theory and Computation	2	Academic session 2009/10
3.	Knowledge Engineering and Expert System	2	Academic session 2009/10
4.	Concept of Programming	1	Academic session 2008/09
5.	Computer Design & Architecture	1, 2	Academic session 2008/09

### 1.3 Diploma Courses

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

No.	Course Title	Semester	Year
1.	Literasi Komputer	2	Academic session 2019/20
2.	Management Information Systems	5	Academic session 2021/22

No.	Course Title (Taught in UNISEL)	Semester	Year
2.	Internet Basics	3	Academic session 2008/09

### 1.4 Pre-Degree Courses

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

No.	Course Title	Semester	Year

## 1.5 PhD Supervision

(Please list in chronological order)

No.	Name of Student	Project Title	Date of Registration	Role (Main / Co-Supervision)	Status • Completed • Submitted • In Progress	University
1.	Lt. Kol Mahendra a/l Sekaran Nair	Spare Parts Management Model for The Maintenance of Malaysian Capital Assets		Co-Supervision	Completed	NDUM
2.	Goh Thing Thing	Developing Assessment System for Outcome Based Education (OBE) Taxonomy using Natural Language Processing Technique		Co-Supervision	In Progress	NDUM
3.	Dato' Tay Kean Boon	Unmanned Aerial Vehicle (UAV) Data Analytics and Regulated framework Utilizing Unmanned Air Traffic Management System (UTMS) for Safety Governance in Malaysia		Main supervisor	In Progress	NDUM

### 1.6 PhD External/Internal Examination

(Please list in chronological order)

No.	Name of Student	Project Title	External / Internal	Date of Viva	University

### 1.7 MSc (by Research)

(Please list in chronological order)

No.	Name of Student	Project Title	Date of Registration	Role (Main / Co-Supervision)	Status <ul style="list-style-type: none"><li>• Completed</li><li>• Submitted</li><li>• In Progress</li></ul>	University
1.	Muhammad Muhtadi bin Mohamad Khazani	Semantic-based Knowledge Representation of Al-Quran for a Question Answering System		Main supervisor	Completed	UPNM
2.	Al Hafiz bin Salehin	Forecasting the Impact of MCO on Covid19 Cases by using Machine Learning Techniques		Main supervisor	Withdrawn	UPNM

### 1.8 MSc External/Internal Examination

(Please list in chronological order)

No.	Name of Student	Project Title	External / Internal	Date of Viva	University
1.	Kapt Muhammad Zakwan bin Muhamad Rodzi	Particle Swarm Optimization (PSO) Approach for Feature Selection in Sentiment Analysis for Propaganda Issues	Internal	May 2022	UPNM
2.	Lt Kdr Tan Sze Lin TLDM	Implementation Model of Network Security for Royal Malaysian Navy Network	External	18 February 2121	Warwick

### 1.9 Supervision (Postgraduate Research Project or Final Year Research Project)

(Please list in chronological order)

No.	Name of Student	Project Title	Date of Registration	Role (Main/Co-Supervision)	Status • Completed • Submitted • In Progress
1.	Lt Col RMAF Duasa Bin Ab Hamid Rmaf	Cloud Computing Security: Effectiveness, Awareness and Security Implications from the MAF Cyber Security Management Perspective		Co-supervisor	Completed
2.	Mej Khartina July	Cybersecurity Awareness and Its Education in Malaysian Armed Forces: Challenges for National Security		Main supervisor	Withdrawn
3.	Lt Col Radziah Mohamad	Social Media Security: Analysis of Risks, Cyber Threats And Mitigation in Malaysian Armed Forces		Main supervisor	Completed
4.	Mej Mohd Azmi Abu Bakar	Digital Data Leakage Through Computerized		Main supervisor	Completed

		System Among Malaysian Armed Forces Personnel: Effects and Prevention Strategy			
5.	Saifouridzal Jamil	Security Operation Centre Integration for Cyber Security Incident Management Using Open-Source Ticket Request System (OTRS)		Co-supervisor	In Progress

