



# **UNIVERSITI PUTRA MALAYSIA**

## **CURRICULUM VITAE**



**NURFADHLINA MOHD SHAREF, PhD**

**FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY  
UNIVERSITI PUTRA MALAYSIA**

**DECEMBER 2022**



**Assoc. Prof. Ts. Dr. NURFADHLINA MOHD SHAREF**

## **PERSONAL STATEMENTS**

I'm an enthusiastic computer scientist with a focus on artificial intelligence (AI). I've worked as an academic staff member at the Department of Computer Science, Faculty of Computer Science and Information Technology, Universiti Putra Malaysia since 2003. After finishing my PhD degree in the field of Intelligent Systems at the University of Bristol in the United Kingdom, I was promoted to Senior Lecturer in 2010. I was named the Head of the Intelligent Computing Research Group for two years after receiving a promotion to Associate Professor in 2016. In addition to my initial training in text mining research, my research focus continues to broaden into optimization and recommendation system issues, and I started looking into practical research in the field of education through various grants. I now work in a number of additional fields, including agriculture, biodiversity, and ageing.

I have taken part in numerous locally and abroad funded project for fundamental, applied, and policy based works. I have collected a total of RM 2,152,215 as a principal investigator or project leader in 3 international grants, 3 local consultation projects, and 2 fundamental projects under Ministry of Higher Educational, Malaysia. Along with other researchers from different institutions, I worked on 17 projects for a total more than RM 600K. I have published 60 journal articles, where 47 as a senior author, and 57 proceedings. I was also active in establishing policies and guideline writing at university, national and international level.

Four (4) PhD students and 2 MSc students under my supervision as chairman of committee have graduated through various completed machine learning research, while 10 students whom I co-supervised managed to complete their postgraduate studies. I am usually been assigned to teach AI related courses such as Intelligent Computing, Data Mining, and Algorithm Design and Analysis, besides other computer science courses such as Computer Programming, and Operating System. Meanwhile, my experience for master courses cover Research Methodology, and Automata Theory and Formal Language.

I have served as internal and external examiners for postgraduate thesis in many local and foreign universities. I have also been active in industry engagements such as technical advisor, consultant, academic fellow, keynote speaker, trainer and academic program external reviewer. One of the best experience and training I gained from being an active member in Young Scientist Network-Academy of Science Malaysia (YSN-ASM), is the scientists role as a change maker and making an impact. My experience as exco for YSN-ASM for three cycles, which was the main catalyst for my direct involvement with the Ministry of Science and Technology (MOSTI) and contributing to STEM community. One of the best opportunities I had in my career so far was when I got appointed as the Chair for ASM Data Scientist group for COVID-19 where my team supported the Jawatankuasa Jaminan Akses Vaksinasi COVID19 (JKJAV) for vaccination operation guidelines writing and vaccination completion planning and scheduling. I was also one of the member in the Jawatankuasa Pelulus Teknikal Pembukaan Pusat Pemberian Vaksin (PPV) Mudah Alih (Mobile) dan Pandu Lalu (Breakthrough). Another valuable experience I got so far was through my role as one of the national task force for AI Roadmap implementation.

I am also grateful to be awarded twice the UPM Excellent Service Award; in 2016 for my position as an associate researcher, and in 2018 for my role as a Deputy Director at the Center for Academic Development (CADE). I am appreciative for the lesson I've gained from managing the innovation in teaching and learning for UPM, as this has been the foundation for my ability in leading various other roles. My training as a fellow under the APEC Science Leadership programme 2021 has also been one of the main factors that inspired me to progress as a leader in my main discipline, as well as making an impact to the community and society.

# CURRICULUM VITAE



**Assoc. Prof. Ts. Dr. NURFADHLINA MOHD SHAREF**

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H-index: 13

Google Scholar Citation: 1122

Google Scholar H-index: 18

## RESEARCH INTERESTS

1. Artificial intelligence, machine learning and data science
2. Intelligent system and digital twin
3. Text mining, recommendation system, learning analytics, e-learning

## ACADEMIC QUALIFICATION

Nama Sijil / Kelayakan (Certificate / Qualification obtained)	Nama Sekolah Institusi (Name of School / Institution)	Tahun (Year obtained)	Bidang pengkhususan (Area of Specialization)
Bachelor of Information Technology	Universiti Kebangsaan Malaysia, Malaysia	2003	Science and System Management
Master of Science	Universiti Putra Malaysia, Malaysia	2007	Software Engineering
Doctor of Philosophy	University of Bristol, United Kingdom	2010	Intelligent System

## PROFESSIONAL RECOGNITION

1. Graduate Technologist, 2016-current
2. Professional Technologist 2021-current

## PROFESSIONAL MEMBERSHIP

1. Senior Member, IEEE Computer Society (2015-current)
2. Member, Persatuan Capaian Maklumat dan Pengurusan Pengetahuan (PECAMP) (2011-current)
3. Affiliate Member, Young Scientist Network-Academy of Sciences Malaysia (YSN-ASM) (2017-2018)
4. Member, Council of e-Learning for Malaysia Public Universities (MEIPTA) (2018-current)
5. Associate Member, Young Scientist Network-Academy of Sciences Malaysia (YSN-ASM) (2020-current)
6. International Association of Computer Science and Information Technology (IACSIT) (2017-current)
7. UPM Alumni Association (2007-current)
8. Persatuan Pegawai Akademik (2011-current)
9. Persatuan Permata (2011-current)

## EMPLOYMENT HISTORY

<b>Majikan / Employer</b>	<b>Jawatan / Designation</b>	<b>Jabatan / Department</b>	<b>Tarikh lantikan / Start Date</b>	<b>Tarikh tamat / Date Ended</b>
Universiti Putra Malaysia	Associate Professor	Department of Computer Science, Faculty of Computer Science and Information Technology	July 2016	Current
	Deputy Director	Centre for Academic Development (CADE)	July 2018	July 2023
	Senior Lecturer	Department of Computer Science, Faculty of Computer Science and Information Technology	November 2010	June 2016
	Tutor	Department of Computer Science, Faculty of Computer Science and Information Technology	August 2003	October 2010
Universiti Kebangsaan Malaysia	Research Assistant	Intelligent Agent for Accounting Modeling	May 2003	August 2003

## PROFESSIONAL SERVICES FOR INDUSTRIES

### 19 INTERNATIONAL LEVEL ENGAGEMENTS

<b>No</b>	<b>Organization</b>	<b>Position</b>	<b>Start Date</b>	<b>End Date</b>	<b>Expertise/Role</b>
1.	IEEE Computer Society	Technical Committee on Pattern Analysis and Machine Intelligence (TCPAMI)	8 Jun 2022	Current	IEEE Senior Member
2.	IEEE Computer Society	Technical Committee on Intelligent Informatics (TCII)	8 Jun 2022	Current	IEEE Senior Member
3.	IEEE Computer Society	Technical Committee on the Internet (TCI)	8 Jun 2022	Current	IEEE Senior Member
4.	IEEE Computer Society	Technical Committee on Data Engineering (TCDE)	8 Jun 2022	Current	IEEE Senior Member
5.	APEC Science Leadership Program 2021 (APEC-SLP2021)	Chairperson	14 <sup>th</sup> Feb 2022	28 <sup>th</sup> Feb 2022	Workshop on Preparing COVID-19 Endemic: Back to Work Better (PCE-B2WB)
6.	APEC Science Leadership Program 2021 (APEC-SLP2021)	Inclusive Science Leadership Program for Early- and Mid-Career Researchers in APEC	1 <sup>st</sup> March 2021	25 <sup>th</sup> March 2021	Fellow
7.	Universitas Telkom, Bandung, Indonesia	Online Course Instructor	13 <sup>th</sup> July 2020	24 <sup>th</sup> July 2020	Data Analytic Course, Global Online Learning Week (MOOC Course)
8.	The Assistant Director General for Communication and Information, United Nations Education, Scientific and Cultural Organization (UNESCO)	Core Expert	13 <sup>th</sup> July 2019	30 <sup>th</sup> December 2019	Inclusive Open Educational Resource (iOER)

9.	University of Ohio, United States	Collaborative Global Online Learning Initiative	21 <sup>st</sup> Oct 2021	27 <sup>th</sup> Oct 2021	Participant (representative of UPM)
10.	IEEE Circuit and Signal System (IEEE CASS)	Microlearning Committee	31 <sup>st</sup> July 2020	31 <sup>st</sup> December 2022	Chief of Platform
11.	Universitas Telkom, Indonesia	International Conference on Advancement in Data Science, e-Learning, and Information System 2020	June 2020	Oct 2020	Co-chair
12.	International Conference on Innovation in Computer Science and Engineering (ICiCSE 2018)	Track Chair	October 2018	October 2018	Artificial Intelligence and Big Data
13.	13th International Conference on Intelligent Systems Design and Applications (ISDA 2013)	Co-chair	Jan 2013	Oct 2013	Artificial Intelligence
14.	IADIS International Conference on Internet Technologies and Society (ITS2013)	Co-chair	Jan 2013	Oct 2013	Artificial Intelligence
15.	IADIS International Conference Sustainability, Technology And Education 2013	Co-chair	Jan 2013	Oct 2013	Artificial Intelligence
16.	IADIS International Conference on Educational Technologies (ICEduTech2013)	Co-chair	Jan 2013	Oct 2013	Artificial Intelligence
17.	IADIS International Conference on Internet Technologies and Society (ITS2013)	Editor	Jan 2013	Oct 2013	Proceeding of IADIS International Conference on Internet Technologies and Society (ITS2013)
18.	IADIS International Conference Sustainability, Technology And Education 2013	Editor	Jan 2013	Oct 2013	Proceeding of IADIS International Conference Sustainability, Technology And Education 2013
19.	IADIS International Conference on Educational Technologies (ICEduTech2013)	Editor	Jan 2013	Oct 2013	Proceeding of IADIS International Conference on Educational Technologies (ICEduTech2013)

## 23 NATIONAL LEVEL ENGAGEMENTS

No	Organization	Position	Start Date	End Date	Expertise/Role
1.	Ministry of Science and Technology (MOSTI)	Ahli Pasukan Petugas (Task Force) Pelan Hala Tuju Kecerdasan Buatan Negara (2021-2025)	21 July 2022	Current	Artificial Intelligence