## 2.0 RESEARCH, PUBLICATION AND PRESENTATION

### 2.1 Research Projects

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

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
1.	Semantic-Based Malay Grammar for Social Network Threat Analysis	PI: <b>Hassan Mohamed</b> Members 1. Mohd Fahmi bin Mohamad Amran, 2. Zuraini binti Zainol, 3. Omar bin Zakaria	UPNM/2016/GP JP/5/ICT/5 2016 – 2018	RM 40,000.00	Completed
2.	Development of Knowledge-based Software with Enhanced Situational Awareness Analysis for Infantry Personnel	PI: Omar Zakaria Members: 1. Mohd Nazri Bin Isnail, 2. Mohd Afizi Bin Mohd Shukran, 3. Ananthan a/Subramaniam,	NRGS/ <b>2013</b> /UPNM/ PK/P3  (Joint <b>2016</b> )	RM 981,940.00	Completed



No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
		4. Victor Feizal Abd Shatar Knight, 5. Zuraini Binti Zainol, 6. Syahaniem Binti Marzhuki, 7. Mohd Rizal Bin Mohd Isa, 8. Mohd Fahmi Bin Mohamad Amran, <b>9. Hassan Bin Mohamed</b>			
3.	A Pixel Value Password Scheme on Mobile Devices for Access Control Applications	PI: Mohd Fahmi bin Mohamad Amran Member: 1. Mohd Afizi bin Mohd Shukran 2. Mohd Nazri bin Ismail 3. Omar bin Zakaria 4. Nurhafizah Moziyana binti Mohd Yusop 5. Mohd Rizal bin Mohd Isa 6. Nor Azliana Akmal Jamaludin <b>7. Hassan bin Mohamed</b>	UPNM/2016/GP JP/5/ICT/6 2016 – 2018	RM45,000.00	Completed
4.	Situational Awareness on Current Social Network Issues for Security Personnel Using Data Mining Techniques	PI: Zuraini binti Zainol Member: 1. <b>Hassan bin Mohamed,</b> 2. Mohd Hazali bin Mohamed Halip, Omar bin Zakaria	UPNM/2016/GP JP/5/ICT/4 2016-2018	RM45,000.00	Completed

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
5.	Prototyping Digital Tongue Diagnosrs System on Rasperry-Pi for Smart Military Healthcare System	PI: Nur Diyana binti Kamarudin Member: 1. Zuraini binti Zainol, 2. Afiqah binti Mohammad Azahari, 3. Arniyati binti Ahmad, 4. <b>Hassan bin Mohamed,</b> 5. Mohd Fahrni bin Mohamad Amran	UPNM/2018/GP JP/2/TK/1 2018-2020	RM20,000.00	Completed
6.	Pembangunan Sistem Pemilihan Pelajar (Bakal Pegawai Kadet) ke Program Asasi UPNM	PI: Zuraini binti Zainol Member: 1. Syahnneim binti Marzukhi, 2. Nur Fatimah binti Awang, 3. <b>Hassan bin Mohamed,</b> 4. Siti Adibah binti Zainal	SF0075–UPNM/2019/SF/ICT/5 2019-2020	-	Completed
7.	Arabic-English Semantic Graph-Based Knowledge Representation for Al-Qur'an and Understanding Fundamentals of Extremism	PI: <b>Hassan Mohamed</b> Members: 1. Tengku Mohd bin Tengku Sembok 2. Nurhafizah Moziyana Binti Mohd Yusop 3. Sharyar Wani 4. Akram M Z M Khedher 5. Zahri Bin Yunos	FRGS/1/2019/IC T02/UPNM/01/1	RM107,200.00	In progress
8.	Makers@UPNM	PI: <b>Hassan Mohamed</b> Members: 1. Zuraini bin Zainol 2. Syahaneim binti Marzukhi	K0003-UPNM/2019/KT P/IUMU/1 2019-2020	RM65,000.00	Completed

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
		3. Nur Aisyah binti Abdul Fataf			
9.	LOGSEMCOG - An automated system for knowledge base construction	PI: <b>Hassan Mohamed</b> Member: 1. Tengku Mohd bin Tengku Sembok 2. Mohd Hazali Mohamed 3. Halip 4. Sharyar Wani	PRGS/1/2018/IC T02/UPNM/01/1	RM53,000.00	Completed
10.	A New Malay Computational Grammar Formalism based-on Enhanced Pola Grammar with Syntactic and Semantic Feature for Digital Commerce	PI: <b>Hassan Bin Mohamed</b> Members: 1. Prof. Madya Mohd Hazali bin Mohamed Halip 2. Dr. Nur Aisyah binti Abdul Fataf 3. Dr. Nur Diyana binti Kamarudin 4. Dr. Syarifah Bahiyah Rahayu binti Syed Mansoor	UPNM/2022/GP JP/ICT/1	RM20,000.00	In progress