2.	Ministry of Health (MoH)	Anggota Kumpulan Kerja 1 (WG1) Bawah Pasukan Petugas Khas bagi Penambahbaikan Budaya Kerja Perkhidmatan Kesihatan Atau Healthcare Work Culture Improvement Task Force (HWCITF)	13 May 2022	12 July 2022	Data Scientist
3.	Academy of Sciences Malaysia (ASM)	Section Editor	October 2022	September 2023	ASM Science Journal
4.	Statworks Sdn Bhd	Pelan Analitik Data Raya Jabatan Alam Sekitar Kementerian Alam Sekitar dan Air	August 2022	August 2022	Big Data Analytics Expert
5.	Academy of Sciences Malaysia (ASM)	ASM Digitalisation Committee	29 Nov 2021	Current	YSN-ASM Member
6.	Young Scientist Network-Akademi Sains Malaysia (YSN-ASM)	Chair, Science Education Working Group	4 <sup>th</sup> December 2021	Current	Science Education
7.	Council of e-Learning for Public Universities (MEIPTA)	Member	July 2018	June 2023	e-Learning
8.	Department of Higher Education (JPT), Ministry of Higher Education (MOHE)	Consultant Panel	18 June 2021	17 June 2022	Pembangunan Kaedah Pengiraan Merit Baharu Kemasukan Ke IPTA Dan ILKA Bagi Program Pengajian Lulusan SPM Mulai Sesi Akademik 2022/2023
9.	Department of Higher Education (JPT), Ministry of Higher Education (MOHE)	Secretariat for Public University Academic Autonomy Task Force	10 <sup>th</sup> March 2021	9 <sup>th</sup> March 2022	Academic Development
10.	National COVID19 Immunisation Program (CITF), Ministry of Science and Technology (MOSTI)	Committee Member	13th June 2021	2 <sup>nd</sup> October 2021	Technical Approval Committee for Drivethrough and Mobile Vaccination Administration Centre Opening
11.	Academy of Sciences Malaysia (ASM)	Chair of ASM Data Scientist for COVID-19	Jan 2021	Jan 2022	Data Analytics for COVID19 Vaccination Distribution Planning
12.	IEEE Circuit and System Society (CAS)	Mentor for GeronCAS Student Design Competition	25 <sup>th</sup> October 2021	5 <sup>th</sup> November 2021	EEG-driven Memory-Limited Online Reinforcement Learning Hardware Implementation for Video and Audio Selection in the Aging Era
13.	Lembaga Hasil Dalam Negeri (LHDN)	Consultant	Jan 2020	Jan 2022	Kajian Keberkesanan Penyampaian Bantuan Sara Hidup Rakyat (BSH)

14.	Young Scientist Network-Akademi Sains Malaysia (YSN-ASM)	Co-Chair, Science Education Working Group	4 <sup>th</sup> December 2020	3 <sup>rd</sup> December 2021	Science Education
15.	Statworks Sdn Bhd	Big Data Analytics Framework Consultant Validator for Department of Survey and Mapping Malaysia (JUPEM)	February 2020	June 2020	Big Data Analytics Expert
16.	Online Fellas Sdn Bhd	Technical Advisor and Coordinator	April 2017	October 2018	Shippez.com collaboration with DNEX Bhd and Osokawi Sdn Bhd
17.	Century Software (M) Sdn Bhd	Academic Felo	July 2017	April 2018	Hab Perkongsian Maklumat Kerajaan (MyGDX) Project for MAMPU
18.	Soft Computing and Data Mining Centre, Universiti Tun Hussein Onn	Associate Researcher	June 2017	June 2019	Intelligent Computing
19.	CyberSecurity Malaysia (CSM) Berhad	Consultant	January 2016	January 2018	National Integrated Information Security Threat Factor Profiling
20.	Khaiban Computer Sdn Bhd	Academic Advisor	April 2015	March 2016	Pycademy
21.	MyData Research Sdn Bhd	Consultant	2014	2014	MDEC Open Data Project
22.	Centre of Agent Technology, College of Information Technology, Universiti Tenaga Malaysia (UNITEN)	Associate Researcher	June 2012	June 2016	Semantic Technology, Software Agent
23.	Faculty of Technology and Information Science, Universiti Kebangsaan Malaysia (FTSM UKM)	Postdoctoral Fellow, Knowledge Technology Group, Centre of Artificial Intelligence Technology (CAIT)	April 2012	April 2013	Semantic Technology, Natural Language Processing

#### PROFESSIONAL SERVICES AS ACADEMIC EXPERTS FOR OTHER INSTITUTIONS

#### 2 Appointments as External Examiner for Academic Programs, 8 Appointments as Academic Program Committee

No.	Organization	Position	Start Date	End Date	Expertise/Role
1.	Faculty of Computer Science and Information Technology, Universiti Malaya (FSKTM UM)	Penilai Akreditasi Semula	26 Sep 2022	27 Sep 2022	Program Bachelor Sains Komputer (Sains Maklumat)
2.	Universiti Teknikal Melaka (UTeM)	Committee of Academic Studies Program	1 <sup>st</sup> April 2021	31 <sup>st</sup> March 2023	Master of Technology (Data Science and Analytics)
3.	Faculty of Computer Science and Information Technology, Universiti Malaya (FSKTM UM)	Committee of Academic Studies Program	7 <sup>th</sup> May 2016	6 <sup>th</sup> May 2018	Bachelor of Computer Science (Data Science)

4.	Institut Teknologi Pertama	External Examiner	2017	2019	Foundation Studies in Information Technology
5.	Institut Teknologi Pertama	External Examiner	2017	2019	Diploma in Information Technology
6.	Institut Teknologi Pertama	External Examiner	2017	2019	Certificate in Computer Science
7.	Linton University College	External Examiner	2017	2019	Diploma in Information Technology
8.	Linton University College	External Examiner	2017	2019	Foundation in Information Technology
9.	Linton University College	External Examiner	2017	2019	Foundation in Information Technology
10.	Institute of Technology Pertama	External Examiner	2017	2019	Foundation Studies in Information Technology

## PROFESSIONAL SERVICES FOR UPM

### 10 UNIVERSITY LEVEL APPOINTMENTS

No	Organization	Position	Start Date	End Date	Expertise/Role
1.	Pusat Pengurusan Penyelidikan (RMC) UPM	Panel penilai geran	2022	2023	Panel penilai geran FRGS
2.	Centre for Academic Development (CADE)	Co-Chair	2022	2022	International University Carnival on e-Learning (IUCEL2022)
3.	Centre for Academic Development (CADE)	Editor	2022	2022	International University Carnival on e-Learning (IUCEL2022)
4.	Gerontechnology Lab, Malaysian Research Institut on Ageing (MyAgeing™)	Interim Associate Researcher and Data Science Field Lead	1 <sup>st</sup> March 2021	28 <sup>th</sup> February 2024	Data Science
5.	Computational Statistics and Operational Research Lab, Institute for Mathematical Research (INSPEM), Universiti Putra Malaysia	Associate Researcher	September 2021	Ogos 2023	Data Science
6.	Office of the Deputy Vice Chancellor (Industry and Community Relations)	Task Force for Development of Intelligent System for Industrial and Community Networking (ICRIS 2.0)	24 <sup>th</sup> March 2021	current	Intelligent System
7.	Office of the Deputy Vice Chancellor (Student Affairs and Alumni)	Head of Teaching and Learning Committee, UPM Implementation Guideline for Inclusive Campus	1 <sup>st</sup> February 2021	1 <sup>st</sup> April 2021	Inclusive Campus
8.	Geran Inisiatif Putra	Geran Inisiatif Putra	2019	2019	Panel Penilai
9.	Geran Insentif Penyelidikan Untuk Pengajaran Dan Pembelajaran 2019 (GIPP 2019)	Geran Insentif Penyelidikan Untuk Pengajaran Dan Pembelajaran 2019 (GIPP 2019)	2019	2019	Panel Penilai
10.	InfoComm & Development UPM (IDEC)	Jawatankuasa Teknologi Maklumat dan Komunikasi UPM (JKICT)	2018	2023	Member

11.	Intelligent Computing Group, Faculty of Computer Science and Information Technology, UPM	Head	December 2016	December 2018	Intelligent Computing
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### PROFESSIONAL SERVICES AS INVITED SPEAKER/TRAINER

25 sessions as keynote speaker/plenary speaker, 17 training delivered

No.	Syarikat/ Company	Peranan/ Role	Penerangan/Description	Tarikh mula/ Start Date	Tarikh tamat / Date Ended
1.	Joint Science Technology Innovation Seminar, Abdussalam International Institute of Theoretical Physics (ICTP), Italy	Speaker	Interactive Machine Learning With Deep Reinforcement Learning And Generative Adversarial Network In Digital Twin	19 <sup>th</sup> October 2022	19 <sup>th</sup> October 2022
2.	2022 International Conference on Advanced Creative Networks and Intelligent Systems (ICACNIS 2022)	Keynote Speaker	Interactive Machine Learning Opportunities and Challenges in Digital Twin Applications	23 <sup>rd</sup> November 2022	24 <sup>th</sup> November 2022
3.	Centre for Academic Development (CADE)	Trainer	Bengkel Pembangunan Micro-credentials UPM	1 <sup>st</sup> December 2022	31 <sup>st</sup> December 2022
4.	Maktab Rendah Sains Mara (MRSM) Bentong	Trainer	Bengkel Pengenalan Kecerdasan Buatan dan Chatbot	14 Sep 2022	14 Sep 2022
5.	Centre for Academic Development (CADE)	Trainer	Micro-credentials UPM: Lets get started!	16 <sup>th</sup> March 2022	14 <sup>th</sup> March 2022
6.	Centre for Academic Development (CADE)	Trainer	UPM E-Learning Ecosystem, Induction Course (teaching and Learning)	14 <sup>th</sup> March 2022	14 <sup>th</sup> March 2022
7.	International University Carnival on e-Learning (IUCEL2022)	Speaker	Revolutionising Learning Analytics: Making It Works!	29 <sup>th</sup> June 2022	29 <sup>th</sup> June 2022
8.	International University Carnival on e-Learning (IUCEL2022)	Trainer	Chatbot 101	28 <sup>th</sup> June 2022	28 <sup>th</sup> June 2022
9.	Academic Development and Quality Assurance Office, Infrastructure University Kuala Lumpur (IUKL)	Trainer	Innovative Learning Delivery through Blended Learning in the New Norms	10 <sup>th</sup> March 2022	10 <sup>th</sup> March 2022
10.	Edutech Malaysia 2022	Speaker	Upskilling and reskilling: developing digitally competent faculty for the Education 4.0 age	10 <sup>th</sup> March 2022	10 <sup>th</sup> March 2022
11.	Universitas Telkom, Indonesia	Keynote Speaker	Workshop on Research Methodology for PhD in Computer Science	11 <sup>th</sup> February 2022	11 <sup>th</sup> February 2022
12.	Department of International Affairs, Japan Science and Technology Agency (JST)	Keynote Speaker	Machine learning for predictive cognitive impairment based on integrative assessment instruments optimization towards dementia self- screening and preparation, e- ASIA JRP International Workshop on Greener Digital Cities	1 <sup>st</sup> December 2021	1 <sup>st</sup> December 2021