## 2.2 Publications

### 2.2.1 Academic Journal

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

No.	Authors, year, title, publisher/journal, volume and number of pages (Please bold your name)	Type of Journal • ISI • SCOPUS • Peer-Reviewed
1.	Amir Afifuddin Ab Zayin, Zuraini Zainola, Puteri Nor Ellyza Nohuddinb, <b>Hassan Mohamed</b> . 2023. Peramalan Risiko Diabetes Menggunakan Aplikasi Mydiabeticrisk. <i>Zulfaqar J. Def. Sci. Eng. Tech. Vol. 6 Issue 2 (2023)</i> 137-148	Peer-Reviewed
2.	<b>Hassan Mohamed</b> , Nur Aisyah Abdul Fataf, Tengku Mohd Tengku Sembok. 2023. A Framework for Malay Computational Grammar Formalism based on an Enhanced Pola Grammar. <i>JOIV: Int. J. Inform. Visualization, 7(2)</i> - June 2023 363-369.	SCOPUS
3.	Thing Thing Goh, Nor Azliana Akmal Jamaludin, <b>Hassan Mohamed</b> , Mohd Nazri Ismail and Huangshen Chua. 2023. Semantic Similarity Analysis for Examination Questions Classification Using WordNet. <i>Appl. Sci.2023,13,8323</i> . <a href="https://doi.org/10.3390/app13148323">https://doi.org/10.3390/app13148323</a>	SCOPUS
4.	Thing Thing Goh, Nor Azliana Akmal Jamaludin, <b>Hassan Mohamed</b> , Mohd Nazri Ismail, Huang Shen Chua, 2021, A Comparative Study on Part of Speech Taggers' performance on Examination Questions Classification according to Bloom's Taxonomy, <i>ISAIC 2021</i> .	SCOPUS
5.	Muhammad Muhtadi Mohamad Khazani, <b>Hassan Mohamed</b> , Tengku Mohd Tengku Sembok, Nurhafizah Moziyana Mohd Yusop, Sharyar Wani, Yonis Gulzar, Mohd Hazali Mohamed Halip, Syahaneim Marzukhi, Zahri Yunos. 2021. Semantic Graph Knowledge Representation for Al-Quran Verses Based on Word Dependencies. <i>Malaysian Journal of Computer Science</i> , 132–153. <a href="https://doi.org/10.22452/mjcs.sp2021no2.9">https://doi.org/10.22452/mjcs.sp2021no2.9</a>	SCOPUS
6.	M. M. M. Khazani, <b>Hassan Mohamed</b> , N. M. M. Yusop, T. Sembok, Sharyar Wani, M. H. M. Halip, S. Marzukhi, Zahri Yunos. 2021. A Framework for Semantic Knowledge Representation of Al-Quran Based on Word Dependencies. <i>Fifth International Conference on Information Retrieval and Knowledge Management (CAMP)</i>	SCOPUS
7.	Syahaneim Marzukhi, Norfatimah Awang, Syed Nasir Alsogoff, <b>Hassan Mohamed</b> . 2021. RapidMiner and Machine Learning Techniques for Classifying Aircraft Data, <i>Journal of Physics:</i>	SCOPUS

	Conference Series 1997(2021) 012012 doi:10.1088/1742-6596/1997/1/012012	
8.	Syahaneim Marzukhi, <b>Hassan Muhamed</b> , Tengku Mohd bin Tengku Sembok, Zuraini Zainol, Nor Fatimah Awang, Jowati Binti Juhary. 2020. Framework of Malay Intelligent Autonomous Helper (Min@H): Text, Speech and Knowledge Dimension Towards Artificial Wisdom for Future Military Training System, <i>1st International Conference on Artificial Intelligence and Data Sciences (AiDAS)</i> , 2020, DOI: 10.1109/AiDAS47888.2019.8970881.	SCOPUS
9.	Thing Thing Goh, <b>Hassan Mohamed</b> , Nor Azliana Akmal Jamaludin, Mohd Nazri Ismail, H. S. Chua. 2020. Questions Classification According to Bloom's Taxonomy using Universal Dependency and Word Net. <i>Journal TEST Engineering &amp; Management</i> 4374 – 4385.	SCOPUS
10.	Mahendra K Sekaran Nair, <b>Hassan Mohammad</b> , Zulkifly Mat Radzi, Wong Wai Loong. 2020. Malaysian Army Vehicle Maintenance System, Issues and the Way Forward. <i>Solid State Technology</i> 63(6) 8355 - 8364	SCOPUS
11.	<b>Hassan Mohamed</b> , Nazlia Omar and Mohd Juzaidin Ab Azizi. 2018. The Effectiveness of Using Malay Affixes for Handling Unknown Words in Unsupervised HMM POS Tagger. <i>International Journal of Engineering &amp; Technology</i> , 7 (4.29) pp 9-12.	SCOPUS
12.	Mahendra K Sekaran Nair, <b>Hassan Mohamad</b> , Hamzan Abdul Jamil, Zulkifly Mat Radzi. 2018. Forecasting Military Vehicle Spare Parts Requirement using Neural Networks followed by Application of Tacit Knowledge. <i>International Journal of Engineering &amp; Technology</i> , 7 (4.29) pp 13 - 17.	SCOPUS
13.	<b>Hassan Mohamed</b> , Syahaneim Marzukhi, Zuraini Zainol, Tengku Mohd Tengku Sembok and Omar Zakaria. 2018. Semantic-based Social Media Threats Detection. <i>ACM-IMCOM'18 , Proceedings of the 12th International Conference on Ubiquitous Information Management and Communication, Article No. 39</i>	SCOPUS
14.	Hassan Mohamed, Nazlia Omar and Mohd Juzaidin Ab Aziz. 2017. Penalizing Unknown Words' Emissions in Hmm POS Tagger Based on Malay Affix Morphemes. <i>Journal of Fundamental and Applied Sciences</i> , 9(3S), 457-483	Peer-Reviewed
15.	<b>Hassan Mohamed</b> , Nazlia Omar & Mohd Juzaidin Ab Aziz. 2015. Malay Part of Speech Tagger: A Comparative Study on Tagging Tools. <i>Jurnal Teknologi Maklumat dan Multimedia Asia-Pasifik</i> . 4(1):11-23	Peer-Reviewed
16.	<b>Hassan Mohamed</b> , Nazlia Omar & Mohd Juzaidin Ab Aziz. 2011 Statistical Malay Part-of-Speech (POS) Tagger using Hidden Markov Approach. <i>Proceeding of Semantic Technology and Information Retrieval International Conference (STAIR'11)</i> , pp 231-236.	SCOPUS

17.	<b>Hassan Mohamed</b> , Nazlia Omar & Suhaimi Ab. Rahman. 2011. Statistical Malay Dependency Parser for Knowledge Acquisition Based on Word Dependent Relation. <i>Procedia - Social and Behavioral Sciences, Computational Linguistics and Related Fields Volume 27</i> , pp. 188-193.	SCOPUS
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### 2.2.2 Book/Chapter in Book:

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

No.	Authors, year, title, publisher, 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.	<b>Hassan Mohamed</b> . 2022. Pengkomputeran Penandaan Golongan Kata Bahasa Melayu. Penerbit UPM.	National
2.	<b>Hassan Mohamed</b> , Azmah Abdul Malik, Aini Omar, Miswan Surip, Mohamed Rafee Yusoff & Mohamed Awang Lah. 1998. Maklumat dan Perkembangan Islam Melalui Internet. <i>Seminar Cabaran Teknologi Maklumat dan Internet/IKIM</i> .	National