13.	University of Alcala, Spain	Speaker and Special Session Chair	Workshop on Personalized Learning Technologies, 1 <sup>st</sup> Conference On Online Teaching For Mobile Education (OT4ME 2021)	25 <sup>th</sup> November 2021	25 <sup>th</sup> November 2021
14.	Universitas Telkom, Indonesia	Keynote Speaker and Track Chair (Data Science)	Multi-Objective Deep Reinforcement Learning for Recommendation System, International Conference on Advancement on Data Science, e-Learning and Information System 2021 (ICADEIS 2021)	13 <sup>th</sup> October 2021	13 <sup>th</sup> October 2021
15.	Academy of Sciences Malaysia (ASM)	Speaker	Artificial Intelligence and Big Data Analytics Technical Workshop, National Science Challenge 2021	11 <sup>th</sup> Sep 2021	11 <sup>th</sup> Sep 2021
16.	Academy of Sciences	Trainer	Data Science Training Program for PlanMalaysia, Jabatan Perancangan Bandar	11 <sup>th</sup> August 2021	25 <sup>th</sup> August 2021
17.	Centre for Academic Development (CADe), UPM	Online Trainer	Putra Collaborative Global Online Learning (PutraCGOL): Awareness	26 <sup>th</sup> April 2021	26 <sup>th</sup> April 2021
18.	British Council	Speaker	Women in STEM – Igniting Passion, Inspiring Leadership	6 <sup>th</sup> March 2021	6 <sup>th</sup> March 2021
19.	Centre for Academic Development (CADe), UPM	Online Trainer	When Arts Meets Technology: Data Analytics for Personalised Learning	26 <sup>th</sup> February 2021	26 <sup>th</sup> February 2021
20.	Jawahar Lal Nehru University, Delhi, India	Keynote Speaker	Is Artificial Intelligence for Education the Answer for a Super Educator?, 3rd International Conference on Computing and Communication System-2021	2nd February 2021	2nd February 2021
21.	DMI-St.John the Baptist University, South Africa	Keynote Speaker	Paving IR4.0 in Education through Learning Analytics and Chatbots, International Virtual Conference on Innovation Science Engineering, Management and Social Sciences (ICISEMS2021)	18th February 2021	18th February 2021
22.	UPM Sports Academy, UPM	Speaker	Data Science for Sports	15th Jan 2021	15th Jan 2021
23.	Jabatan Kerja Raya, Malaysia	Speaker	Masyarakat Digital melalui Data Raya dan Kecerdasan Buatan, Hari Profesion Teknikal 2020	28 <sup>th</sup> December 2020	28 <sup>th</sup> December 2020
24.	Crescendo College, Johor	Trainer	21 <sup>st</sup> Century Educator	9 <sup>th</sup> November 2020	10 <sup>th</sup> November 2020
25.	HELWA ABIM	Speaker	Data Raya dan Kecerdasan Buatan; Peranan ANDA dalam Membentuk Masa Hadapan	5 <sup>th</sup> November 2020	5 <sup>th</sup> November 2020
26.	International Conference on Advancement on Data Science, e-Learning and Information System 2020 (ICADEIS 2020)	Keynote Speaker and Track Chair (Data Science)	Becoming a Super Educator: the Quest of Artificial Intelligence in Personalising Learning	20 <sup>th</sup> Oct 2020	20 <sup>th</sup> Oct 2020

27.	UPM Education and Training (UPM ET)	Trainer	Workshop on Development of Learning Management System using Moodle	7 <sup>th</sup> October 2020	9 <sup>th</sup> October 2020
28.	Universitas Nasional Indonesia, Indonesia	Speaker	Public Lecture- Workshop on Machine Learning/ Pattern Recognition/ Computation Intelligence	2 <sup>nd</sup> September 2020	2 <sup>nd</sup> September 2020
29.	Universitas Telkom, Bandung, Indonesia	Online Instructor	Data Analytic Course, Global Online Learning Week (MOOC Course)	13 <sup>th</sup> July 2020	24 <sup>th</sup> July 2020
30.	Universitas Telkom, Bandung, Indonesia	Plenary Speaker	Remote Learning: COVID-19 Aftermath UPM's story	21 <sup>st</sup> July 2020	21 <sup>st</sup> July 2020
31.	Centre for Academic Development (CADE), UPM	Online Trainer	Experiential e-Learning	31 <sup>st</sup> March 2020	31 <sup>st</sup> March 2020
32.	Universiti Tenaga Nasional	Plenary Speaker	Specialized Talk on Machine Learning Techniques	19 <sup>th</sup> February 2020	19 <sup>th</sup> February 2020
33.	Faculty of Educational Studies, UPM	Keynote Speaker	Enculturation of Innovative Teaching Practise in Fulfilling International Repute University Aspiration, Innovation Showcase 2019	12 <sup>th</sup> December 2019	12 <sup>th</sup> December 2019
34.	Young Scientist Network	Trainer	Demystifying Artificial Intelligence, YSN Colloquium 2019	13 <sup>th</sup> December 2019	13 <sup>th</sup> December 2019
35.	Institut Latihan Kecemerlangan MARA	Trainer	Online Learning Course Development I	13 <sup>th</sup> November 2019	15 <sup>th</sup> November 2019
36.	Institut Latihan Kecemerlangan MARA	Trainer	Online Learning Course Development II	27 <sup>th</sup> November 2019	29 <sup>th</sup> November 2019
37.	Institut Latihan Kecemerlangan MARA	Trainer	Learning Management System	20 <sup>th</sup> October 2019	23 <sup>rd</sup> October 2019
38.	Petrosains	Trainer	Demystifying Artificial Intelligence	27 <sup>th</sup> August 2019	28 <sup>th</sup> August 2019
39.	Faculty of Educational Studies, UPM	Keynote Speaker	Innovation is Smart Campus, Innovation Showcase 2018	12 <sup>th</sup> December 2018	12 <sup>th</sup> December 2018
40.	TraxxFM	Invited Speaker	Romancing Data for Life Analytics	21 <sup>st</sup> February 2018	21 <sup>st</sup> February 2018
41.	Telkom University, Indonesia	Plenary Speaker	Empowering Educators, Embracing Innovations - Transforming 21st Century Educators	4 <sup>th</sup> October 2018	4 <sup>th</sup> October 2018
42.	Universiti Malaysia Pahang, Malaysia	Plenary Speaker	Putra InnoCreative Educators: A Gallery of Teaching Innovation Best Practices for e-Learning Symposium: Best Practices & Research Opportunities In TVET	28 <sup>th</sup> November 2018	28 <sup>th</sup> November 2018

## PROFESSIONAL SERVICES AS JOURNAL REVIEWER

### Reviewer for 13 Cited Journals and 1 Nonb-Cited Journal

No.	Year Start	Journal Name	Journal Type
1.	2022	Asia-Pacific Journal of Information Technology and Multimedia	Citation Index
2.	2022	Digital Signal Processing	
3.	2021	Knowledge and Information System	
4.	2020	Asia-Pacific Journal of Information Technology and Multimedia	
5.	2018	Malaysian Journal of Computer Science	
6.	2018	PLoS One	
7.	2018	IEEE Transactions on Sustainable Computing	
8.	2017	Information Processing and Management	
9.	2016	Knowledge and Information System	
10.	2015	International Journal of Machine Learning and Cybernetics	
11.	2015	Journal of Engineering Science and Technology (JESTEC)	
12.	2013	Knowledge and Information System	
13.	2022	Information Processing and Management	
14.	2015	Sindh University Research Journal (Science Series)	Non-Citation Index

## PROFESSIONAL SERVICES AS JURY/JUDGE

### 8 appointments as judge/jury

No.	Syarikat/ Company	Peranan/ Role	Penerangan/Description	Tarikh mula/ Start Date	Tarikh tamat / Date Ended
1.	International Research and Symposium and Exposition (RISE) 2020, Universiti Tun Hussein Onn Malaysia	Judge	Innovation Competition	25 <sup>th</sup> November 2020	30 <sup>th</sup> November 2020
2.	International Medical University, Malaysia	Judge	Innovation Competition, Learning Resource Festival 2020 (LRF2020)	3 <sup>rd</sup> November 2020	4 <sup>th</sup> November 2020
3.	Centre for Academic Development (CADE), UPM	Jury	International Putra Innocreative Poster Competition (PiCTL 2020)	22 <sup>nd</sup> October 2020	30 <sup>th</sup> October 2020
4.	Centre for Academic Development (CADE), UPM	Jury	PUTRA InnoCreative Award	22 <sup>nd</sup> October 2020	30 <sup>th</sup> October 2020
5.	Fellowship of Vice Chancellor Award (AFNC), UPM	Jury	Teaching and Learning	22 <sup>nd</sup> October 2019	30 <sup>th</sup> Pctober 2019
6.	Centre for Academic Development (CADE), UPM	Jury	International Putra Innocreative Poster Competition (PiCTL 2020)	1 <sup>st</sup> October 2019	5 <sup>th</sup> October 2019

7.	Centre for Academic Development (CADE), UPM	Jury	PUTRA InnoCreative Award	5 <sup>th</sup> October 2019	9 <sup>th</sup> October 2019
8.	Universiti Tun Hussein Onn Malaysia	Judge	Research and Innovations (R&I) Festival	2016	2017

### RESEARCH GRANTS

<i>Role</i>	<i>Source</i>	<i>Status</i>	<i>Quantity</i>	<i>Funding Total (RM)</i>	<i>Note</i>
<b>Project Leader/ Principal Investigator (PI)</b>	International	Completed	1	254,000	By Air Force Office of Scientific Research (AFOSR), United States
	International	Ongoing	2	262,000	- By Air Force Office of Scientific Research (AFOSR), United States - By National Science and Technology Development Agency, Thailand
	Industry (Local)	Completed	2	136,063.73	By Lembaga Hasil Dalam Negeri
	Industry (Local)	Ongoing	1	865,991	By Academy of Sciences Malaysia
	MoHE	Completed	1	104,300	1 FRGS
	MoHE	Ongoing	1	148,860	1 MRUN
	UPM	Completed	6	231,000	1 Pre-commercialisation grant 4 Fundamental Projects (Putra, IPM, RUGS) 1 Postgraduate Research Grant
	UPM	Ongoing	1	150,000	Inisiatif Strategik TNCPI
<b>Total</b>			<b>15</b>	<b>2,152,215</b>	
<b>Co-researcher</b>	International	Completed	1	314	By Universitas Telkom, Indonesia
	International	Ongoing	0	0	-
	Industry (Local)	Completed	3	256,000	- By CyberSecurity Malaysia Sdn Bhd - By Bahagian Pengurusan Kemasukan Pelajar, Jabatan Pendidikan Tinggi, MoHE - 2 By Bahagian Pengurusan Kemasukan Akademik, Jabatan Pendidikan Tinggi, MoHE
	Industry (Local)	Ongoing	2	120,000	- By Bahagian Kemasukan Pelajar ke IPTA, Jabatan Pendidikan Tinggi, MoHE - Science Fund
	MoHE	Completed	5		1 LRGS 1 MRUN 1 PRGS 1 FRGS 1 ERGS
	MoHE	Ongoing	1	102,700	1 FRGS
	UPM	Completed	5	128,000	1 IPM 3 GIPP 1 Putra 1 Pre-Commercialisation
	UPM	Ongoing	0	0	-
<b>Total</b>			<b>17</b>	<b>607,014</b>	

**Project Leader/Principal Investigator (PI) Number of projects : 15 (10 Completed, 5 Ongoing)**

**Amount = RM 2,152,215**

**International: 3, Industry: 3, MoHE: 2, UPM: 7**

No.	Project Title	Role	Year	Project Type	Source of fund	Value	Status
1.	Digitalisation and IoT Programme for Biodiversity	Principal Researcher	2022-2025	Industry	Academy of Sciences Malaysia (ASM)	865,991	Ongoing
2.	Digital Twin Prototype for Integrated Multi-Enterprise Agricultural Monitoring Mechanism	Principal Researcher	2022-2023	Geran Putra Berkumpulan (Program Strategik TNCPI)	Universiti Putra Malaysia	150,000	Ongoing
3.	Interactive Machine Learning based on Deep Reinforcement Learning and Generative Adversarial Network Hybrid for Digital Twin	Principal Researcher	2021-2024	Industry	Air Force Office of Scientific Research (AFOSR), United States	USD 60,000 (RM 254,000)	Ongoing
4.	Back to Work Better	Principal Investigator	June - December 2021	Industry	Inclusive Science Leadership Program for Early-Mid-Career Researchers in APEC (APEC-SLP)	USD 2,000 (RM 8,300)	Ongoing
5.	Kajian Keberkesanan Integrasi Pangkalan Data Bantuan Sara Hidup	Sub-Project Leader (Technology)	2020-2021	Industry	Inland Revenue Board of Malaysia (LHDNM)	RM 89,663.73 (Total Funding: RM 891,356.30)	Completed
6.	Dashboard Analitik Bantuan Sara Hidup	Sub-Project Leader (Technology)	2021	Industry	Inland Revenue Board of Malaysia (Lembaga Hasil Dalam Negara, LHDNM)	RM 46,400	Completed
7.	Deep Recurrent Q-Network Approach for Multi Objective Markov Decision Process in Partially Observable Environment	Principal Researcher	2018-2021	Industry	Air Force Office of Scientific Research (AFOSR), United States	USD 60,000 (RM 254,000)	Completed

8.	Enhancing Education for Human Capital Development through Establishing Future Learning Ecosystem	Sub-Project Leader (Technology)	2018-2021	Malaysia Research University Network Grant (MRUN)	Ministry of Higher Education	RM 148,860 (Grant Total: RM467,500)	Ongoing
9.	Review and Rating Inference Method to Improve Collaborative-Filtering based Recommendation System	Principal Researcher	2018-2021	Inisiatif Putra Siswazah	Universiti Putra Malaysia	RM 20,000	Completed
10.	Development of Teaching and Learning Innovation Guideline based on Best-Practices Analysis Towards the Transformation of Teaching and Learning Delivery	Principal Researcher	2018-2020	Innovation in Teaching and Learning Research Grant (GIPP)	Universiti Putra Malaysia	RM 20,000	Completed
11.	Self-Adaptive Model to Improve Disambiguty of Linguistics and Conceptual Mapping in Semantic Question Answering	Principal Researcher	2013-2016	Fundamental Research Grant Scheme (FRGS)	, Ministry of Higher Education	RM 104,300	Completed
12.	VKer: Visualization of Knowledge Recap, Research University Grant Scheme	Principal Researcher	2011-2013	Inisiatif Putra Muda (IPM)	Universiti Putra Malaysia	RM 30,000	Completed
13.	Conversational system for museum tour planning personalization and recommendation	Principal Researcher	2012-2014	Research University Grant Scheme (RUGS)	Universiti Putra Malaysia	RM 12,500	Completed
14.	Market Validation of Online Reputation Meter	Principal Researcher	2014-2015	Pre-Commercialisation Grant	Universiti Putra Malaysia	RM 98,500	Completed
15.	Multi-Granular Temporal Abstraction Representation Framework to Improve Clinical Data Analysis	Principal Researcher	2013-2015	Inisiatif Putra Muda (IPM)	Universiti Putra Malaysia	RM 50,000	Completed

**Co-researcher Number of projects: 17 (16 Completed, 1 Ongoing) Amount = RM 607,014**  
**International:1, Industry: 5, MoHE: 6, UPM: 5**

No.	Project Title	Role	Year	Project Type	Source of fund	Value	Status
1.	A data integration model towards auto mapping of learning analytics from heterogeneous platforms by ontology design alignment	Co-Researcher	2021-2024	FRGS	Ministry of Higher Education	RM 102,700	Ongoing
2.	Strategic Integrated Measure on Advocating IDEAS2: A Comprehensive Fundamental, Technical and Public Health Approaches	Co-Researcher	2019-2021	MRUN	Ministry of Education	RM 400,000	Completed
3.	Kajian, Pemurnian dan Penyelarasan Pelaksanaan Dasar e-Pembelajaran Negara 2.0 (DePAN 2.0) di IPTA	Co-Researcher	Jan 2019-June 2019	Industry	Department of Higher Education, Ministry of Education	RM 60,000	Completed
4.	Conceptualising a Linguistic and Rhetorical Move Prototype of Best Practices in Medical Learners' Oral Case Presentation	Co-Researcher	2018-2021	Geran Putra	Universiti Putra Malaysia	RM 53,000	Completed
5.	Artificial Intelligence in Business Intelligence for Improving Food and Beverages Customer Service	Co-Researcher	2018-2021	Pre-Commercialisation Grant	Universiti Putra Malaysia	RM 20,000	Completed
6.	Envisioning Putra Future Classroom for UPM Smart Campus: Early Prediction of At-Risk Students using Learning Analytics	Co-Researcher	2018-2021	GIPP	Universiti Putra Malaysia	RM 20,000	Completed
7.	Envisioning Putra Future Classroom Ecosystem For Upm Smart Campus: Development Of Transformative Curriculum Management System For Customized T&L Based On Content Knowledge, Task-Based Pedagogy, User Needs And Experiences	Co-Researcher	2018-2021	GIPP	Universiti Putra Malaysia	RM 20,000	Completed
8.	Integrating Interprofessional Simulation-based Obesity Education into the Virtual World for Health Profession Students	Co-Researcher	2018-2021	GIPP	Universiti Putra Malaysia	RM 20,000	Completed
9.	Forecasting Computational-based Emission Factors Analysis from Forest Fires in Indonesia	Co-Researcher	2018-2019	International	Universitas Telkom, Indonesia	Rp 1,120,000 (RM 314)	Completed

10.	Kajian Penyeragaman Saluran Kemasukan Ke Universiti Bagi Program Sarjana Muda	Co-Researcher	Nov 2018 – Dec 2020	Industry	Department of Higher Education, Ministry of Education	RM 120,000	Completed
11.	National Integrated Information Security Threat Factor Profiling	Co-Researcher	2016	Industry	CyberSecurity Malaysia Sdn Bhd	RM 256,000	Completed
12.	Hybrid Kernel and Sentiment Analysis Methods for Accurate Stock Anticipation in Financial News	Co-researcher	2014-2016	FRGS	Ministry of Higher Education	RM 82,800	Completed
13.	Natural Language Interface to Quran Ontology: Towards a new Quranic education platform in Malaysia	Co-researcher	2012-2014	eScience	Ministry of Science Malaysia	RM 149,000	Completed
14.	Towards Crime Analysis using Sentiment Mining to Forecast Future Occurrences in Crime Series, Exploratory Grant Scheme	Co-researcher	2012-2014	ERGS	Ministry of Higher Education Malaysia	RM 70,000	Completed
15.	Logical Semantic Structured Language Model for Knowledge-Based Society, Long-term Grant Scheme	Co-researcher	2012-2014	LRGS	Ministry of Higher Education Malaysia	RM 250,416	Completed
16.	An Enhanced Light-weight Ontology Competency Checker, Prototype Research Grant Scheme	Co-researcher	2012-2014	PRGS	Ministry of Higher Education Malaysia	RM 188,100	Completed
17.	Semantic Concepts Extraction in Sports Video, Research University Grant Scheme	Co-researcher	2012-2014	Inisiatif Putra Muda	Universiti Putra Malaysia	RM 15,000	Completed

## PUBLICATION

**Cited Journal: 47 (29 Senior Author, 18 Co-Author), Non-cited journal: 13 (7 Senior Author, 6 Co-Author), Books: 2, Policy Papers: 16, Chapter in Book: 8, Proceedings: 57, Others: 12**

<i>Cited Journal (Senior Author)</i>	<ol style="list-style-type: none"> <li>Keat, E. Y., <b>Sharef, N. M.</b>, Yaakob, R., Kasmiran, K. A., Marlisah, E., Mustapha, N., Zolkepli, M. (2022), "Multi-Objective Deep Reinforcement Learning for Recommendation Systems," in IEEE Access, 2022, doi: 10.1109/ACCESS.2022.3181164.</li> <li>Palasundram, K., <b>Sharef, N. M.</b>, Kasmiran, K. A., Azman, A., (2022), SEQ2SEQ++: A Multitasking-Based Seq2seq Model to Generate Meaningful and Relevant Answers, IEEE Access, vol. 9, p.164949-164975</li> <li>Al Ali, M., <b>Sharef, N.</b>, Murad, M. A. A., Hamdan, H., and Husin, N. A., (2021), "Multitasking Learning Model Based on Hierarchical Attention Network for Arabic Sentiment Analysis Classification", Electronics, 11(8), 1193</li> <li>Al-Qasem, A. I. A., <b>Sharef, N. M.</b>, Sulaiman, M. N., Mustapha, N., (2020), "Latent based Temporal Optimization Approach for Improving the Performance of Collaborative Filtering", PeerJ Computer Science 6:e331 <a href="https://doi.org/10.7717/peerj-cs.331">https://doi.org/10.7717/peerj-cs.331</a></li> <li>Palasundram, K., <b>Sharef, N. M.</b>, Kasmiran, K. A., Azman, A., (2020), "Enhancements to the Sequence-to-Sequence Based Natural Answer Generation Models", IEEE Access, 8(1), pp. 45738 - 45752</li> <li>Zahid, A., <b>Sharef, N. M.</b>, Mustapha, A., (2020), "Normalization-based Neighborhood Model for Cold Start Problem in Recommendation System", International Arab Journal of Information Technology (IAJIT), May 2020, No. 3</li> </ol>
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8. Nilashi, M., Ahani, A., Esfahani, M. D., Yadegaridaehkordi, E., Samad, S., Ibrahim, O., **Sharef, N. M.**, Akbari, E., (2019), "Preference learning for eco-friendly hotels recommendation: A multi-criteria collaborative filtering approach", Journal of Cleaner Production, 215(April), pp. 767-783
9. **Sharef, N. M.**, Husin, N., Kasmiran, K. A., Ninggal, M. I., (2019), "Temporal Trends Analysis for Dengue Outbreak and Network Threats Severity Prediction Accuracy Improvement", Journal of Digital Information Management, 17(3), pp. 122-132
10. **Sharef, N.M.**, Jacob, D.W., Hayashi, M., (2019), "Open science cyber-infrastructure framework for next generation disaster analytics", International Journal of Innovative Technology and Exploring Engineering, 8(8), pp. 149-160.
11. Khairudin, N., **Sharef, N.M.**, Noah, S. A. M., Mustapha, N., (2019), "Tensorized Neural Network for Multi-Aspect Rating-Based Recommendation", International Journal of Recent Technology and Engineering, 8(2S11), pp. 547-551.
12. Palasundram, K., **Sharef, N. M.**, Nasharuddin, N. A., Kasmiran, K. A., Azman, A., (2019), "SEQ2SEQ Models Performance for Education Chatbot", International Journal for Educational Technology, 24(14), pp. 56-68.
13. Shafie, A. A., **Sharef, N.**, Murad, M. A. A., Azman, A., (2019), "Hybrid Approach Using Rule-based and Naïve Bayes Classifier for Aspect Term and Sentiment Word Extraction of Customer Review", International Journal on Advanced Science, Engineering and Information Technology
14. Khairudin, N., **Sharef, N. M.**, Mustapha, N., Noah, S. A. M., (2018), "Embedded Learning For Leveraging Multi-Aspect In Rating Prediction Of Personalized Recommendation", Malaysian Journal of Computer Science , Dec 2018, 31-47.
15. Ihlayyel, H., **Sharef, N. M.**, Nazri, M. Z., Bakar, A. A., (2018), "An Enhanced Feature Representation based on Linear Regression Model for Stock Market Prediction", Intelligent Data Analysis, 22(1):45-76
16. Alqurneh, A., Mustapha, A., **Sharef, N. M.**, (2020), "A Partitioning-based Approach for Clustering COVID-19 Drugs and Co-Medication for Safe Use", International Journal of Integrated Engineering, 12(5), pp. 224-232
17. R. Rosli, **Sharef, N. M.**, (2018), "Empirical Investigation of Feature Sets Effectiveness in Product Review Sentiment Classification", Journal of Science and Technology, 25 (S): 125 - 132 (2017)
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27. **Sharef, N.M.**, Halin, A. A., Mustapha, N., (2013), "Modelling Knowledge Summarization By Evolving Fuzzy Grammar", *Am. J. Applied Sci.*, 10, pp. 606-614.
28. **Sharef, N.M.**, Trevor, M., Azmi-Murad, M.A., (2013), "Conceptually Related Lexicon Clustering Based On Word Context Association Mining", *International Journal of Information Processing and Management*, Vol. 4, No. 3, pp. 40-50.
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B., Hamdan, H., <b>Sharef, N. M.</b>, Sulaiman, M. N., Yaakob, R., (2020), "Multi-objective clustering algorithm using particle swarm optimization with crowding distance (MCP SO-CD)", <i>International Journal on Advanced Science, Engineering and Information Technology</i>, 6(1), pp. 72-81.</li> <li>5. R. T. Mohammed, R. Yaakob, A. A. Zaidan, <b>N. M. Sharef</b>, R. H. Abdullah, B. B. Zaidan and K. A. Dawood, (2020), "Review of the Research Landscape of Multi-Criteria Evaluation and Benchmarking Processes for Many-Objective Optimization Methods: Coherent Taxonomy, Challenges and Recommended Solution", <i>International Journal of Information Technology &amp; Decision Making</i>, 19(06), pp. 1619-1693</li> <li>6. Othman, K. A., Sulaiman, M. N., Mustapha, N., <b>Sharef, N. M.</b>, (2018), "Local Outlier Factor in Rough K-Means Clustering", <i>Journal of Science and Technology</i>, 25 (S): 125 - 132 (2017)</li> <li>7. Adam, A. M., Kamaruddin, A., <b>Sharef, N. M.</b>, Din, J., Murad, M. A. A., (2018), "A Framework to Facilitate Collaboration in Employability Ecosystem in Malaysia", <i>Journal of Telecommunication, Electronic and Computer Engineering</i>, 9(3), pp. 103-108.</li> <li>8. Riyadh, M., Mustapha, N., Sulaiman, N., <b>Sharef, N.M.</b>, (2017), "ONF-TRS: On-line noise filtering algorithm for trajectory segmentation based on MDL threshold", <i>Journal of Artificial Intelligence</i>, 10(1), pp. 42-48.</li> <li>9. Abdulrazzaq, M. R., Mustapha, N., Sulaiman, M. N., <b>Sharef, N.M.</b>, (2017), "CC_TRS: Continuous clustering of Trajectory Stream Data Based on Micro Cluster life", <i>Mathematical Problems in Engineering</i>, 7523138</li> <li>10. Othman, K. A., Sulaiman, M. N., Mustapha, N., <b>Sharef, N.M.</b>, (2017), Local outlier factor in rough K-means clustering", <i>Pertanika Journal of Science and Technology</i>, 25(56), pp. 211-222</li> <li>11. Sidi, F., Marzanah, A.J., Affendey, L.S., Ishak, I., <b>Sharef, N.M.</b>, Zolkepli, M., Ming, T.M., Mokthi, M.F.A., Daud, M., Zainuddin, N.B., Hamid, R.A., (2017), "A comparative analysis study on information security threat models: A propose for threat factor profiling", <i>Journal of Engineering and Applied Science</i>, 12(3), 548-554</li> <li>12. Iqbal, R., Murad, M. A. A., Mustapha, A., <b>Sharef, N. M.</b>, (2017), "An ontology development approach using concept maps driven by automatic term extraction", <i>International Journal of Information and Communication Technology</i>, 10(1), pp. 51-65.</li> <li>13. Foroozan, S., Murad, M. A. A., <b>Sharef, N. M.</b>, Latiff, A. R. A., (2016), "Sentiment Classification of Financial News Using Statistical Features", <i>International Journal of Pattern Recognition and Artificial Intelligence (IJPRAD)</i>, 31(3)</li> <li>14. Zin, H. M., Mustapha, N., Murad, M. A. A., <b>Sharef, N. M.</b>, (2016), "Term Weighting Scheme Effect in Sentiment Analysis of Online Movie Reviews", <i>Advanced Science Letters</i>, 24 (2). pp. 933-937</li> <li>15. Madzin, H., Zainuddin, R., <b>Sharef, N. M.</b>, (2015), "IFM3IRS: Information fusion retrieval system with knowledge-assisted text and visual features based on medical conceptual model", <i>Multimedia Tools and Application</i>, 74(11), pp.3651-3674.</li> <li>16. Ahmad, O., Hyder, I., Iqbal, I., Murad, M. A. A., Mustapha, A., <b>Sharef, N.M.</b>, Mansoor, M., (2013), "A Survey of Searching and Information Extraction on a Classical Text Using Ontology-based semantics modeling: A Case of Quran", <i>Life Science Journal</i> 2013, 10(4), pp. 1370-1377</li> <li>17. Iqbal, R., Murad, M.A.A., <b>Sharef, N.M.</b>, (2013), "Emerging And Prospering Trends In Crime Analysis And Investigation Systems: A Literature Review", <i>Journal of Theoretical and Applied Information Technology</i>, 47(1), pp. 53-59</li> <li>18. 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Non-Cited Journal (Senior Author)	<ol style="list-style-type: none"> <li>1. Al-Qasem, A. I. A., <b>Sharef, N. M.</b>, Sulaiman, M. N., Mustapha, N., (2018), "Temporal-Based Approach to Solve Item Decay Problem in Recommendation System", <i>Adv. Sci. Lett.</i> 24, 1421–1426</li> <li>2. <b>Sharef, N. M.</b>, Noura, M., (2016), "Linguistic Rule-Based Methods for the Extraction of Medical Summaries to Benefit Patients Progression Tracking", <i>Journal of Engineering and Applied Sciences</i>, 11(3), pp. 408-413</li> <li>3. <b>Sharef, N.M.</b>, Mohd Noah, S. A., (2013), "Natural Language Query Translation for Semantic Search", <i>International Journal of Digital Content Technology and its Applications</i>, 7(13), pp. 53-63</li> <li>4. <b>Sharef, N.M.</b>, Mohd Noah, S. A., Murad, M. A. A., (2013), "Issues and Challenges in Semantic Question Answering through Natural Language Interface", <i>Journal of Next Generation of Information Technology</i>, 4(7):50-60</li> </ol>

	<ol style="list-style-type: none"> <li>5. Fathalipour, M., <b>Sharef, N.M.</b>, (2013), "Process-Oriented Ontology Building Methodology for Solving Unbalanced Competency of the Ontology", <i>International Journal of Advancements in Computing Technology</i>, pp. 24-31</li> <li>6. Milea, V., Almeida, R.J, <b>Sharef, N.M.</b>, Kaymak, U., Frasinca, F., (2012), "Computational Content Analysis of European Central Bank Statements", <i>International Journal of Computer Information Systems and Industrial Management Applications</i>, vol. 4, pp. 628 -640.</li> <li>7. Sharef, N.M, Selamat, M.H., Sulaiman, M.N, Wan Ab. Rahman, W.N., (2008)., "KSFaci: Facilitating Knowledge Sharing using Profiler and Recommender Agent", <i>International Journal of Computer Science and Network Security</i>, 8(11):80-87.</li> </ol>
<i>Non-Cited Journal (Co-Author)</i>	<ol style="list-style-type: none"> <li>1. Mansor, E. M., Mokhtar, M. M., <b>Sharef, N. M.</b>, (2022), Exploring the Acceptance of 360° Videos in Virtual Reality Settings for Teaching and Learning, <i>Jurnal Teknologi Maklumat dan Multimedia Asia-Pasifik</i>, 11(1), pp. 78-89</li> <li>2. Mokhtar, M. M., Jamil, M., Mansor, E. I., <b>Sharef, N. M.</b>, Khambari, M. N. M., (2021), Inovasi Video Pengajaran 360 Darjah: Penerimaan Bakal Guru Bahasa Melayu Terhadap Penggunaan Teknologi Realiti Maya Dan (Aplikasi Thinglink 360- Degree Instructional Video Innovation: Preservice Malay Language Teachers' Acceptance Of The Use Of Virtual Reality Technology And Thinglink Application), <i>International Journal of Modern Education</i>, 3(10), pp. 19-31</li> <li>3. Rashed, A. B., Hamdan, H., Sulaiman, M. N., <b>Sharef, N. M.</b>, Yaakob, R., (2018), "Multi-Objective PSO-fuzzy Optimization Approach to Improve Interpretability and Accuracy in Medical Data", <i>International Journal of Engineering &amp; Technology</i>, 7 (4.31), pp. 316-321</li> <li>4. Zin, H. M., Mustapha, N., Murad, M. A. A., <b>Sharef, N. M.</b>, (2018), "Term Weighting Scheme Effect in Sentiment Analysis of Online Movie Reviews", <i>Adv. Sci. Lett.</i> 24, 933–937</li> <li>5. Moghaddam, M. G., Mustapha, N., Mustapha, A., <b>Sharef, N.M.</b>, and Elahian, A., (2014), "A Review On Similarity Measurement Methods In Trust-Based Recommender Systems", <i>International Journal of Information Science and Management</i>, pp. 13-22</li> <li>6. Halin, A.A, <b>Sharef, N.M</b>, Jantan, A., (2013), "Semantic Shot Classification in Soccer Videos via Playfield Ratio and Object Size Considerations", <i>Journal of Convergence Information Technology (JCIT)</i>, Vol 8(4).</li> </ol>
<i>Books/ Monographs</i>	<ol style="list-style-type: none"> <li>1. Technology for Future Learning Ecosystem, (2021), <b>Sharef, N.M.</b>, Mansor, E. I., Omar, M. K., Murad, M. A. A., Nasharuddin, N. A., Shahbodin, F., Arshad, N. I., Samian, N. e-ISBN: 978-967-2640-10-3</li> <li>2. Begitulah Sang Suria: Daripada Cahaya Kepada Elektrik, (2021), Academy of Sciences Malaysia, Malaysia</li> </ol>
<i>Policy</i>	<ol style="list-style-type: none"> <li>1. General Guidelines For Drive-Through &amp; Mobile Vaccine Administration Centres, (2021), The Special Committee of Ensuring Access to COVID-19 Vaccine Supply (JKJAV), e-ISBN: 978-983-2915-60-7, p. 1-70</li> <li>2. Garis Panduan Pengudaraan Pusat Pemberian Vaksin (PPV), (2021), The Special Committee of Ensuring Access to COVID-19 Vaccine Supply (JKJAV)</li> <li>3. Garis Panduan Operasi Pusat Pemberian Vaksin (PPV) di Rumah Ibadat, (2021), The Special Committee of Ensuring Access to COVID-19 Vaccine Supply (JKJAV)</li> <li>4. Laporan Pembangunan Kaedah Pengiraan Merit Baharu Kemasukan Ke Institusi Pendidikan Tinggi Awam (IPTA) Dan Institusi Latihan Kemahiran Awam (ILKA) Bagi Program Pengajian Lulusan SPM Mulai Sesi Akademik 2022/202, (2020), Kementerian Pengajian Tinggi (KPT) Malaysia</li> <li>5. Garis Panduan Microcredentials UPM, (2021), Zariat, A. R. M., Jaafar, W., M., <b>Sharef, N. M.</b>, Zawawi, D., A'zim, A. A. A., Man, N. A., Ideris, M. M. F. A., Mohamad, Y., Abdullah, A. N, Pusat Pembangunan Akademik, Universiti Putra Malaysia, e-ISBN 978-967-19652-2-1</li> <li>6. Kajian Pelaksanaan dan Pemurnian Dasar e-Pembelajaran Negara, Salam, (2021), S., <b>Sharef, N.M.</b>, Ali, N., Bakar, N., Ismail, S. M., Din, R., Said, N. H., M., Othman, M. F. I., Shaarani, A. S., Kementerian Pengajian Tinggi. ISBN: 978-983-3225-53-8</li> <li>7. Booklet Inisiatif Pemerikasaan Pembelajaran Global Dalam Talian, (2021), <b>Sharef, N. M.</b>, Jaafar, W., M., Zariat, A. R. M., Man, N. A., Ideris, M. M. F. A., Azmi, M. F., Pusat Pembangunan Akademik, Universiti Putra Malaysia, ISBN: 978-967-1965-20-7</li> <li>8. Pindah Kredit MOOC UPM, (2021), Pusat Pembangunan Akademik (CADE), UPM.</li> <li>9. Garis Panduan Pelaksanaan Pembelajaran Teradun Gantian (Pembelajaran Dalam Talian), (2020), Kamaludin, A., Saad, W. Z., Rashid, M. I. A., Husain, R., Wahab, N., Ming, G. L., Shukor, N. A., <b>Sharef, N. M.</b>, Baba, S., Shamsudin, S., Kementerian Pengajian Tinggi, ISBN: 978-983-3225-31-6</li> <li>10. Garis Panduan Pembangunan dan Penawaran Kursus PutraMOOC, (2020), Pusat Pembangunan Akademik (CADE), Universiti Putra Malaysia, ISBN 978-967-960-474-0</li> <li>11. UPM Virtual Classroom and e-Assessment Guideline, (2020), Pusat Pembangunan Akademik (CADE), Universiti Putra Malaysia</li> <li>12. Pelaksanaan Pembelajaran Teradun Gantian UPM, (2020), Pusat Pembangunan Akademik (CADE), UPM.</li> <li>13. National Policy on Inclusive Open Educational Resources (iOER), (2019), Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi (KPT) Malaysia.</li> </ol>

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<i>Chapter in book</i>	<ol style="list-style-type: none"> <li>1. Sharef, N. M., (2021), Leveraging Data Science for Insightful Leadership, Women Who Lead: Timeless Life, Career, and Business Secrets from Inspiring Women Around the World, ISBN: 979-8490188902, p. 1-169</li> <li>2. COVID-19 Agen Transformasi Pendigitalan Pengajaran dan Pembelajaran, (2021), Zakaria, M. , Rani, Z. A. M., <b>Sharef, N. M.</b>, Man, N. A., Jaafar, W. M. W., Azmi, N. A., Impak COVID-19 dan Prakarsa UPM, Perpustakaan Negara Malaysia, ISBN 978-967-2988-49-3.</li> <li>3. Al-Hadi, I. A. A., <b>Sharef, N. M.</b>, Sulaiman, M. N., Mustapha, N., (2018), "Temporal based Factorization Approach for Solving Drift and Decay in Sparse Scoring Matrix", <i>Advances in Intelligent Systems and Computing</i>, pp. 34-350</li> <li>4. AlAli, M., <b>Sharef, N. M.</b>, Hamdan, H., Murad, M. A. A., Husin, N. A., (2018), "Multi-Layers Convolutional Neural Network for Twitter Sentiment Ordinal Scale Classification", <i>Advances in Intelligent Systems and Computing</i>, pp. 446-456</li> <li>5. Sharef, N. M., (2017), "Diari Seorang Dr". Srikandi PhD Cerita, Cita-cita dan Cabaran, ISBN: 978-967-5415-78-4</li> <li>6. <b>Sharef, N.M.</b>, and Haghanikhameneh, F., (2014), "Content-Based Analysis Method For Sentiment Scoring In Microblogging Mining", <i>Frontiers in Artificial Intelligence and Applications: New Trends in Software Methodologies, Tools and Techniques</i>, pp. 398-414</li> <li>7. <b>Sharef, N.M.</b>, Kasmiran, K.A., (2012), "Examining Text Categorization Methods for Incidents Analysis", <i>Intelligence and Security Informatics, Lecture Notes in Computer Science Volume 7299</i>, 2012, pp 154-161</li> <li>8. <b>Sharef, N.M.</b>, (2012), "Location Recognition with Fuzzy Grammar", <i>Communications in Computer and Information Science</i>, Vol. 295, 2012, pp 254-261</li> </ol>
<i>Proceedings</i>	<ol style="list-style-type: none"> <li>1. Goh, K. Y., Baharom, S., Din, J., <b>Sharef, N. M.</b>, (2022), The Development of an Android Automated Testing Tool: CrashDroid, Applied Informatics International Conference (AiIC2022), Serdang, in press</li> <li>2. M. A. Azmi Murad, A. F. Shah Jahan, <b>N. Mohd Sharef</b>, H. Ab Jalil, I. A. Ismail &amp; M. Z. Mohd Noor, (2021), "An Analytics Dashboard For Personalised E-Learning: A Preliminary Study", Proceedings of the 8th International Conference on Computational Science and Technology, pp. 855–866</li> <li>3. Khairudin, N., <b>Sharef, N. M.</b>, Azizan, A., (2021), "Review Representation Rearing and Profiling for Recommendation System", 2021 2nd International Conference on Artificial Intelligence and Data Sciences (AiDAS), Ipoh</li> <li>4. <b>Sharef, N. M.</b>, Murad, M. A. A., Omar, M. K., Nasharuddin, N. A., Mansor, E. I., Rokhani, F. Z., (2021), "Personalized Learning Based on Learning Analytics and Chatbot", 1st Conference On Online Teaching For Mobile Education (OT4ME), Alcalá de Henares (virtual)</li> <li>5. <b>Sharef, N. M.</b>, Akbar, M. D., Learning Analytics of Online Instructional Design during COVID-19: Experience from Teaching Data Analytics Course, International Conference on Advancement in Data Science, E-learning and Information Systems (ICADEIS 2021), 2021, Online</li> <li>6. Nasharuddin, N. A., <b>Sharef, N. M.</b>, Mansor, E. I., Samian, N., Murad, M. A. A., Omar, M. K., Arshad, N. I., Shahbodan, F., Marhaban, M. H., "Designing an Educational Chatbot: A Case Study of CikguAIBot", Fifth International Conference on Information Retrieval and Knowledge Management (CAMP'21), 2021, Online</li> <li>7. Mokhtar, M.M., Jamil, M., Mansor, E. I., <b>Sharef, N. M.</b>, Khambari, M. N. M., Tahap Penerimaan Bakal Guru Bahasa Melayu Terhadap Penerapan Teknologi Realiti Maya (Virtual Reality) Dan Aplikasi ThingLink Dalam Penghasilan Bahan Inovasi Pengajaran, International Virtual Conference On Social Sciences, Education and Innovation 2021 (IVCOSEI 2021), pp. 82-92, 2021, Online</li> <li>8. Man, H. C., <b>Sharef, N. M.</b>, Singh, M. C., (2021), PutraCGOL Experience Towards Internationalization in Teaching and Learning, 1st Asian International Mobility for Students (AIMS) International Conference (AIC) 2021, Online</li> <li>9. Keat, E. Y., <b>Sharef, N. M.</b>, Kasmiran, K. A., Yaakob, R., "LSTM Based Recurrent Enhancement of DQN for Stock Trading", 2020 IEEE Conference on Big Data &amp; Analytics (ICBDA2020), 2020, Online</li> <li>10. <b>Sharef, N.M.</b>, Mustapha, A., Azmi, M.N., Nordin, R., "Basketball Players Performance Analytic as Experiential Learning Approach in Teaching Undergraduate Data Science Course", International Conference on Advancement in Data Science, E-learning and Information Systems (ICADEIS 2020), 2020, Bali</li> <li>11. <b>Sharef, N.M.</b>, Murad, M. A. A., Mansor, E. I., Nasharuddin, N. A., Omar, M. K., Samian, N., Arshad, N. I., Ismail, W., Shahbodan, F., "Intelligent Learning Experience Simulator based Learning Analytic towards Facilitating Personalised Learning", International Conference on Advancement in Data Science, E-learning and Information Systems (ICADEIS 2020), 2020, Bali</li> </ol>

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14. Omar, M. K., Yunus, A. S. M., Ismail, I. A., **Sharef, N. M.**, Murad, M. A. A., "What Constitutes Effective Learning? An Introduction to Talaqqi Framework", 5th International Conference On Educational Research And Practice (ICERP2019), Putrajaya, 2019, Online
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24. Helmee, N. H., **Sharef, N.M.**, "Investigation of Content-based Features in Sentiment Analysis Performance", The 9th International Conference on IT in Asia (CITA15), 2015, Kuching
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31. Zahid, A., and **Sharef, N.M.**, "Normalization And Matrix Factorization-Based Methods For Recommender System", Third International Conference On Computer Science & Computational Mathematics (ICCSM 2014), pp. 382-387, 2014, Langkawi
32. Moghaddam, M. G., Mustapha, N., Mustapha, A., **Sharef, N.M.**, and Elahian, A., "AgeTrust: A New Temporal Trust-Based Collaborative Filtering Approach", 2014 International Conference on Information Science and Applications (ICISA), pp. 1-4, 2014, Seoul
33. Moghaddam, M. G., Mustapha, N., Mustapha, A., **Sharef, N.M.**, and Elahian, A., "A Review On Trust-Based Recommender Systems", 8th International Conference On E-Commerce In Developing Countries, 2014, Mashhad.

34. **Sharef, N.M.**, Noah, S.A M., Kadir, R. A., Azman, A., "A Computational Method To Answer Semantic Questions With Constraints", Proceedings of the International Conference on Computing and Informatics, 2013, 28-29 August, pp. 371-37, Kuching
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37. Pesaranghader, A., Pesaranghader, A., Mustapha, N., **Sharef, N.M.**, "Improving Multi-term Topics Focused Crawling by Introducing Term Frequency-Information Content (TF-IC) Measure", 3rd International Conference on Research and Innovation in Information Systems – 2013 (ICRIIS'13), 2013, Kajang
38. Moghaddam, M.G., Mustapha, N., Mustapha, A., and **Sharef, N.M.**, "A Temporal-Focused Trustworthiness to Enhance Trust-based Recommender Systems", 13th International Conference on Intelligent Systems Design and Applications (ISDA 2013), pp. 219-223, 2013, Kuala Lumpur
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44. Che Pa, N., **Sharef, N.M.**, And Khalid, F., "Final Year Project In Computer Science Undergraduate Curriculum: Implementation And Challenges", International Engineering Education Conference 2011, 2011, Madinah.
45. Martin, T., **Sharef, N.M.**, "Case Studies with Evolving Fuzzy Grammars", SSCI 2011 EAIS - 2011 IEEE Workshop on Evolving and Adaptive Intelligent Systems, pp. 39-45, 2011, Paris.
46. Milea, V., **Sharef, N.M.**, Martin, T., Almeida, R.J., Kaymak, U., Frazincar, F., Prediction of the MSCI Euro Index Based on Fuzzy Grammar Fragments Extracted from European Central Bank Statements, International Conference on Soft Computing and Pattern Recognition 2010, 2010, Paris.
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48. **Sharef, N.M.**, Martin, T., Shen, Y., "Order Independent Incremental Evolving Fuzzy Grammar Fragment Learner", 9th International Conference on Intelligent Systems Design and Applications, 2009, Pisa.
49. **Sharef, N.M.**, Martin, T., Shen, Y., "Minimal Combination For Incremental Grammar Fragment Learning", IFSA World Congress-EUFLAT Conference 09, pp.909-914, 2009, Lisbon.
50. **Sharef, N.M.**, Martin, T., Shen, Y., "Incremental Evolutionary Grammar Fragments", Proceedings of the UK Workshop on Computational Intelligence (UKCI 2008), pp. 89-94, 2008, Leicester.
51. **Sharef, N.M.**, Selamat, M.H., Sulaiman, M.N., "An Experimental Investigation of Profiler and Recommender agent in the context of Knowledge Sharing Facilitation", Knowledge Management International Conference 2006, 2006, Kuala Lumpur.
52. **Sharef, N.M.**, Selamat, M.H., Sulaiman, M.N., "Personalization And Recommendation For Automatic Interest Identification In Knowledge Sharing Facilitation", VIPSI London 2006, 2006, London.
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55. Mustapha, Aida., **Sharef, N.M.**, "Realiti Pengangguran Graduan ICT", "Proceedings of the National ICT Research Conference, 2004, Johor Bahru.
56. **Sharef, N.M.**, Selamat, M.H., Sulaiman, M.N., "Encouraging Knowledge Sharing with Agent Technology", Information Technology Colloquium (INTEC) 2004, 2004, Serdang.
57. Ming L.L, Ahmad Nazri, M.Z., Mohd Sarim, H., Hamdan, A.R,Nasaruddin, M. F., Mohamed, I, **Sharef, N.M.**, "McPAS : Intelligent Agent for Accounting Modelling", Proceedings of the International Symposium on Information Technology 2003 : ITSIm2003, 2003, Kuala Lumpur.

<i>Other publications</i>	<ol style="list-style-type: none"> <li>1. Laporan Akhir, Kajian Keberkesanan Bantuan Sara Hidup, Lembaga Hasil Dalam Negeri, 2022</li> <li>2. <b>Nurfadhlina Mohd. Sharef</b>, "Keajaiban Sains dalam Memacu Inovasi Malaysia", July 2020, <i>Majalah Sains</i></li> <li>3. <b>Nurfadhlina Mohd. Sharef</b>, "Sihat Sejahtera Melalui Analitis Data Raya", December 2018, <i>Majalah Sains</i></li> <li>4. <b>Nurfadhlina Mohd. Sharef</b>, "AI Mencabar Keupayaan Manusia", May 2018, <i>Al-Islam</i></li> <li>5. <b>Nurfadhlina Mohd. Sharef</b>, "Komunikasi Multiperanti Pintar", January 2014, <i>Dewan Kosmik</i></li> <li>6. <b>Nurfadhlina Mohd. Sharef</b>, "Cabaran Memanfaatkan Data Saiz Besar", August 2013, <i>Dewan Kosmik</i></li> <li>7. <b>Nurfadhlina Mohd. Sharef</b>, "Peranti yang Kreatif dan Pelik", October 2012, <i>Dewan Kosmik</i></li> <li>8. <b>Nurfadhlina Mohd. Sharef</b>, "Teknologi Meramal Masa Hadapan?", September 2012, <i>Dewan Kosmik</i></li> <li>9. <b>Nurfadhlina Mohd. Sharef</b>, "Teknologi Semantik Berasaskan Pengetahuan", June 2012, <i>Dewan Kosmik</i></li> <li>10. <b>Nurfadhlina Mohd. Sharef</b>, "Transformasi Teknologi Maklumat dan Komunikasi", Mei 2012, <i>Dewan Kosmik</i></li> <li>11. <b>Nurfadhlina Mohd. Sharef</b>, "Perlombongan Teks Menganalisis Entri", Mac 2012, <i>Dewan Kosmik</i></li> <li>12. <b>Nurfadhlina Mohd. Sharef</b>, "Bahasa Tabii dan Teks Analisis Pintar", Februari 2012, <i>Dewan Kosmik</i></li> </ol>
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## INTELLECTUAL PROPERTY

1. CikguAIBot (application, storyboard, infographics), 2020
2. Imagineering InnoCreative Educator (online course, storyboard, creative content), 2020
3. A Translation Engine from Natural Language Question to Semantic Query (SPARQL), 2014
4. Sentimetrics Engine and Reputation Meter application, 2014
5. Multi Agent based Recommender System, 2014
6. Framework of Medical Information Retrieval System, 2011
7. IMS: Intelligent Medical Search System, 2011
8. FTCat: Fuzzy Text Categorizer, 2011
9. Framework of Semantic based Fuzzy Text Classifier (FTCat), 2011
10. Semantic Representative Text Learning with Evolving Fuzzy Grammar Algorithm, 2011
11. Semantic based Fuzzy Text Classifier (FRTC), 2011

## SUPERVISION

- a) PhD Graduated as Chairman of Supervision Committee: 4**  
**b) MSc Graduated as Chairman of Supervision Committee: 2**  
**c) PhD Ongoing as Chairman of Supervision Committee: 4**  
**d) MSc Ongoing as Chairman of Supervision Committee: 2**  
**e) PhD Graduated as Member of Supervision Committee: 7**  
**b) MSc Graduated as Member of Supervision Committee: 1**  
**c) PhD Ongoing as Member of Supervision Committee: 7**  
**d) MSc Ongoing as Chairman of Supervision Committee: 1**  
**e) Master in Computer Science Graduated: 6**

PhD Students			
Name of PhD Students and Title of Thesis/Project	Main Supervisor/Co-supervisor	Status (Completed/On-going)	Current Semester
Hazrina Binti Sofian/Adaptive Model For Semantic Question Answering Disambiguation Over Linked Data	<b>Main Supervisor</b> (4 PhD students graduated)	Graduated in 2018	
Ismail Ahmed Al-Qasem/Temporal Integration Based Factorization To Improve Prediction Accuracy Of Collaborative Filtering		Graduated in 2018	
Kulothunkan Palasundram/ Seq2seq++: A Multitasking Based Seq2seq Method To Improve Answer Generation Quality		Graduated in 2022	
Muath Al-Ali/Multi-Tasking based Deep Learning for Arabic Sentiment Analysis		Graduated in 2022	

Nabila Wardah bt Zamani/Interactive Machine Learning for Precision Biodiversity Digital Twin	<b>Main Supervisor</b> (4 PhD students ongoing)	On-going	1
Nurkhairizan Khairudin/Deep Attention Model For Multi-Criteria Recommendation System		On-going	12
Ana Salwa Shafie/Multi-Aspect Sentiment Summarization		On-going	12
Hashimah Mat Sejani/Early Student At-Risk Prediction with Interactive Machine Learning		On-going	6
Somayeh Shojaee, Spam and Spammer Classification	<b>Co-Supervisor</b> (9 PhD students graduated)	Graduated in 2020	
Samaneh Nadali/Sarcasm Detection		Graduated in 2016	
Sepideh Foroozan/Hybrid Kernel and Sentiment Analysis Methods for Accurate Stock Anticipation in Financial News		Graduated in 2017	
Ahmad Mohammed/Stylometric Model to Oath and Oath-like Expressions		Graduated in 2018	
Rizwan Iqbal/Human-Centered Design-based Ontology Engineering Method		Graduated in 2015	
Hani A.K Ihlayyel/An Effective Framework For Stock Price Prediction Based On Financial News Using Dynamic Adaptive Context Search Strategy And Statistical Measures		Graduated in 2018	
Musaab Riyadh Abdul Razzaq/An Efficient Incremental Clustering for Trajectory of Free Moving Objects based on Clusters Life		Graduated in 2018	
Rawia Tahrir/Many Objective Optimization Algorithm		Graduated in 2021	
Batool Alwatben/Multi-objective Clustering Algorithm using Particle Swarm Optimization with Crowding Distance		Graduated in 2022	
Divager Balasubramanian/Diabetic Disease Prediction with Interpretable Neural Network	<b>Co-Supervisor</b> (7 students ongoing)	On-going	4
Ahairul Afza Abdul Wahab/Data Analytics for Diabetes Prediction		On-going	3
Morteza Morghani Moghaddam/Trust-based Recommendation System		On-going	10
Harnani Binti Mat Zin/Explicit-based Sentiment Analysis		On-going	10
Modi Salisu/Text Pre-Processing		On-going	1
Al Shahad Huda Fawzi Abdul Wahab/Deep Neural Network for Image Processing		On-going	2
Mohammed Maher Talal Mohammed/A Proposed Model For Clinical Decision Support Using Adaptive Neuro-Fuzzy Inference System (ANFIS)		On-going	2
MSc Students			
Aafaq Zahid/Effect of Normalization in Improving Accuracy of Recommender Systems	<b>Main Supervisor</b> (2 students graduated)	Graduated in 2015	
Ee Yeo Keat/Multi-Objective Recurrent Deep Q-Learning for Recommendation System		Graduated in 2022	
Asmera Mat Adam/Hybrid-based Framework for Collaborative Employment Recommendation	<b>Co- Supervisor</b> (1 student graduated)	Graduated in 2020	
Master of Computer Science Students			
Ali Marstawi/Ontology-Based Sentiment Analysis and Summarization for Product Reviews	<b>Main Supervisor</b> (6 students)	Completed	2014
Rozilah Rasalay@Rosli/A Hybrid-Based Features Representation Model For Product Review Sentiment Classification		Graduated 2014	2014
Nurdhiya Hazwani Binti Helmee/Opinion Oriented Information Seeking System		Graduated 2014	2014

Fartash Haghani/Content-based Analysis Method for Sentiment Scoring in Microblogging Mining		Graduated 2014	2014
Syarina binti Md Halid/Personalized Recommendation of Tourism Spots using Case-Based Reasoning Technique		Graduated 2014	2014
Rasyidah Azis/Gender Identification for Forensics Analysis		Graduated 2014	2014
<b>Industrial Training</b>			
Aiman Farhan/ Cognitive Decline Prediction Tool at Malaysia Institute of Research for Ageing (MyAgeing)	<b>Main Supervisor</b> (2 students)	Completed	2021
Najiha Ramlan/Prediction of Cognitive Impairment at Malaysia Institute of Research for Ageing (MyAgeing)		Completed	2021

## THESIS EXAMINATION

**Internal Examiner: 9, External Examiner: 22**

No.	Nama Universiti / University Name	Peranan/ Role	Tahap / Level	Tajuk Tesis / Thesis Title	Tahun Lantikan / Appointment Year
1.	Multimedia University (MMU)	External Examiner	PhD	Discriminative Temporal Interest-Based Preference Learning For Semantics-Aware Content-Based Recommendation	2022
2.	Universiti Kebangsaan Malaysia (UKM)	External Examiner	PhD	Phishing Email Classification Using Phishing Feature Embedding With Deep Learning Approach	2022
3.	Universiti Teknikal Malaysia Melaka (UTeM)	External Examiner	PhD	Annotation Scheme Model Improvement Of Sentiment-Annotated Corpus Data For Bahasa Indonesia And Bahasa Melayu	2022
4.	Universiti Utara Malaysia (UUM)	External Examiner	PhD	Data unification model based on homogeneous and heterogeneous data access and transformation	2022
5.	Universiti Kebangsaan Malaysia (UKM)	External Examiner	MSc	Analisis Teks Bagi Pemahaman Imej Dengan Penggunaan Graf Pengetahuan	2022
6.	Universiti Kebangsaan Malaysia (UKM)	External Examiner	PhD	A Hybrid Micro Clustering-Grid Based Approach For Clustering Evolving Data Stream	2021
7.	Universiti Kebangsaan Malaysia (UKM)	External Examiner	PhD	Enhanced Arabic Stemmer Through A Combination Of Root-Based And Light-Based Approaches	2021
8.	Universiti Sains Malaysia	External Examiner	PhD	Modified Multiple Objective Evolution Algorithms Decomposition (MOEA/D) For Continuous Optimization	2021
9.	Universiti Putra Malaysia (UPM)	Internal Examiner	PhD	Predictive Modelling Of Nanofluids Thermophysical Properties Using Machine Learning	2021
10.	International Islamic University Malaysia (IIUM)	External Examiner	PhD	Ontology For Ethical Issues In Social Networking Sites Based On Ibn Khaldun's Thoughts In Al-Muqaddimah	2021
11.	Bharathiar University, India	External Examiner	PhD	Soft Set Theory: A Novel Soft Computing Method For Extracting Interesting Patterns From A Data Repository	2021
12.	Noorul Islam Centre for Higher Education, India	External Examiner	PhD	An Efficient Technique For Information Extraction From Multiple Documents	2021
13.	Universiti Sains Malaysia (USM)	External Examiner	PhD	Cuckoo Optimisation Algorithm With Non-Dominating Sorting Mechanism For Multi-Objective Feature Selection Classification	2020

14.	Universiti Sains Malaysia (USM)	External Examiner	PhD	Evolutionary Word Embedding For Sentiment Classification	2020
15.	Universiti Kebangsaan Malaysia (UKM)	External Examiner	PhD	Adverse Drug Reaction (Adr) Extraction And Medical Sentiment Analysis Through Lexicon Based And Word Embedding Approach	2020
16.	Universiti Putra Malaysia (UPM)	Internal Examiner	PhD	Dominance Relationship Based Skyline Query Framework Over Dynamic And Incomplete Database	2020
17.	Vellore Institute of Technology (VIT), Chennai	External Examiner	PhD	An Aggrandized Framework For Enriching Book Recommendation System	2020
18.	Asia Pacific University of Technology and Innovation (APIIT)	External Examiner	PhD	An Improved Keyphrase Extraction Algorithm For Generating Visual Display From Text	2020
19.	Universiti Putra Malaysia (UPM)	Internal Examiner	PhD	Adaptive Model For Ontology Instance Matching Within Heterogeneous Semantic Web Content Over Linked Data Environment	2020
20.	Universiti Kuala Lumpur (UniKL)	External Examiner	MSc	Self-Regulated Learning Process Model In Online Learning Environment Using Process Mining Approach	2019
21.	Universiti Putra Malaysia (UPM)	Internal Examiner	PhD	Efficient Genetic Partitioning-Around-Medoid Algorithm For Clustering	2019
22.	Universiti Putra Malaysia (UPM)	Internal Examiner	PhD	Adaptive And Selective Interest Region Detection With Visual Dictionary Fuzzification To Improve Complex And Ambiguous Food Recognition	2019
23.	Universiti Putra Malaysia (UPM)	Internal Examiner	PhD	Cancer Biomarker Discovery Using Microarray Gene Expression Data With Integrated Associative Classification	2019
24.	Universiti Putra Malaysia (UPM)	Internal Examiner	PhD	Modelling Lexicon Semantic For Mining Idea From Text In Information Retrieval	2018
25.	Universiti Putra Malaysia (UPM)	Internal Examiner	PhD	Feature Extraction Based On Word Embeddings For Sentiment Analysis	2018
26.	Universiti Putra Malaysia (UPM)	Internal Examiner	PhD	Class Binarization With Self-Adaptive Algorithm To Improve Human Activity Recognition	2018
27.	Nottingham University	External Examiner	PhD	Ontology-driven CropBase knowledge system — Framework, Approaches and Practice of Semantic Knowledge Modeling	2017
28.	Universiti Kebangsaan Malaysia	External Examiner	MSc	Named Entity Recognition in Crime News Documents Using Classifiers Combination	2015
29.	Universiti Kebangsaan Malaysia	External Examiner	MSc	Sistem Pakar Penyakit Mata Menggunakan Kaedah Bayesian Network Dan Dempster-Shafer	2014
30.	Universiti Tenaga Nasional (UNITEN)	External Examiner	MSc	Development of an ICT Framework for Rotal Malaysian Customs Department ICT Strategic Plan (2012-2014)	2014
31.	Universiti Tenaga Nasional (UNITEN)	External Examiner	MSc	Development of an E-Training Adoption Framework for a Higher Learning Institution	2013

## TEACHING EXPERIENCE

**Bachelor Courses: 8, Postgraduate Courses: 3**

No.	Nama Universiti / University Name	Tajuk Kursus / Course Title	Tahap / Level
1.	Universiti Putra Malaysia (UPM)	Java Programming	Bachelor
2.		Information Technology and Applications	

3.		Operating System	
4.		Computer Programming I	
5.		Computer Programming II	
6.		Data Mining	
7.		Intelligent Computing	
8.		Algorithm Design and Analysis	
9.		Automata Theory And Formal Languages	Master
10.		Research Methods in Computer Science	
11.	Universiti Tenaga Nasional (UNITEN)	Knowledge Management	Master
12.	Universitas Telkom, Indonesia	Data Analytics	Bachelor

## AWARDS AND RECOGNITION

**2 international awards, 2 UPM excellent service awards, 2 best paper awards, 8 faculty awards, 17 medals**

1. Fellow, APEC-Science Leadership Program, 2020, Thailand
2. Excellent Service Award, 2020, UPM
3. Excellent Service Award, 2017, UPM
4. Excellent Grant Award, 2021, Faculty of Computer Science and Information Technology, UPM
5. Excellent Researcher Award, 2021, Faculty of Computer Science and Information Technology, UPM
6. Excellent Intellectual Property Award, 2021, Faculty of Computer Science and Information Technology, UPM
7. Excellent Supervision Award, 2021, Faculty of Computer Science and Information Technology, UPM
8. Excellent Researcher Award, 2021, Faculty of Computer Science and Information Technology, UPM
9. Excellent Educator Award, 2020, Faculty of Computer Science and Information Technology, UPM
10. Excellent Researcher Award, 2020, Faculty of Computer Science and Information Technology, UPM
11. Excellent Researcher Award, 2019, Faculty of Computer Science and Information Technology, UPM
12. Excellent Researcher Award, 2019, Faculty of Computer Science and Information Technology, UPM
13. Excellent Researcher Award, 2018, Faculty of Computer Science and Information Technology, UPM
14. Excellent Researcher Award, 2017, Faculty of Computer Science and Information Technology, UPM
15. Best paper award, "Learning-Analytics based Intelligent Simulator for Personalised Learning", International Conference on Advancement in Data Science, E-learning and Information Systems (ICADEIS2020)
16. Best paper award, "Self-Adaptive Based Natural Language Interface for Disambiguation of Semantic Search", Malaysian National Conference of Databases 2014 (MaNCoD 2014), pp. 87-92, Serdang
17. Outstanding Open Educational Resources (OER) Award, International University Carnival on eLearning 2022 (IUCEL2022)
18. Gold medal, STILA: Learning Analytics Of Chronotype And Course Achievements For Supporting Personalized Teaching Intervention, International University Carnival on eLearning 2022 (IUCEL2022)
19. Gold medal, Learning Analytics Dashboard for IEEE CASSMiLe, International University Carnival on eLearning 2022 (IUCEL2022)
20. Gold medal, CikguAIBot: A Chatbot To Teach Artificial Intelligence in Malay, International Putra Competition on Innovation in Teaching and Learning 2020 (PiCTL2020)
21. Gold medal, Blended Learning Substitute, International Putra Competition on Innovation in Teaching and Learning 2020 (PiCTL2020)
22. Gold medal, ISPerL: A Learning Analytics based Simulator to Facilitate Personalised Learning, International Putra Competition on Innovation in Teaching and Learning 2020 (PiCTL2020)
23. Silver medal, Penggunaan Teknologi Realiti Maya (Virtual Reality) dan Aplikasi Thinglink dalam Menghasilkan Video 360 sebagai Platform Digital dalam Pengajaran Bahasa Melayu, International Putra Competition on Innovation in Teaching and Learning 2020 (PiCTL2020)
24. Outcome-based Education (OBE), International Putra Competition on Innovation in Teaching and Learning 2020 (PiCTL2020)
25. Gold, CikguAIBot: A Chatbot To Teach Artificial Intelligence in Malay, International Innovation, Invention & Design Competition (ICON 2020)
26. Silver, ISPerL: A Learning Analytics based Simulator to Facilitate Personalised Learning, International Innovation, Invention & Design Competition (ICON 2020)

27. Gold medal for project entitled Fuzzy Text Extractor KSFac: Knowledge Sharing Development Of A Tool To Analyze Trabecular Bone Structure, 3rd International Biotechnology Trade Exhibition, Conference and Award 2011
28. Best paper award, "Self-Adaptive Based Natural Language Interface for Disambiguation of Semantic Search", Malaysian National Conference of Databases 2014 (MaNCoD 2014), pp. 87-92, Serdang
29. Merit, Reputation Medal, iMSC-IHL Competition, MDEC, 2014
30. Silver medal, A Translation Engine from Natural Language Question to Semantic Query (SPARQL), UPM Exhibition in Design, Research, and Innovation 2014 (PRPI2014)
31. Silver medal, Sentimetrics Engine and Reputation Meter application, UPM Exhibition in Design, Research, and Innovation 2014 (PRPI2014)
32. Bronze medal, Multi Agent based Recommender System, UPM Exhibition in Design, Research, and Innovation 2014 (PRPI2014)
33. Silver medal, Fuzzy Text Extractor, Malaysia Technology Expo 2011 (MTE2011)
34. KSFac: Knowledge Sharing Facilitator, Innovation and Invention Competition, Malaysian Technology Expo 2006 (MTE2006)
35. Silver medal, Fuzzy Text Extractor, Exhibition in Design, Research, and Innovation 2011 (PRPI2011)
36. Silver medal, Facilitating Knowledge Sharing with Agent Technology, UPM Exhibition in Design, Research, and Innovation 2006 (PRPI2006)

## REFEREE

1. Prof. Dr. Rahmita Wirza O.K. Rahmat  
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