### 2.2.3 Proceeding Articles:

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

No.	Authors, year, title, publisher/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.	Muhammad Muhtadi Mohamad Khazani, Hassan Mohamed, Tengku Mohd Tengku Sembok, Nurhafizah Moziyana Mohd Yusop, Sharyar Wani, Yonis Gulzar, Mohd Hazali Mohamed Halip, Syahaneim Marzukhi, Zahri Yunos, A Framework for Semantic Knowledge Representation of Al-Quran Based on Word Dependencies, Fifth International Conference on Information Retrieval and Knowledge Management (CAMP), pp. 8-13, 2021.	International
2.	Thing Thing Goh, Hassan Mohamed, Nor Azliana Akmal Jamaludin, Mohd Nazri Ismail, H. S. Chua. 2020. Questions Classification According to Bloom's Taxonomy using Universal Dependency and Word Net. ICDETIA'19.	International
3.	<b>Hassan Mohamed</b> , Syahaneim Marzukhi, Zuraini Zainol, Tengku Mohd Tengku Sembok, Omar Zakaria. 2018. Semantic-based Social Media Threats Detection. IMCOM '18: <i>Proceedings of the 12th International Conference on Ubiquitous</i>	International

	<i>Information Management and Communication January 2018</i> Article No.: 39 Pages 1–4 <a href="https://doi.org/10.1145/3164541.3164620">https://doi.org/10.1145/3164541.3164620</a>	
4.	Mahendra K Sekaran Nair, Hassan Mohamad, Hamzan Abdul Jamil, Zulkifly Mat Radzi, Forecasting Military Vehicle Spare Parts Requirement using Neural Networks followed by Application of Tacit Knowledge. ICICTM'18.	International
5.	Hassan Mohamed, Nazlia Omar, Mohd Juzaidin Ab Aziz, The Effectiveness of Using Malay Affixes for Handling Unknown Words in Unsupervised HMM POS Tagger. ICICTM'18.	International
6.	Hassan Mohamed, PSS2017	University
7.	Hassan Mohamed, Nazlia Omar, Mohd Juzaidin Ab Aziz, Zuraini Zainol & Syahaneim Marzukhi. 2016. Penalizing Unknown Words' Emissions in Hmm Pos Tagger Based on Malay Affix Morphemes. DSTC'16.	International
8.	Suhaimi Ab. Rahman, Nazlia Omar & <b>Hassan Mohamed</b> . 2011. Head Modifier Identifier in Malay Sentence Using Grammar Rules and Thematic Relation. <i>In 12th Conference of The Pacific Association For Computational Linguistics (PACLING 2011)</i> , IIUM, Kuala Lumpur, Malaysia. 19 & 21 July 2011.	International
9.	Suhaimi Ab Rahman, Nazlia Omar, <b>Hassan Mohamed</b> , Mohd Juzaidin Ab Aziz. 2011. A synonym contextual-based process for handling word similarity in Malay Sentence. <i>International Conference on Advanced Science, Engineering &amp; IT 2011 (ISC2011)</i> . Jan-2011, 248-252.	International
10.	<b>Hassan Mohamed</b> , Nazlia Omar & Mohd Juzaidin Ab Aziz. 2010. An Evaluation of Trigram Malay Part-of-Speech Tagger. <i>Proceedings of the 4th International MALINDO Workshop</i> . pp. 36-41.	International
11.	<b>Hassan Mohamed</b> , Nazlia Omar & Mohd Juzaidin Ab Aziz. 2009. Statistical Malay Part-of-Speech Tagger Using Second Order Markov Model. <i>Proceeding of 5th National Conference on Programming Science (Atur09)</i> , pp. 30-39.	National
12.	Nur Razia Mohd Suradi & <b>Hassan Mohamed</b> . 2009. Capability Maturity Model Integration (CMMI) Assessment as Quality Model in Software Development and Implementation. <i>International Conference on Quality Productivity and Performance Measurement (ICQPPM 2009)</i> , Kuala Lumpur.	International
13.	<b>Hassan Mohamed</b> . 2008. English – Malay Sentence Alignment by Using "Vanilla Aligner" for Corpus-based Machine Translation. <i>International Conference on Information Technology &amp; Multimedia UNITEN</i> .	International
14.	<b>Hassan Mohamed</b> , Arund Anand, Mohammad Reza Beik Zadeh & Dickson Lukose. 2007. Semantic Interpretation Based on Natural Language Sentence Constituent and Linkage Information. <i>MIMOS Symposium</i> .	National
15.	<b>Hassan Mohamed</b> , Kamsuriah Ahmad & Adul Razak Hamdan. 2000. Pencaman Corak Imej Kanal Pusat Osteon Tulang. <i>IT Simposium UKM</i> ,	National

### 2.3 Presentation:

(Please list in chronological order)

No.	Event	Title of Paper Presented	Role (Keynote Speaker / Invited Speaker / Presenter)	Date	Organizer
1.	ICIST'2022	A Framework for Malay Computational Grammar Formalism Based-On Enhanced Pola Grammar	Presenter	Dec 2022	Politeknik Negeri Semarang
2.	ICETIA'19	Questions Classification According to Bloom's Taxonomy using Universal Dependency and Word Net	Presenter	Oct 2019	Geomatika University College
3.	Machine Learning Meets Operations Research Seminar 2019	Malay Intelligent Autonomous Helper (MIN@fi): Tert, Speech and Knowledge Be Applied in Operations Research	Invited Speaker	27 Jun 2019	UPNM
4.	ICICTM'18	The Effectiveness of Using Malay Affixes for Handling Unknown Words in Unsupervised HMM POS Tagger	Presenter	May 2018	UNIKL-UPNM
5.	IMCOM '18	Semantic-based Social Media Threats Detection. <a href="https://doi.org/10.1145/3164541.3164620">https://doi.org/10.1145/3164541.3164620</a>	Presenter	January 2018	UNIKL
6.	2 <sup>nd</sup> International Conference on Information & Communication Technology	The Effectiveness of Using Malay Affixes for Handling Unknown Words in Unsupervised HMM POS Tagger.	Presenter	3 May 2018	National Defence University of Malaysia and Kuala Lumpur University
7.	12th International Conference on Ubiquitous	Semantic-based Social Media Threats Detection.	Presenter	5 January 2018	Sungkyunkwan University



	Information Management and Communication				(SKKU), Korea and University Kuala Lumpur, Malaysia
8.	Semantic Technology and Information Retrieval International Conference (STAIR'11)	Statistical Malay Part-of-Speech (POS) Tagger using Hidden Markov Approach.	Presenter	28 June 2011	Universiti Kebangsaan Malaysia
9.	12th Conference of The Pacific Association for Computational Linguistics (PACLING 2011)	Statistical Malay Dependency Parser for Knowledge Acquisition Based on Word Dependent Relation.	Presenter	19 July 2011	International Islamic University of Malaysia
10.	4th International MALINDO Workshop.	An Evaluation of Trigram Malay Part-of-Speech Tagger.	Presenter	2 <sup>nd</sup> August 2010	Universitas Indonesia, National University of Singapore and Multimedia University
11.	5 <sup>th</sup> National Conference on Programming Science (Atur09)	Statistical Malay Part-of-Speech Tagger Using Second Order Markov Model.	Presenter	2009	Universiti Kebangsaan Malaysia
12.	International Conference on Information Technology & Multimedia	English – Malay Sentence Alignment by Using” Vanilla Aligner” for Corpus-based Machine Translation.	Presenter	2008	UNITEN
13.	MIMOS Symposium	Semantic Interpretation Based on Natural Language Sentence Constituent and Linkage Information.	Presenter	2006	MIMOS

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

#### 3.1 Academic Recognition and Leadership

Academic recognition and leadership such as Academic Award, Academic Assessor/ /Promotion Assessor (External), Visiting Professor/Fellowship, Editorial Board and other academic recognition.

No.	Academic Recognition	Year	Level	Awarding Body / Name of Institution
1.	Penasihat Teknikal Program Diploma in Compaterscience & Bachelor of Computerscience (Hons)	2019	Diploma & Degree	Geomatika University & College

#### 3.2 Consultancy work that benefited to the University.

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

No.	Title	Year	Sponsor	Value	Duration

#### 3.3 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 and duration)

No.	Position/Membership	Duration
1.	Director of Cyber Security and Digital Industrial Revolution Centre	
2.	Head of Department for Knowledge Technology and Security, Cyber Security Centre of UPNM.	2 Years
3.	Research Fellow at Cyber Security Centre of UPNM	6 Years

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**3.4 Service to the community**

(Please list in chronological order)

No.	Organization	Role	Start Date	End Date	Level

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

: 

Name

: DR HASSAN BIN MOHAMED

Faculty/Department

: FSTP/SAINS KOMPUTER; PKSRID

Date

: 20 Sept @023

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

Dean

Signature and Stamp :

Date

: