



## **CURRICULUM VITAE**



### **PROFESSOR DR. NOR AZURA MD GHANI**

Director  
Research Management Centre (RMC)  
Office of Deputy Vice-Chancellor (Research & Innovation)  
Universiti Teknologi MARA  
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# NOR AZURA MD GHANI

## PERSONAL

Date of birth: 14 November 1970  
Place of birth: Port Dickson  
Gender: Female  
Staff No. 130158  
I.C. No. 701114-05-5264  
Date appointed as a lecturer: 16 July 1994  
Date of confirmation in service: 16 July 1997

## ACADEMIC

Ph.D. Statistics (Statistical Pattern Recognition), Universiti Kebangsaan Malaysia (2009)  
M.Sc (Statistics), Universiti Kebangsaan Malaysia (1999)  
B.Sc (Hons) Statistics, Universiti Kebangsaan Malaysia (1993)

### Homepage:

- <https://www.scopus.com/authid/detail.uri?authorId=57203715457>
- <https://scholar.google.com/citations?hl=en&user=12oSvFoAAAAJ>
- [https://www.researchgate.net/profile/Nor\\_Md\\_Ghani](https://www.researchgate.net/profile/Nor_Md_Ghani)
- <http://orcid.org/0000-0002-8523-1494>

## PROFESSIONAL QUALIFICATIONS / AFFILIATIONS

### Field Expertise:

- Firearm Recognition
- Image Processing
- Statistical Pattern Recognition
- Robust Artificial Neural Networks
- Rough Set Theory
- Medical Statistics
- Biostatistics
- Survival Analysis
- Experimental Design & Analysis
- Sampling Techniques
- Categorical Data Analysis

## Professional Affiliations

1. Past Chair, IEEE Computer Society Malaysia (2023 - present)
2. Chair, IEEE Computer Society Malaysia (2021 - 2022)
3. Vice Chair, IEEE Computer Society Malaysia (2017 - 2020)
4. Executive Committee, IEEE Computer Society Malaysia (2012 - 2016)
5. Member, IEEE Computer Society, USA (2012 - present)
6. Certified Trainer in Impact Assessment & Evaluation of RIPA International, London (2014)
7. Life Member, Institut Statistik Malaysia (ISM) (2009 - present)

## EMPLOYMENT HISTORY

September 2022 - present	<b>Director</b> Research Management Centre (RMC) Office of Deputy Vice-Chancellor (Research & Innovation) Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia
August 2020 - August 2022	<b>Deputy Director (Research Impact)</b> Research Management Centre (RMC) Office of Deputy Vice-Chancellor (Research & Innovation) Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia
April 2014 - Julai 2020	<b>Head</b> Research Data Unit Research Management Centre (RMC) Office of Deputy Vice Chancellor (Research & Innovation) Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia
September 2010 – March 2014	<b>Research Fellow</b> Research Management Institute (RMI) Universiti Teknologi MARA, Shah Alam, Malaysia
December 2019 – Current	<b>Professor</b> School of Mathematical Sciences College of Computing, Informatics and Mathematics Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia
July 2013 – November 2019	<b>Associate Professor</b> Center for Statistical & Decision Sciences Studies Faculty of Computer & Mathematical Sciences Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia

November 2001 – July 2013

**Lecturer**

Center for Statistical & Decision Sciences Studies  
Faculty of Computer & Mathematical Sciences  
Universiti Teknologi MARA, Shah Alam,  
Selangor, Malaysia

December 1999 – October 2001

**Lecturer**

Faculty of Science  
Universiti Teknologi MARA, Shah Alam,  
Selangor, Malaysia

July 1994 – November 1999

**Lecturer**

Faculty of Information Technology & Quantitative Science  
Institute Teknologi MARA, Cawangan Pahang, Malaysia

July 1993 – June 1994

**Assistant Accountant**

Nik Jai Associate, Kuala Lumpur

## SUPERVISION

**Ph.D.: 4 (Completed) , 4 (Ongoing)**  
**MSc (By Research): 1 (Completed)**  
**MSc (Coursework): 17 (Completed), 1 (Ongoing)**

## DOCTOR OF PHILOSOPHY (Ph.D.)

<i>Student (University)</i>	<i>Title</i>	<i>Supervision</i>	<i>Level</i>	<i>Year</i>	<i>Status</i>
Nur Azimah Abdul Rahim (2019646244)	Hybridization of EM Algorithmn with Modified Least Trimmed Squares – Genetic Algorithmns applied to Firearm Identification	Main Supervisor	PhD	2019 - present	In progress
Norsyela Muhammad Noor Mathivanan (UiTM)	Improving Taxonomy-Aware Catalog Integration with Hierarchical Hidden Markov Model for Online Consumer Price Index	Main Supervisor	PhD (Big Data)	2017 - present	In progress
Mohd Shaleh bin M Mujir (2016400984) (UiTM)	Investigation of Platonic Design Elementary Formation for Advanced Industrial Commercialisation Strategy	Co-Supervisor	PhD	2017 - present	In progress
Siddiqui IntisarAhmad (2021540629)	Survival Function for Retention After a Dropout Longitudinal Research Studies	Co-Supervisor	PhD	2021 - present	In progress
Nurhasniza Idham Abu Hasan (UiTM)	Proportional Hazard Mixture Cure Survival Model with Time-Varying Covariate Effect	Main Supervisor	PhD (Statistics)	2013 - present	Completed
Saadi Ahmad Kamaruddin (UiTM)	Modified Artificial Neural Network Models for Malaysian Constructioh Costs Indices (MCCI) Data	Main Supervisor	PhD (Statistics)	2012 - present	Completed
Mazni Mohamad (UiTM)	The Enhancement of Partial Robust M-Regression and Split Sample Bootstrap (SSB) for High Dimensional Data with Outliers	Co-Supervisor	PhD (Statistics)	2011- present	Completed

<b>DOCTOR OF PHILOSOPHY (Ph.D.)</b>					
<i><b>Student (University)</b></i>	<i><b>Title</b></i>	<i><b>Supervision</b></i>	<i><b>Level</b></i>	<i><b>Year</b></i>	<i><b>Status</b></i>
Suryaefiza Karjanto (2009497576) (UiTM)	Shrinkage of Covariance Matrix in Hotelling's T <sup>2</sup> for Differentially Expresses Gene Sets.	Co-Supervisor	PhD (Statistics)	2009 - 2017	Completed
Aufzalina Mohd Yusof (UiTM)	Shared Frailty-Cured Fraction on Nephrolithiasis Data	Main Supervisor	PhD (Statistics)	2017 - 2019	Discontinued
Noor Ain Md Zeni (UiTM)	Artificial Neural Network for Firearm Recognition	Main Supervisor	PhD (Pattern Recognition)	2014 - 2015	Discontinued
Hanissah Mohamad @ Sulaiman (Universiti Kebangsaan Malaysia)	Forensic Ballistic Specimen Recognition using Spatial Correlation	Co-Supervisor	PhD (Statistics)	2010 - present	In progress
Nor Azlina Abd Razak (Universiti Kebangsaan Malaysia)	Forensic Ballistic Specimen Recognition using Fractal Analysis	Co-Supervisor	PhD (Statistics)	2010 - present	In progress

<b>Masters</b>					
<i>Student (University)</i>	<i>Title</i>	<i>Supervision</i>	<i>Level</i>	<i>Year</i>	<i>Status</i>
Aiman Adlan bin Khairulisam (2022914577)	A Study of Factors Affecting Research Productivity among Academic Staff	Main Supervisor	Master of Science (Applied Statistics)	2022 – 2023	In progress
Farhanah Atikah binti Rosli (2019988777)	Psychological Distress and Health Related Quality of Life (HRQoL) of School Teachers on the Secondary School: A Case Study in Bachok, Kelantan	Main Supervisor	Master of Science (Applied Statistics)	2021 – 2022	Completed
Anati Zafirah binti Zainal Abidin (2019988777)	Reducing Multicollinearity Problem in firearm Datasets using Ridge Regression and Lasso Regression	Main Supervisor	Master of Science (Applied Statistics)	2019 – 2020	Completed
Nur Azimah Abdul Rahim (2013863276)	Modified Least Trimmed Squares Method with for Face Recognition	Main Supervisor	MSc by Research (Statistics)	2013 – 2018	Completed
Sharifah Athilah Syed Jamaludin (2018470084)	Modelling People's Preference on the Physical Design of Asthma Spirometry Testing Instrument Based on Characteristics of Basic Design Elements Towards Advance Commercialization	Main Supervisor	Master of Science (Applied Statistics)	2018 – 2020	Completed
Syafiqah Rosli (2017110883)	A Comparison of Ordinal Regression Models in an Analysis of Factors Associated with Internet Addiction	Co-Supervisor	Master of Science (Applied Statistics)	2018 – 2019	Completed
Nur Farhana Md Saupi (2015403912)	Identification of Forensic Ballistics Specimen using Bayesian Classification Methods	Main Supervisor	Master of Science (Applied Statistics)	2016 – 2017	Completed
Caroline Henry (2014261072)	Factors Affecting Research Productivity in Higher Education: A Case Study in Universiti Teknologi MARA	Main Supervisor	Master of Science (Quantitative Sciences)	2017 - 2018	Completed

<b>Masters</b>					
<i>Student (University)</i>	<i>Title</i>	<i>Supervision</i>	<i>Level</i>	<i>Year</i>	<i>Status</i>
Muhammad Fazdhly Bin Abdul Muttalib (2014801756)	Modelling Lecturers' Efficacy in Promoting National Identity: A Case Study in Kolej Matrikulasi Selangor	Main Supervisor	Master of Science (Applied Statistics)	2016 - 2017	Completed
Aufzalina Mohd Yusof	A Predictive Model for Prediction of Heart Surgery Procedure (CABG or DES)	Main Supervisor	Master of Science (Applied Statistics)	2014 - 2015	Completed
Noor Aisyah Idris (2012997013)	Determination of Factor Influencing Man's Facial Attractiveness considered as Mr Right: A 2 <sup>k</sup> Factorial Design Approach	Main Supervisor	Master of Science (Applied Statistics)	2013 - 2014	Completed
Nor Aina Mardiah Md Dahari (UiTM) (2012574231)	Modelling for Determination of Factor Influencing Attractiveness of Gen XY towards Gen XX	Main Supervisor	Master of Science (Applied Statistics)	2013 - 2014	Completed
Amirah Fasihah Mohammad Helmi (UiTM)	Determining The Survival Time of Infective Endocarditis Patients and Factor Contributing to Survival After Mitral Valve: A case in National Heart Institute of Malaysia (IJN)	Main Supervisor	Master of Science (Applied Statistics)	2013 - 2014	Completed
Siti Syafini Zahari (UiTM)	Determining The Risk Factors of Rheumatic Heart Disease Patients using Log-Linear Model: A case in National Heart Institute of Malaysia (IJN)	Main Supervisor	Master of Science (Applied Statistics)	2013 - 2014	Completed
Noor Ain Md Zeni (UiTM)	Firearm Recognition using Legendre Orthogonal Moment Features of Firing Pin Impression Image	Main Supervisor	Master of Science (Applied Statistics)	2012 - 2013	Completed
Nur Hidayah Sa'adah Razali (UiTM)	Determining the Risk Factors of Complication During Robotic Surgery for Bladder Patients in Hospital Kuala Lumpur: A Case Study	Main Supervisor	Master of Science (Applied Statistics)	2011 - 2012	Completed

<b>Masters</b>					
<i>Student (University)</i>	<i>Title</i>	<i>Supervision</i>	<i>Level</i>	<i>Year</i>	<i>Status</i>
Siti Fatimah Zawani Zayadi (UiTM)	The Effectiveness of Robotic Surgery Towards Patients Suffered Prostate Cancer in Malaysia	Main Supervisor	Master of Science (Applied Statistics)	2011 - 2012	Completed
Saadi Ahmad Kamaruddin (UiTM)	Neural Network with Application in Identification of Forensic Ballistics Specimen	Main Supervisor	Master of Science (Applied Statistics)	2010 - 2011	Completed
Nurhasniza Idham Abu Hasan (UiTM)	Determining Risk Factors in Laparoscopic Investigation of Colorectal Cancer Resection	Main Supervisor	Master of Science (Applied Statistics)	2010	Completed
Sumarni Md Noor (UiTM)	An Application of Classification Method in Identifying Firearms	Main Supervisor	Master of Science (Applied Statistics)	2010	Completed

Project (Bachelor of Science (Hons.) Statistics)					
<i>Student (University)</i>	<i>Title</i>	<i>Supervision</i>	<i>Level</i>	<i>Year</i>	<i>Status</i>
Nurfirman Abdul Ghaffar (2012684442)	Modelling of Grant Allocation Data using ARIMA Model	Main Supervisor	BSc. (Hons.) (Statistics)	2014 – 2015	Completed
Fauzan binti Mohd Noor (2011472506)	The Competency Level in Management, ICT & Education Resources Services at Bhg Teknologi Pendidikan Kelantan	Main Supervisor	BSc. (Hons.) (Statistics)	2013	Completed
Siti Zubaidah Mohamad Yasim	Clinical Profile and Treatment Outcome of Optic Atrophy	Main Supervisor	BSc. (Hons.) (Statistics)	2012 – 2013	Completed
Mohamed Ariff Mohamed Johari	Modelling of Expenses DTMF Networks using ARIMA Model	Main Supervisor	BSc. (Hons.) (Statistics)	2012 – 2013	Completed
Noor Haniza Mohd Hosni (UiTM)	Modelling of Expenses MVE Technologies Sdn. Bhd. Using ARIMA Model	Main Supervisor	BSc. (Hons.) (Statistics)	2012	Completed
Siti Hawa Sa'adun (UiTM)	A Study on Development e-Learning Application of Geography Subject for Topic About Water and Environment	Main Supervisor	BSc. (Hons.) (Statistics)	2011	Completed
Nor Afifah Mat Said (UiTM)	Customer Satisfaction with RMI Services	Main Supervisor	BSc. (Hons.) (Statistics)	2010	Completed
Nurul Akma Abu Mansor Termizi (UiTM)	Estimation Employee Turnover Rate	Main Supervisor	BSc. (Hons.) (Statistics)	2010	Completed

Project (Bachelor of Science (Hons.) Statistics)					
<i>Student (University)</i>	<i>Title</i>	<i>Supervision</i>	<i>Level</i>	<i>Year</i>	<i>Status</i>
Lia Farhana Abdullah Sedek	Entrepreneurship In Malaysia: A Study On The Companies' Profile Of Business-Owner Managers	Main Supervisor	BSc. (Hons.) (Statistics)	2010	Completed
Nor Azlind Mohd Kamal (UiTM)	A Study on Measurement of Staff Commitment at Nik Jai Associates Sdn. Bhd.	Main Supervisor	BSc. (Hons.) (Statistics)	2009	Completed
Nor Nadiyah Mohd Latfi (UiTM)	Survey Of Effectiveness Of Transfer Of Technology In Lits 3 Scheme In Felda Jengka 16, Temerloh Pahang	Main Supervisor	BSc. (Hons.) (Statistics)	2009	Completed
Nur Azimah Arzali (UiTM)	Forecasting Admission Patient at PPUKM	Main Supervisor	BSc. (Hons.) (Statistics)	2009	Completed
Mohamad Syafiq Sapuan (UiTM)	Investigation of Wind Energy Potential in Kuala Terengganu	Main Supervisor	BSc. (Hons.) (Statistics)	2009	Completed

CONSULTANCY					
TITLE	CLIENT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Business Pitching and Mini Showcase Public-Private Research Network (PPRN)	Bahagian Perancangan dan Penyelidikan Dasar, KPT	RM51,680	Dr Saiful Izwan bin Suliman (Ketua, UiTM), Prof Ts. Dr. Mohd Nazip bin Suratman (Ahli Projek, UiTM), <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b>	4 Nov 2020 – 3 Nov 2021	Completed

## RESEARCH GRANTS

**Contract Research Grant: 4 (RM 2,047,720)**  
**External Research Grant: 30 (RM3,124,677)**  
**Internal Research Grant: 26 (RM 1,436,850)**  
**Total Amount Secured: RM 6,609,247**

### Contract Research Grant

TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Projek Pembangunan Sistem dan Repositori Penerbitan Ilmiah Malaysia	Pusat Sitasi Malaysia, KPT	RM1,500,000	<b>Prof Dr. Nor Azura Md Ghani (Ketua Projek, UiTM)</b> Assoc Prof Dr Saiful Izwan bin Suliman (Ahli Projek, UiTM), Dr Umi Marshida Abd Hamid (Ahli Projek, UiTM), Dr Ali Seman (Ahli Projek, UiTM), Assoc Prof Dr Ahmad Sabirin Zoolfakar (Ahli Projek, UiTM), Assoc Prof Dr Juliana Johari (Ahli Projek, UiTM), Assoc Prof Dr Shahrul Yani Said (Ahli Projek, UiTM) & Assoc Prof Dr Yong Soon Kong (Ahli Projek, UiTM)	1 Sept 2021 – 19 February 2026	In Progress
Kajian Pelaksanaan Pengukuran Pulangan Pelaburan bagi Penyelidikan, Pembangunan & Pengkomersialan	KPT -Top Down	RM245,000	Prof Dr. Ahmad Taufek Abdul Rahman (Ketua Projek, UiTM), <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Prof. Dr. Mohd Hafiz Mohd Hanafiah (Ahli Projek, UiTM), Prof. Dr. Shukor Abd Razak (Ahli Projek, UTM), Prof. Madya Dr. Johari Surif (Ahli Projek, UTM), Prof. Dr. Norsaadah Abdul Rahman (Ahli Projek, UM), Prof. Dr. Shaliza Ibrahim (Ahli Projek, UM), Caroline Henry (Ahli Projek, UiTM), Zuridah Saadan (Ahli Projek, UTM), Chew Teong Han (Ahli Projek, UTM)	1 Feb 2019 – 30 June 2020	Completed

Contract Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Public-Private Research Network: Workshop Training for Trainers	Kementerian Pendidikan Tinggi	RM52,720	Assoc Prof Dr Saiful Izwan bin Suliman (Ketua Projek, UiTM) & <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b>	7 May 2021 – 6 May 2022	Completed
Impak Jaringan Universiti Teknikal Malaysia (MTUN) dan Impak Geran Penyelidikan, Pembangunan dan Pengkomersilan (R&D&C) terhadap MTUN	KPT HEPS - Top Down	RM250,000	Prof. Dr. Hadariah Binti Bahron (Ketua Projek, UiTM) <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Dr. Norazan Mohamed Ramli (Ahli Projek, UiTM), Halilah Haron (Ahli Projek, UiTM), Zulkiflee Abd Latif (Ahli Projek, UiTM), Ahmad Naqiyuddin Bakar (Ahli Projek, UiTM), Mohamad Nidzam Rahmat (Ahli Projek, UiTM) & Rugayah Haji Hashim (Ahli Projek, UiTM)	1 Jan 2015 – 30 June 2017	Completed
<b>TOTAL</b>		<b>RM2,047,720</b>			

External Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Deciphering The Factors And Strategies Towards Empowering Women Academic Researchers In Uitm	STRATEGI C RESEARCH PARTNER SHIP (SRP)	RM50,000.00	<b>Profesor Madya Dr Wan Fazlida Hanim Bt Abdullah ,Profesor Dr Norazah Binti Abd Rahman, Profesor Dr Nor Azura Bt Md Ghani @ Mamat, Profesor Madya Dr Anida Binti Yusoff</b>	1 February 2024 – 31 January 2026	In Progress
Integrated Time-Dependent Features Of Log-Logistic Survival Regression (Llstrtd) And Survival Gradient Boosting (Sgbtd) For Survival Cancer-Associated Thrombosis (Cat) Prediction	FRGS (MOHE)	RM72,200.00	<b>Profesor Dr Nor Azura Bt Md Ghani @ Mamat Nor Rafeah Binti Tumian Profesor Madya Dr Norshahida Bt Shaadan Dr. Nurain Binti Ibrahim</b>	1 August 2024 – 31 July 2026	In Progress
Dasar dan Strategi Penerbitan Jurnal Berkualiti Oleh Ahli Akademik Malaysia	TRGS-SF (MOHE)	RM100,000	Dato' Profesor Dr Abu Bakar Abdul Majeed (Ketua Projek, UiTM), <b>Prof Dr. Nor Azura Md. Ghani (Ahli Projek, UiTM), Maisarah Binti Ahmad Kamil (Ahli Projek, UiTM)</b>	21 March 2024 – 31 Mac 2025	In Progress

External Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Kajian Impak Keterlibatan Ahli Akademik Malaysia Dalam Penerbitan Jurnal Dan Persidangan Pemangsa Dan Tidak Berkualiti (2018-2022)	JPT (MOHE)	RM30,000	Dato' Profesor Dr Abu Bakar Abdul Majeed (Ketua Projek, UiTM), <b>Prof Dr. Nor Azura Md. Ghani (Ahli Projek, UiTM)</b> , Prof. Dr. Mohd Ambri Mohamed (Ahli Projek, UKM)	1 Dec 2023 – 30 Jun 2025	In Progress
A New Risk-based Replacement Income Ratio for Defined Contribution Retirement Plan	FRGS (MOHE)	RM110,650	Dr. Syazreen Niza Binti Shair (Ketua Projek, UiTM), <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Norazliani Md Lazam (Ahli Projek, UiTM), Aida Yuzi Binti Yusof (Ahli Projek, UiTM), Mohd Nazrul Bin Mohd Amin (Ahli Projek, UiTM), Rose Irnawaty Ibrahim (Ahli Projek, UiTM)	1 Oct 2023 – 30 Sept 2026	In Progress
Hybridisation of Radial Basis Function Neural Network and Adjusted Correlation Sharing t-test Model for Air Quality Prediction	FRGS (MOHE)	RM60,200	Nurain Binti Ibrahim (Ketua Projek, UiTM), <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Prof. Dr. Ali Selamat (Ahli Projek, UTM), Siti Afiqah Binti Muhamad Jamil (Ahli Projek, UiTM) Ahmad Zia Ul Saufie Bin Mohamad Japeri (Ahli Projek, UiTM)	1 Oct 2023 – 30 Sept 2025	In Progress
Festival Of Ideas	TNCPI (MOHE)	RM7,500	Prof. Madya Dr. Saiful Izwan bin Suliman (Ketua Projek, UiTM), <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Prof. Madya Dr. Mohd Muzamir Bin Mahat	1 August 2022 – 30 June 2023	Completed

External Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Empowering Women Academic Researchers With Innovation Process Strategies	British Council,UK	RM65,327	Assoc. Dr. Wan Fazlida Hanim Abdullah (Ketua Projek, UiTM), <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Prof Dr. Norazah Abd Rahman (Ahli Projek, UiTM), Dr. Umi Marshida Abd. Hamid (Ahli Projek, UiTM), Anida Binti Yusoff (Ahli Projek, UiTM) , Zainiharyati Binti Mohd Zain (Ahli Projek, UiTM), Fazlena Binti Hamzah (Ahli Projek, UiTM)	1 Apr 2023 – 30 Sep 2024	Completed
Empowering Women Academic Researchers With Innovation Process Strategies	British Council, UK	RM305,880	Assoc. Dr. Wan Fazlida Hanim Abdullah (Ketua Projek, UiTM), <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Prof Dr. Norazah Abd Rahman (Ahli Projek, UiTM), Anida Binti Yusoff (Ahli Projek, UiTM) , Zainiharyati Binti Mohd Zain (Ahli Projek, UiTM), Fazlena Binti Hamzah (Ahli Projek, UiTM)	1 Apr 2023 – 31 Mar 2024	Completed

External Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Deep Learning Multivariate Criterion Optimizer Occluded Object Detection Model for Medical Images	FRGS (MOHE)	RM108,400	Dr Shafaf Ibrahim (Ketua Projek, UiTM), <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Prof Madya Dr Marina Yusoff (Ahli Projek, UiTM), Dr Ahmad Firdaus Ahmad Fadzil (Ahli Projek, UiTM) & Dr Raihah Aminuddin (Ahli Projek, UiTM)	1 Sept 2022 – 3 Marc 2026	Active
Integration of Spatial-Temporal Analysis And Maximum Entropy Principle Into Multivariate Skew-T Copula Model For Rainfall Data Modelling	FRGS (MOHE)	RM108,440	Dr Noor Fadhilah Binti Ahmad Radi (Ketua Projek, UiTM), <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Prof Dr Roziah Janor (Ahli Projek, UiTM), Prof Madya Dr Sayang Mohd Deni Janor (Ahli Projek, UiTM), Ahmad Zia Ul-Saufie Mohamad Japeri Janor (Ahli Projek, UiTM)	1 Sept 2022 – 3 Mac 2026	Active
A hybrid Date Palm Seed Growth Algoritmn Least Median Square and Backpropagation Neural Network for Stock Market Prediction	FRGS (MOHE)	RM75,000	Saadi Ahmad Kamaruddin (Ketua Projek, UUM), <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Nor Aishah Ahad (Ahli Projek, UUM) & Abdul Malek Yaakob (Ahli Projek, UUM)	7 Sept 2021 – 6 Sept 2024	Active
Deep Learning Multi-Objective Evolutionary Hyperparametric Tuner Segmentation Model	FRGS (MOHE)	RM103,420	Nur Nabilah Abu Mangshor (Ketua Projek, UiTM), <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Dr Shafaf Ibrahim (Ahli Projek, UiTM), Dr Ahmad Firdaus Ahmad Fadzil (Ahli Projek, UiTM)	7 Sept 2021 – 6 Sept 2024	Active

External Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Hybridization of Modified Least Trimmed Squares and Genetic Algorithms in Large Datasets Analysis for Image Forensics	FRGS (MOHE)	RM52,000	<b>Prof Dr. Nor Azura Md Ghani (Ketua Projek, UiTM),</b> Prof Dr Roziah Janor (Ahli Projek, UiTM) & Prof Dr. Shukor Abd Razak (Ahli Projek, UTM)	1 Sept 2019 – 31 May 2022	Completed
Improving Taxonomy Aware Catalog Integration with Hierarchical Hidden Markov Model (TACI-HHMM) for Online Consumer Price Index	FRGS (MOHE)	RM87,200	Prof Dr Roziah Janor (Ketua Projek, UiTM), <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> & Prof Madya Dr. Liong Choong Yeun (Ahli Projek, UKM)	1 Jan 2019 – 30 May 2022	Completed
Development of Stop-Loss Time-Discrete Markov Chain Model in Optimising Excess Claims for Medical and Health Insurance	FRGS - RACER (MOHE)	RM51,200	Dr Norazliani Binti Md Lazam (Ketua Projek, UiTM), <b>Prof Dr. Nor Azura Md Ghani (Ahli Projek, UiTM),</b> Norkhairunnisa Mohamed Redzwan (Ahli Projek, UiTM), Dr Syazreen Niza Binti Shair (Ahli Projek, UiTM) & Suraya Fadilah Binti Ramli (Ahli Projek, UiTM)	1 Jan 2019 – 30 May 2022	Completed
Resistant Estimator for Specific Autoregressive Conditional Heteroscedasticity in Financial Time Series Modelling	FRGS (MOHE)	RM70,200	Dr Siti Meriam Zahari (Ketua Projek, UiTM) <b>Prof Madya Dr. Nor Azura Md Ghani</b> (Ahli Projek, UiTM), Dr. S Sarifah Radiah Shariff Haron (Ahli Projek, UiTM), Muhammad Azri Bin Mohd (Ahli Projek, UiTM)	1 Aug 2016 – 31 Jan 2019	Completed
Shariah Compliant, Optimal Liability Driven Investments Under Uncertainties Model	FRGS (MOHE)	RM70,200	Dr. Siti Aida Binti Sheikh Hussin (Ketua Projek, UiTM) <b>Prof Madya Dr. Nor Azura Md Ghani</b> (Ahli Projek, UiTM), Dr Siti Meriam Zahari (Ahli Projek, UiTM), Dr Noor Asiah Ramli (Ahli Projek, UiTM) & Dr. Zalina Zahid (Ahli Projek, UiTM)	1 Aug 2016 – 31 Jan 2019	Completed

External Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Robust Estimator In Backpropagation Learning Algorithm of Nonlinear Artificial Neural Network Time Series Model	FRGS (MOHE)	RM75,200	<b>Prof Madya Dr. Nor Azura Md Ghani (Ketua Projek, UiTM)</b> , Dr. Norazan Mohamed Ramli (Ahli Projek, UiTM) & Dr. Zulhabri Ismail (Ahli Projek, UiTM)	1 Dec 2014 – 31 May 2017	Completed
Dynamic Age-Specific Mortality Forecasting Model	FRGS (MOHE)	RM50,000	<b>Prof Madya Dr. Nor Azura Md Ghani (Ketua Projek, UiTM)</b> , Dr. Norazan Mohamed Ramli (Ahli Projek, UiTM) & Dr Siti Meriam Zahari (Ahli Projek, UiTM)	1 July 2014 – 31 Dec 2016	Completed
Humanoid Research For Brain Impairment: Nano-Layer Barium Titanate Adaptive High Frequency Dielectric-Permittivity	NRGS (MOHE)	RM521,000	Dr. Ing. Oskar Hasdinor Hassan (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Dr. Nafisah Osman (Ahli Projek, UiTM Perlis) & Prof Madya Dr. Ab. Malik Marwan Ali (Ahli Projek, UiTM)	1 Dec 2013 – 30 Nov 2018	Completed
Humanoid Research For Brain Impairment: Proprioceptive Deficiency Detection in Human Locomotion	NRGS (MOHE)	RM158,000	Dr Rozita Jailani Prof Madya (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Prof Mohd Nasir Taib (Ahli Projek, UiTM) & Dr Nadia Mohd Mustafah (Ahli Projek, UiTM)	1 Dec 2013 – 30 Nov 2018	Completed
Humanoid Research For Brain Impairment: Neuromuscular Impairment in Function of Gait Asymmetries	NRGS (MOHE)	RM343,000	Prof Madya Dr. Noorita Md Tahir (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Prof Mohd Nasir Taib (Ahli Projek, UiTM) & Dr Rozita Jailani (Ahli Projek, UiTM)	1 Dec 2013 – 30 Nov 2018	Completed

External Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Wavelet-Based Illumination-Invariant Ear Code Generator	FRGS (MOHE)	RM88,700	Prof Madya Dr. Nursuriati Binti Jamil Prof (Ketua Projek, UiTM) <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> & Dr Alfian Abd Halin (Ahli Projek, UPM)	15 Nov 2013 – 14 Nov 2015	Completed
Medical Imaging Multi Resolution Scale Space Filtering	RAGS (MOHE)	RM75,000	Cik Ku Haroswati Binti Che Ku Yahaya (Ketua Projek, UiTM), Yuslinda Wati Binti Mohamad Yusof (Ahli Projek, UiTM), Prof Madya Dr. Noorita Md Tahir (Ahli Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> & Dr. Khairul Asri Mohd Ghani (Ahli Projek, UPM)	15 Dec 2012 – 14 Nov 2015	Completed
Industrialized Building System (IBS) Initiative Mathematical Modeling	RAGS (MOHE)	RM40,000	Siti Suhaidah Binti Sahab (Ketua Projek, UiTM), Dr. Zulhabri Bin Ismail (Ahli Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> & Nasyairi B Mat Nasir (Ahli Projek, UiTM)	15 Dec 2012 – 14 Dec 2014	Completed
DSP Development Prototype For Anomaly Gait Detection	PRGS (MOHE)	RM80,000	Prof Madya Dr. Noorita Md Tahir (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> & Roslina Mohamad (Ahli Projek, UiTM)	1 August 2012 – 31 July 2014	Completed
Unusual and Inappropriate Response Patterns of Students' Statistical Learning Ability and Attitude using Many-Facets Rasch Probabilistic Model	FRGS (MOHE)	RM50,000	Prof Madya Dr. Zamalia Mahmud (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani, (Ahli Projek, UiTM)</b> & Prof Madya Rosli Abdul Rahim (Ahli Projek, UiTM)	1 July 2011 – 30 June 2013	Completed

External Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Statistical Modelling Towards Laparoscopic Colorectal Cancer	FRGS TOP-DOWN (MOHE)	RM66,000	<b>Prof Madya Dr. Nor Azura Md Ghani (Ketua Projek, UiTM)</b> , Prof Madya Dr. Zamalia Mahmud (Ahli Projek, UiTM) & Dr. Khairul Asri Mohd Ghani (Ahli Projek, UPM)	27 December 2010 – 26 June 2013	Completed
Statistical Robustness of Firing Pin Impression Features for Firearm Recognition	FRGS (MOHE)	RM50,000	Dr. Liong Choong Yeun (Ketua Projek, UKM) <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> & Prof. Dr. Abdul Aziz Jemain (Ahli Projek, UKM)	20 August 2010 – 19 August 2012	Completed
<b>TOTAL</b>		<b>RM3,124,677</b>			

Internal Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Kajian Peningkatan Visibiliti Dan Jaringan Penyelidikan (bidang Ct & Lw)	Bestari (Top Down)	RM30,000.00	Prof Madya Dr. Nor Azura Md Ghani	15 July 2024 – 14 July 2026	Ongoing
Kajian Sistem Agihan Zakat: Pendekatan Kmprehensif Menggunakan Pemprofilan Data B40, Indeks Keperluan Asas Dan Papan Pemuka Interaksi	Dana DDF (KKPIM-UiTM)	RM100,850	Prof. Madya Dr Sayang Binti Mohd Deni (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Profesor Madya Dr. Ahmad Zia Ul-Saufie Bin Mohamad Japeri (Ahli Projek, UiTM) Dr. Siti Afiqah Binti Muhamad Jamil (Ahli Projek, UiTM), Dr. Noor Fadhilah Binti Ahmad Radi (Ahli Projek, UiTM), Dr. Mohd Ashrof Zaki Bin Yaakob (Ahli Projek, UiTM), Dr. Azri Bin Bhari (Ahli Projek, UiTM).	1 April 2024 – 30 October 2025	Ongoing
Projek Penerbitan Buku Menakluk Puncak Dunia: Sentuhan Srikandi	Bestari (Top Down)	RM30,000	Dr. Norhazlina Binti Husin, Dr. Noor Fadhilah Binti Ahmad Radi, Dr Nurain Binti Ibrahim, Prof. Dr. Nor Azura Md. Ghani, Saliza Binti Ismail, Sri Qamariah Binti Mohd Samsir, Prof Datuk Ts. Dr. Hajah Roziyah Binti Mohd Janor	7 November 2023 – 6 Jun 2025	Ongoing
Object-oriented Superpixels Medical Images Texture Recognition Model	MyRA Research Grant	RM20,000	Dr. Ahmad Firdaus Bin Ahmad Fadzil, Prof. Dr. Nor Azura Md. Ghani, Dr. Shafaf Binti Ibrahim	1 July 2022 – 30 Jun 2024	Completed

Internal Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Projek Pembinaan International Scorecard untuk pengukuran kepentingan aktiviti pengantarabangsaan	Bestari (Top Down)	RM101,400	Prof Madya Dr. Nornizar Binti Anuar, Syaza Marina Binti Ramli, Dr. Mohammad Nurhafiz Bin Hassim, Prof. Madya Dr. Siti Aekbal Binti Salleh, Prof. Dr. Nor Azura Md. Ghani & Dr. Shafaf Binti Ibrahim	1 Mac 2022 – 30 Jun 2023	Completed
Adjusted correlation sharing t-test adjcorT as a variable selection method for colorectal cancer disease classification in metabolomics area	Geran Penyelidikan MyRA	RM20,000	Dr Nurain Binti Ibrahim, Prof Madya Dr Ahmad Zia ul-Saufie Mohamad Japeri & <b>Prof. Dr. Nor Azura Md Ghani</b>	1 Sept 2021 – 2 Sept 2024	Completed
Development of Stochastic Brownian Motion for Food Security Prediction	Geran Penyelidikan MyRA	RM20,000	Dr Nur Amalina Binti Shafie, Dr Nurbaizura Binti Borhan, Dr Khairil Anuar Bin Md Isa, Dr Noor Amalina Nisa Binti Ariffin & <b>Prof Dr. Nor Azura Md Ghani</b>	1 Sept 2021 – 14 Dec 2024	Completed
Assessing The Impact of Fundamental Research Grants Acquisition on Researcher's Productivity and Capacity Building	Geran Penyelidik Muda Berbakat (YTR)	RM30,000	Prof Madya Dr Mohd Hafiz Mohd Hanafiah, Prof Madya Dr Ahmad Taufek Abdul Rahman, Dr Umi Marshida Abd Hamid, Dr Nur Adilah Binti Md Zain & <b>Prof Dr. Nor Azura Md Ghani</b>	1 Sept 2021 – 2 Mac 2024	Completed
Pembangunan Sistem Pengurusan Data Penyelidikan Universiti Teknologi MARA (UiTM)	Bestari (Top Down)	RM453,600	<b>Prof Dr. Nor Azura Md Ghani (Ketua Projek, UiTM)</b> , Dr Saiful Izwan Suliman (Ahli Projek, UiTM) & Dr Umi Marshida Abd Hamid (Ahli Projek, UiTM)	1 Dec 2020 – 31 Dec 2023	Active

Internal Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Modelling Online Consumer Price Index in Malaysia	Excellent Fund (Bestari - UiTM)	RM35,000	Prof Dr Roziah Janor (Ketua Projek, UiTM) & <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b>	1 Jan 2018 – 31 Dec 2019	Completed
Non-Zero Proportional Hazard Survival Model with Time-Varying Covariate Effect	Excellent Fund (Bestari - UiTM)	RM50,000	<b>Prof Madya Dr. Nor Azura Md Ghani (Ketua Projek, UiTM)</b>	1 Mar 2017 – 30 June 2020	Completed
Awareness and Risk Perception Amongst Pregnant Women: Effects of BPA Exposure on Maternofetal Health	Excellent Fund (MITRA - UiTM)	RM10,000	<b>Prof Madya Dr. Nor Azura Md Ghani (Ketua Projek, UiTM)</b>	1 Oct 2017 – 31 Dec 2019	Completed
Kajian Profil Denominator Berpotensi UiTM Selangor	Excellent Fund (Lestari - UiTM)	RM20,000	Prof Madya Halilah Haron (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Prof. Madya Dr. Ahmad Naqiyuddin Bin Bakar (Ahli Projek, UiTM), Dr. Umi Marshida Abd Hamid (Ahli Projek, UiTM)	1 June 2017 – 31 May 2020	Completed
Pendekatan Kreatif Meningkatkan Visibiliti dan Kolaborasi - RMC	Excellent Fund (Lestari - UiTM)	RM20,000	Prof. Madya Dr. Ahmad Taufek Abdul Rahman (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> , Prof Madya Dr Rohana Hasan (Ahli Projek, UiTM), Dr. Umi Marshida Abd Hamid (Ahli Projek, UiTM)	1 July 2017 – 31 July 2019	Completed
Singular Value Decomposition Pseudoinverse Regularisation in Pattern Recognition – Part II	Excellent Fund (PSI- UiTM)	RM60,000	<b>Prof Madya Dr. Nor Azura Md Ghani (Ketua Projek, UiTM)</b>	1 Dec 2013 – 30 Nov 2015	Completed

Internal Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Medical Imaging Multi Resolution Scale Space Filtering Part 2	Excellent Fund (PSI-UiTM)	RM60,000	<b>Prof Madya Dr. Nor Azura Md Ghani, (Ketua Projek, UiTM)</b>	1 Dec 2013 – 30 Nov 2015	Completed
Singular Value Decomposition Pseudoinverse Regularisation in Pattern Recognition – Part III	Excellent Fund (CIFI-UiTM)	RM60,000	<b>Prof Madya Dr. Nor Azura Md Ghani (Ketua Projek, UiTM)</b>	1 Dec 2013 – 16 Sept 2018	Completed
Medical Imaging Multi Resolution Scale Space Filtering Part 3	Excellent Fund (CIFI-UiTM)	RM60,000	<b>Prof Madya Dr. Nor Azura Md Ghani (Ketua Projek, UiTM)</b>	1 Dec 2013 – 16 Sept 2018	Completed
Firearm Recognition using Robust Artificial Neural Network	Excellent Fund (RIF-UiTM)	RM32,000	Az'lina Abdul Hadi (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> & Dr. Norazan Mohamed Ramli (Ahli Projek, UiTM)	1 Dec 2012 – 30 Nov 2014	Completed
Logistic Regression Model for Determining the Risk Factors of Complication during Robotic Surgery for Bladder Cancer Patients	Excellent Fund (RIF-UiTM)	RM32,000	Roziah Ani (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> & Balkis Mohd Osman (Ahli Projek, UiTM)	1 Oct 2012 – 30 Sept 2014	Completed

Internal Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Robust Individual Hotelling T <sup>2</sup> Control Charts for Monitoring Quality Process	Excellent Fund (RIF-UiTM)	RM32,000	Ainon Zarina Mohamad Nadzri (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> & Dr. Norazan Mohamed Ramli (Ahli Projek, UiTM)	1 Sept 2012 – 31 Ogos 2014	Completed
Robust Clustering Algorithm For Grouping Microarray Data	Excellent Fund (RIF-UiTM)	RM32,000	Noorezatty Mohd Yusop (Ketua Projek, UiTM), <b>Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> & Dr. Norazan Mohamed Ramli (Ahli Projek, UiTM)	1 July 2012 – 30 Jun 2014	Completed
Multinomial Logistic Regression Model for Measuring The Effectiveness of Robotic-Assisted Radical Prostatectomy (RAP) Technique Towards Prostate Cancer Patients	Excellent Fund (RIF-UiTM)	RM32,000	Balkis Mohd Osman (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b> & Roziah Ani (Ahli Projek, UiTM)	1 July 2012 – 30 Jun 2014	Completed
Cultural Differences in Thinking and Learning Statistical Concepts: A case Study	Excellent Fund (RIF-UiTM)	RM32,000	Masniyati Salikin (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani, (Ahli Projek, UiTM)</b> & Prof Madya Dr. Zamalia Mahmud (Ahli Projek, UiTM)	1 July 2012 – 30 Jun 2014	Completed
Validation of SF-36 and Paid Instruments in Malaysia	Excellent Fund (RIF-UiTM)	RM32,000	Nornadiah Mohd Razali (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani, (Ahli Projek, UiTM)</b> & Prof Madya Dr. Yap Bee Wah (Ahli Projek, UiTM)	1 July 2012 – 30 Jun 2014	Completed

Internal Research Grant					
TITLE	GRANT	AMOUNT (RM)	MEMBER/POSITION /INSTITUTION	DURATION	STATUS
Local Features Perception in Biometrics	Excellent Fund (RIF-UiTM)	RM32,000	Prof Madya Dr. Noorita Md Tahir (Ketua Projek, UiTM), <b>Prof Madya Dr. Nor Azura Md Ghani (Ahli Projek, UiTM)</b>	1 June 2012 – 30 May 2014	Completed
<b>TOTAL</b>		<b>RM1,436,850</b>			

## PUBLICATIONS IN INDEXED JOURNALS

1. Norsyela Muhammad Noor Mathivanan, Roziah Mohd Janor, Shukor Abd Razak, Nor Azura Md. Ghani. 2025. Feature Substitution Using Latent Dirichlet Allocation for Text Classification. 10.14569/IJACSA.2025.01601105, International Journal of Advanced Computer Science and Applications, 16 (1), 1087-1098. ISBN: 2158-107X, DOI: 10.14569/IJACSA.2025.01601105
2. Shafaf Ibrahim, Nur Afiqah Mohd Fuad, Nor Azura Md Ghani, Raihah Aminuddin, Budi Sunarko. 2025. Support Vector Machine (SVM) for Tomato Leaf Disease Detection. 10.17503/agrivita.v47i2.3746, AGRIVITA Journal of Agricultural Science, 47(2), 338-353. ISBN: '0126-0537, DOI: 10.17503/agrivita.v47i2.3746
3. Arafin, Siti Khadijaha; Ghani, Nor Azura Mda; Rosli, Marshima Mohdb,c; Ibrahim, Nurain. 2025. AdjcorT-RBFNN for Air Quality Classification: Mitigating Multicollinearity with Real and Simulated Data. 10.32526/enrj/23/20250006. Environment and Natural Resources Journal, 23(3), 242–255. ISBN: 1686-5456, DOI: 10.32526/enrj/23/20250006
4. Md Sa'at A. S., Shair S. N., Md Lazam N., Yusof A. Y., Mohd Amin M. N., Ibrahim R. I., Mohd Ghani N. A. 2025. Modeling short term interest rates using the Vasicek and Cox–Ingersoll–Ross models. Mathematical Modeling and Computing. Vol. 12, No. 1, pp. 212–220. ISBN: 2312-9794, DOI: 10.23939/mmc2025.01.212
5. Dr. Nurain Binti Ibrahim, Profesor Madya Dr Marina Binti Yusoff, Ts. Dr. Mohd Mahayaudin Bin Mansor & Profesor Dr Nor Azura Bt Md Ghani @ Mamat. 2024. Hybrid embedded and filter feature selection methods in big-dimension mammary cancer and prostatic cancer data. (submitted)
6. Profesor Dr Nor Azura Bt Md Ghani @ Mamat. 2024. Return on investment from educational research grant funding: deliverables and measurement (submitted)
7. Norsyela Muhammad Noor Mathivanan, Roziah Mohd Janor, Shukor Abd Razak & **Nor Azura Md Ghani**. 2023. Feature Substitution using Latent Dirichlet Allocation for Text Classification, ISSN
8. Nurain Ibrahim, Ahmad Zia Ul-Saufie, Kukatharmini Tharmaratnam & **Nor Azura Md. Ghani**. 2023. A Filter Feature Selection Method: Adjusted Correlation Sharing t-test (AdjcorT) for Maximizing Classification Accuracy. (submitted)
9. Nurain Ibrahim, Ahmad Zia Ul-Saufie, Kukatharmini Tharmaratnam, Marta Garcia-Finana, Chris Probert, Ashley Bond & **Nor Azura Md. Ghani**. 2023. Feature Selection Methods for High-Dimensional Metabolomics. (submitted)
10. Noor Fadhilah Ahmad Radi, Roziah Mohd Janor, Sayang Mohd Deni, Ahmad Zia Ul-Saufie Mohamad Japeri & Nor Azura Md. Ghani. 2023. A Conceptual Model of the Geographical Spatial Mapping and Dashboard: An Early Warning System of Covid-19 Potential Risk Zones. (submitted)
11. Adamu, S.B, Halimah Mohamed Kamari, Chan Kar Tim, Farah Diana Muhammad, S.N Nazrin, Edgar Scavino, Saadi Bin Ahmad Kamaruddin, Az'lina Abdul Hadi & **Nor Azura Md Ghani**. 2022. Structural, Prediction And Simulation Of Elastic Properties For Tellurite-Based Glass Systems Doped with Nano and Micro Eu<sub>2</sub>O<sub>3</sub> Particles via Artificial Neural Network Model. *Journal of Materials Research and Technology*, Vol (17), 11 January 2022, pp. 586 - 600, DOI: <https://doi.org/10.1016/j.jmrt.2022.01.035>

12. Nurul Syafiah Abd Naeem, Nuzlinda Abdul Rahman & **Nor Azura Md Ghani**. 2022. Spatio-Temporal Modelling of Dengue Fever Patterns in Peninsular Malaysia from 2015–2017. *Bulletin of the Malaysian Mathematical Science Society*
13. Siti Dianah Abdul Bujang, Ali Selamat, Roliana Ibrahim, Ondrej Krejcar, Enrique Herrera-Viedma, Hamido Fujita & **Nor Azura Md Ghani**. 2021. Multiclass Prediction Model for Student Grade Prediction Using Machine Learning. *IEEE Access*, Vol 9.
14. Caroline Henry, **Nor Azura Md Ghani**, Umi Marshida Abd Hamid, Ahmad Naqiyuddin Bakar. 2020. Factors contributing towards research productivity in higher education. *International Journal of Evaluation and Research in Education*, 9(1), March 2020, pp. 203-211. ISSN: 22528822, DOI: 10.11591/ijere.v9i1.20420
15. Hazrita Abd Rahim, Shafaf Ibrahim, Saadi Bin Ahmad Kamaruddin, **Nor Azura Md Ghani** & Ismail Musirin. 2020. Exploration on digital marketing as businessstrategy model among Malaysian entrepreneurs via neurocomputing, 9(1), *IAES International Journal of Artificial Intelligence Open Access*, pp. 18-24ISSN: 20894872 DOI: 10.11591/ijai.v9.i1.pp18-24
16. Norsyela Muhammad Noor Mathivanan, **Nor Azura Md Ghani** & Roziah Janor. 2019. Performance analysis of supervised learning models for product title classification. *IAES International Journal of Artificial Intelligence (IJ-AI)* 8(3), September 2019, pp. 299 – 306. ISSN: 2252-8938, DOI: 10.11591/ijai.v8.i3.pp229-306
17. Irham Syafiq Shahbudin, Ismail Musirin, Saiful Izwan Suliman, Afdallyna Fathiyah Harun, Sharifah Azma Syed Mustaffa, Hadi Suyono & **Nor Azura Md Ghani**. 2019. FACTS Device Installation in Transmission System using Whale Optimization Algorithm. *Bulletin of Electrical Engineering and Informatics* 8(1), pp. 101 – 107.
18. Saadi Bin Ahmad Kamaruddin, Nor Azura Md Ghani, Hazrita Ab Rahim & Ismail Musirin. Killer whale-backpropagation (KW-BP) algorithm for accuracy improvement of neural network forecasting models on energyefficient data. *IAES International Journal of Artificial Intelligence (IJ-AI)* 8(3), September 2019, pp. 270 – 277. ISSN: 2252-8938, DOI: 10.11591/ijai.v8.i3.pp270-277
19. Norsyela Muhammad Noor Mathivanan, **Nor Azura Md Ghani** & Roziah Janor. 2019. A Comparative Study on Dimensionality Reduction between Principal Component Analysis and K-Means Clustering. *Indonesian Journal of Electrical Engineering and Computer Science*, 16(2), pp. 752–758, DOI: <http://doi.org/10.11591/ijeecs.v16.i2.pp752-758>.
20. Aufzalina Mohd Yusof, **Nor Azura Md. Ghani**, Khairul Asri Mohd Ghani & Khairul Izan Mohd Ghani. 2019. A Predictive Model for Prediction of Heart Surgery Procedure. *Indonesian Journal of Electrical Engineering and Computer Science*.
21. **Nor Azura Md Ghani**, Saadi bin Ahmad Kamaruddin, Ismail Musirin & Hishamuddin Hashim. 2018. [Fitting Conventional Neural Network Time Series Models on Sand Price Indices Dataset](#). *International Journal of Engineering & Technology*, 7(3), pp. 11 – 15.

22. Nabil Fikri Ruslan, Ismail Musirin, Mohamad Khairuzzaman Mohamad Zamani, Muhammad Murtadha Othman, Zulkiffli Abdul Hamid, Zikri Abadi Baharuddin & **Nor Azura Md Ghani**. 2018. [Power Tracing Monitoring incorporating Optimal Reactive Power Dispatch](#). *International Journal of Engineering & Technology*, 7(3), pp. 1 – 5.
23. **Nor Azura Md Ghani**, Saadi bin Ahmad Kamaruddin, Ismail Musirin & Hishamuddin Hashim. 2018. [Results of Fitted Neural Network Models on Malaysian Aggregate Dataset](#). *Bulletin of Electrical Engineering and Informatics* 7 (3), pp. 272 – 278.
24. Amirul Izzat Abu Bakar, Mohamad Khairuzzaman Mohamad Zamani, Ismail Musirin & **Nor Azura Md Ghani**. 2018. [Load Management for Voltage Control Study Using Parallel Immunized-computational Intelligence Technique](#). *Bulletin of Electrical Engineering and Informatics* 7 (3), pp. 176 – 182.
25. Norsyela Muhammad Noor Mathivanan, **Nor Azura Md Ghani** & Roziah Janor. 2018. [Improving Classification Accuracy Using Clustering Technique](#). *Bulletin of Electrical Engineering and Informatics* 7 (3), pp. 465 – 470.
26. Norsyela Muhammad Noor Mathivanan, Puzziawati Ab Ghani & **Nor Azura Md Ghani**. 2018. [Tracing Mathematical Function of Age Specific Fertility Rate in Peninsular Malaysia](#). *Indonesian Journal of Electrical Engineering and Computer Science*, Vol 9(3), pp. 637-642.
27. Mohamad Khairuzzaman Mohamad Zamani, Ismail Musirin, Halim Hassan, Sharifah Azwa Shaaya, Shahril Irwan Sulaiman, **Nor Azura Md Ghani** & Saiful Izwan Suliman. 2018. [Active and Reactive Power Scheduling Optimization using Firefly Algorithm to Improve Voltage Stability under Load Demand Variation](#). *Indonesian Journal of Electrical Engineering and Computer Science*, Vol 9(2), pp. 365-372.
28. Mohamad Khairuzzaman Mohamad Zamani, Ismail Musirin, Mohamad Sabri Omar, Saiful Izwan Suliman, **Nor Azura Md Ghani** & Nur Azwan Mohamed Kamari. 2018. [Gravitational Search Algorithm Based Technique for Voltage Stability Improvement](#). *Indonesian Journal of Electrical Engineering and Computer Science*, Vol 9(2), pp. 123-130.
29. Saadi Ahmad Kamaruddin, **Nor Azura Md Ghani** & Norazan Mohamed Ramli. 2018. [Consolidated Backpropagation Neural Network for Malaysian Construction Costs Indices Data with Outliers Problem](#). *Pertanika Journal of Science and Technology*, Vol 26(1), pp. 353-366.
30. **Nor Azura Md Ghani**, Choong-Yeun Liong & Abdul Aziz Jemain. 2018. [Neurocomputing Approach for Firearm Identification](#). *Pertanika Journal of Science and Technology*, Vol 26(1), pp. 341-352.
31. Caroline Henry, **Nor Azura Md Ghani**, Halilah Haron, Umi Marshida Abd Hamid, Ahmad Naqiyuddin Bakar & Ahmad Taufek Abdul Rahman. 2018. [The Nexus between Funding and Research Output: A Case Study in Universiti Teknologi MARA](#). *International Journal of Engineering & Technology*, 7(3), pp. 187 – 191.

32. Nurhasniza Idham Abu Hassan, **Nor Azura Md Ghani**, Norazan Mohamed Ramli, Khairul Asri Mohd Ghani & Khairul Izan Mohd Ghani. 2017. [Rheumatics Heart Disease Survival using Stratified Cox Proportional Hazard Model with Time-Varying Effect](#). *Journal of Engineering and Applied Sciences*. 12 (Special Issue11), pp. 9205 – 9209.
33. **Nor Azura Md Ghani**, Saadi bin Ahmad Kamaruddin, Norazan Mohamed Ramli, Ismail Musirin, Hishamuddin Hashim. 2017. [Modified BPNN via Iterated Least Median Squares, Particle Swarm Optimization and Firefly Algorithm](#). *Indonesian Journal of Electrical Engineering and Computer Science*, Vol 8(3), pp. 779-786.
34. **Nor Azura Md Ghani**, Saadi bin Ahmad Kamaruddin, Norazan Mohamed Ramli, Ismail Musirin, Hishamuddin Hashim. 2017. [Enhanced BFGS Quasi-Newton Backpropagation Models on MCCI Data](#). *Indonesian Journal of Electrical Engineering and Computer Science*, Vol 8(1), pp. 101-106.
35. Nur Azimah Abdul Rahim, **Nor Azura Md Ghani**, Norazan Mohamed, Hishamuddin Hashim & Ismail Musirin. 2017. [The Application of Modified Least Trimmed Squares with Genetic Algorithms Method in Face Recognition](#). *Indonesian Journal of Electrical Engineering and Computer Science*, Vol 8(1), pp. 154-158.
36. Mazni Mohamad, Norazan Mohamed Ramli & **Nor Azura Md Ghani**. 2017. [The Performance of Re-Descending Weight Based Partial Robust M-Regression Methods](#), *Applied Mathematics and Information Sciences*, Vol 11(1), pp. 333-338.
37. Norazlina Abd Razak, Choong-Yeun Liong, Abdul Aziz Jemain, **Nor Azura Md Ghani**, Shahrudin Zakaria & Hanissah Mohamad@Sulaiman. 2017. [Firing Pin Impression Segmentation using Canny Edge Detection Operator and Hough Transform](#). *Journal of Telecommunication, Electronic and Computer Engineering*, Vol 9(1), pp. 23-26
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46. Saadi Ahmad Kamaruddin, **Nor Azura Md Ghani**, Choong-Yeun Liong & Abdul Aziz Jemain. 2011. Firearm recognition based on whole firing pin impression image via back propagation neural network. *Proceedings IEEE: International Conference on Pattern Analysis and Intelligent Robotics*, pg. 177 – 182. ISBN 978-1-61284-404-6.

## PUBLICATIONS – NON INDEXED PROCEEDINGS

1. **Nor Azura Md Ghani**, Saadi Ahmad Kamaruddin, Choong-Yeun Liong & Abdul Aziz Jemain. Neural Network Approach for Firearm Identification. *The 2<sup>nd</sup> International Conference on Statistics in Science, Business and Engineering (ICSSBE 2015)*. 2 – 3 September 2015, Putrajaya.
2. Saadi Bin Ahmad Kamaruddin, **Nor Azura Md Ghani** & Norazan Mohamed Ramli. Consolidated Backpropagation Neural Network for Malaysian Construction Costs Indices Data with Outliers Problem. *The 2<sup>nd</sup> International Conference on Statistics in Science, Business and Engineering (ICSSBE 2015)*. 2 – 3 September 2015, Putrajaya.
3. Saadi Ahmad Kamaruddin, **Nor Azura Md Ghani** & Norazan Mohamed Ramli. Boosting Backpropagation Algorithm of Neural Network Time Series Modeling using M-estimators, ILMedS & PSO-LMedS with Application. *The 22<sup>nd</sup> National Symposium on Mathematical Sciences (SKSM 22)*, 24 – 26 November 2014, Shah Alam, Selangor.
4. Saadi Bin Ahmad Kamaruddin, **Nor Azura Md Ghani** & Norazan Mohamed Ramli. 2014. Bootstrap Techniques for ANN-NAR and ANN-NARMA Modeling Validation Process. *The 2014 IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA 2014)*, 28 September - 1 October 2014, Kota Kinabalu, Sabah.
5. Saadi Bin Ahmad Kamaruddin, **Nor Azura Md Ghani** & Norazan Mohamed Ramli. 2014. Hybridizing Backpropagation with Robust Estimators for Better Performance of Nonlinear Neural Network Forecasting. *The 2014 IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA 2014)*, 28 September – 1 October 2014, Kota Kinabalu, Sabah.
6. Balkish Mohd Osman, **Nor Azura Md Ghani**, Roziah Ani & Khairul Asri Mohd Ghani. 2014. Multinomial Logistic Regression Model for Measuring the Effectiveness of Robotic Assisted Radical Prostatectomy. *The 2014 IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA 2014)*, 28 September – 1 October 2014, Kota Kinabalu, Sabah.
7. Saadi Bin Ahmad Kamaruddin, **Nor Azura Md Ghani** & Norazan Mohamed Ramli. 2014. Enhancing Backpropagation of ANN-NAR and ANN-NARMA using Robust Estimators with Application on Real Industrial Data. *Proceedings of The 3<sup>rd</sup> International Conference on Computer Science and Computational Mathematics (ICCSCM 2014)*, vol. 3, pp. 256-266. 8 – 9 May 2014, Langkawi.
8. Saadi Ahmad Kamaruddin, **Nor Azura Md Ghani** & Norazan Mohamed Ramli. 2014. Neural Network Method in Predicting Malaysian Peninsular Construction Materials Price Indices. *Proceedings IEEE: 2014 IEEE Colloquium on Humanities, Science and Engineering (CHUSER 2014)*, 7 – 9 April 2014, Penang.
9. Saadi Ahmad Kamaruddin, **Nor Azura Md Ghani** & Norazan Mohamed Ramli. 2014. The Effect of Missing Values and Outliers in Time Series Data towards Panel SPSM-KSS Fourier Univariate Unit Root Test. *Proceedings of 16<sup>th</sup> International Conference on Mathematical and Computational Methods in Science and Engineering (MACMESE '14)*, 23 – 25 April 2014, Kuala Lumpur.

10. Saadi Ahmad Kamaruddin, **Nor Azura Md Ghani** & Norazan Mohamed Ramli. 2013. Neural Network Superiority in Predicting Malaysian Construction Materials Price Indices. *Proceedings of Computer & Mathematical Sciences Graduates National Colloquium, 3 – 4 September 2013. Shah Alam.* ISBN: 978-967-12088-0-9
11. Herma Mohd Hanif, Norazan Mohamed Ramli, Khairul Anuar Rasmani & **Nor Azura Md Ghani**. 2013. Detecting Excessive Water Usage in Residential Premises Using Robust Hotelling  $T^2$  Control Chart. *Proceedings of Computer & Mathematical Sciences Graduates National Colloquium, 3 – 4 September 2013. Shah Alam.* ISBN: 978-967-12088-0-9
12. Herma Mohd Hanif, Norazan Mohamed Ramli, Khairul Anuar Rasmani & **Nor Azura Md Ghani**. 2013. Improving the Performance of Classical Hotelling  $T^2$  Control Charts with Decile and Trimmed Means in Phase One. *Proceedings of the 2014 International Conference on Information, Operations Management and Statistics (ICIOMS2013), 1 – 3 September 2013, Kuala Lumpur (The Best Paper Awards).*
13. Suryaefiza Karjanto, Rasimah Aripin, Norazan Mohamed Ramli & **Nor Azura Md Ghani**. Shrinkage Covariance Matrix in Hotelling's  $T^2$  for Differentially Expresses Gene Sets. *Proceedings of the 2013 International Conference on Mathematics and its Applications (ICMA-2013), 19 – 20 August 2013, Kuala Lumpur.*
14. **Nor Azura Md Ghani**, Saadi Ahmad Kamaruddin, Choong-Yeun Liong & Abdul Aziz Jemain. Identification of Pistols by Best Features of Ring Firing Pin Impression Images. *Proceedings of IEEE Symposium on Humanities, Science & Engineering Research (SHUSER 2013), 23 – 26 June 2013, Penang*
15. Saadi Ahmad Kamaruddin, **Nor Azura Md Ghani** & Norazan Mohamed Ramli. Forecasting Price Indices of Construction Materials of Private Financial Initiative Data in Southern Region Peninsular Malaysia. *Proceedings of IEEE Symposium on Humanities, Science & Engineering Research (SHUSER 2013), 23 – 26 June 2013, Penang.*
16. Zamalia Mahmud, Masniyati Salikin & **Nor Azura Md Ghani**. 2013. Diagnosis of Engineering Students' Learning Ability in Selected Statistical Topics using Rasch Measurement Tools. *Proceedings of the 19<sup>th</sup> International Conference on Educational Technologies (EDUTE '13),* pg. 46 – 53, ISBN 978-1-61804-172-2
17. Saadi Ahmad Kamaruddin, **Nor Azura Md Ghani** & Norazan Mohamed Ramli. 2013. Estimating Construction Materials Price Indices of Private Financial Initiative in Malaysian East Coast Region. *Proceedings of 15<sup>th</sup> International Conference on Mathematical and Computational Methods in Science and Engineering (MACMESE '13),* pg. 90 – 97, ISBN 978-1-61804-174-6
18. Mohammad Syafiq Sapuan, Ahmad Mahir Razali, Kamarulzaman Ibrahim, **Nor Azura Md Ghani**, Azami Zaharim & Kamaruzzaman Sopian. 2009. Investigation of wind energy potential in Kuala Terengganu, Malaysia. *Proceedings of Engineering Matematics,* pg. 237 – 243.
19. **Nor Azura Md Ghani**, Choong-Yeun Liong & Abdul Aziz Jemain. 2008. Statistik asas sebagai fitur untuk pengecaman spesimen forensik balistik. *Prosiding Simposium Kebangsaan Sains Matematik ke-16,* pg. 296 – 303. ISBN 978-983-2888-92-5

20. **Nor Azura Md Ghani**, Choong-Yeun Liong & Abdul Aziz Jemain. 2007. Momen geometrik sebagai fitur untuk pengecaman spesimen forensik balistik. *Prosiding Simposium Kebangsaan Sains Matematik ke-15*, pg. 583 – 590. ISBN 978-967-305-000-0
21. **Nor Azura Md Ghani**, Choong-Yeun Liong & Abdul Aziz Jemain. 2006. Pengecaman spesimen forensik balistik. *Prosiding Konferensi Kebangsaan Pemodelan Matematik & Statistik Sempena 75 Tahun UPM, Jabatan Matematik UPM. UPM Serdang*, pg. 115 – 120. ISBN 978-983-3455-68-3
22. **Nor Azura Md Ghani**, Choong-Yeun Liong, Abdul Aziz Jemain & Ahmad Mahir R. 2006. Pengecaman pola data forensik: pistol dan peluru. *Prosiding Kolokium Siswazah Ke Enam. UKM Bangi*, pg. 420 – 422.
23. Choong-Yeun Liong, Abdul Aziz Jemain, **Nor Azura Md Ghani** & Cheah H.C. 2005. Menilai kesesuaian momen ortogon Legendre untuk pengelasan kedudukan penumpang yang tersegmen-sempurna menggunakan analisis diskriminan. *Prosiding Simposium Kebangsaan Sains Matematik ke XIII. Jld. 2*, pg. 996 –1005. ISBN 983-3282-32-6

#### POSTER PRESENTATION

1. Hizami Amin Tai, Khairul Asri Mohd Ghani, **Nor Azura Md Ghani**, M F Jabar, T F Gee, R B H Raja Zezeman Shah, N C Liew & Y A Gul. 2012. *A Retrospective Analysis of Laparoscopic Colectomy Outcomes for Rectal Carcinoma in a Single Malaysian Tertiary Referral Centre*. Coloproctology 2012.

#### BOOKS & MANUSCRIPT

1. Ahmad Taufek Abdul Rahman, **Nor Azura Md Ghani**, Mohd Hafiz Mohd Hanafiah, Shaliza Ibrahim, Noor Hasnah Moin, Shukor Abd Razak, Johari Surif, Chew Teong Han, Zuridah Saadan & Syamimi Shamsuddin. 2021. *A Framework to Estimate Return on Investment from Funding of Research, Development, Commercialization and Innovation (RDCI) in Malaysia: Method and Protocol*. ShahAlam: Penerbit Press Universiti Teknologi MARA. ISBN 978-976-363-721-8
2. **Nor Azura Md Ghani** & Rudzah Talib. 2006. *Basic Mathematics 1A*. Kuala Lumpur: McGraw-Hill. ISBN 983-3219-33-0
3. **Nor Azura Md Ghani** & Rudzah Talib. 2001. *Asas Matematik 1A*. Kuala Lumpur: McGraw-Hill. ISBN 983-9340-35-2
4. **Nor Azura Md Ghani** et al. 1996. *Mathematics for Pre-Accounting*. Manuscripts ITM Jengka, Pahang.

## AWARDS

### Service

1. Universiti Teknologi MARA, **Excellent Service Award for 2023**.
2. Universiti Teknologi MARA, **Excellent Service Award for 2017**.
3. Universiti Teknologi MARA, **Excellent Service Award for 2012**.
4. Universiti Teknologi MARA, **Excellent Service Award for 2001**.

### Scientific Presentation

1. **Best Paper Award** at 3rd International Conference on Advances in Mathematics, Power and Energy (AMPE2018), Melaka, 24 – 25 November 2018. “A Review on Robust Artificial Neural Network Forecasting Models towards Outliers Problem”
2. **Excellent Researcher Award** at 2018 12<sup>th</sup> International Power Engineering, Optimization & Computing Conference (PEOCO2018), Langkawi: 14 – 15 July 2018
3. **Best Poster Award** at 4<sup>th</sup> International Conference on Science & Social Research (CSSR2017), Melaka: 6 – 7 December 2017. “The Nexus between Funding and Research Output: A Case Study in Universiti Teknologi MARA”
4. **Best Paper Award** at the 2nd International Conference on Statistics in Science, Business and Engineering (ICSSBE2015), Putrajaya: 2 – 3 September 2015. “Consolidated Backpropagation Neural Network for Malaysian Construction Costs Indices Data with Outliers Problem”
5. **Best Paper Award** at the 2014 International Conference on Information, Operations Management and Statistics (ICIOMS2013), Kuala Lumpur: 1 – 3 September 2013, “Improving the Performance of Classical Hotelling T2 Control Charts with Decile and Trimmed Means in Phase One”

### Innovation

1. **Gold Medal** at Competition & Exhibition Invention, Innovation & Design Exposition 2021 (IIDEX2021). Virtual: 11 – 15 October 2021, “adjcorT: A Filter Feature Selection Method for Highly Dimensional Metabolomics Data Classification”
2. **Bronze Medal** at Minggu Penyelidikan & Inovasi 2021, Universiti Malaysia Terengganu, Virtual: 10 March 2021, “Metal Cube Feng Fu Ring”
3. **Silver Medal** at Virtual International Research and Innovation Symposium and Exposition 2020 (RISE2020). UTHM: 16 – 30 November 2020, “Reflective Coated Guiding Block from Waste Tyres”
4. **Gold Medal** at 8<sup>th</sup> Apprentice Innovation & Research Exhibition (AIREx) 2020, UniKL, Virtual: 30 September 2020, “Solar Powered Terrarium Mini Green House”
5. **Silver Medal** at Kongres & Pertandingan Inovasi P&P: Pembelajaran Aktif Futuristik Melangkau 2020 (kNOVASI2020), Hotel Tenera Bangi: 5 – 6 February 2020. “ANN on Assessing Contributing Factors of Children Mathematical Performance at Malaysian TASKA with Todd-Acts Mobile Application”

6. **Bronze Medal** at the Competition & Exhibition Invention, Innovation & Design Exposition 2018 (IIDEX2018), Shah Alam: 24 – 28 September 2018. “Improving Taxonomy-Aware Catalog Integration with Hierarchical Hidden Markov Model for Online Consumer Price Index”
7. **Silver Medal** at the Creation, Innovation, Technology & Research Exposition (CITREx2018), Universiti Malaysia Pahang: 7 – 8 February 2018. “A Robust Firearm Identification Algorithm of Forensic Ballistics Specimens”
8. **Gold Medal** at the Competition & Exhibition Invention, Innovation & Design Exposition 2017 (IIDEX2017), Shah Alam: 25 – 29 September 2017. “Modelling Changing Risk Factors among RHD Patients”
9. **Bronze Medal** at the Competition & Exhibition Invention, Innovation & Design Exposition 2017 (IIDEX2017), Shah Alam: 25 – 29 September 2017. “The Performance of Modified LTS-Based Method for Large Data Sets Based on Monte Carlo Simulation”
10. **Gold Medal** at the Competition & Exhibition Invention, Innovation & Design Exposition 2016 (IIDEX2016), Shah Alam: 20 – 23 September 2016. “Auto-Fosronn”
11. **Silver Medal** at the Competition & Exhibition Invention, Innovation & Design Exposition 2016 (IIDEX2016), Shah Alam: 20 – 23 September 2016. “Rheumatics Heart Disease Survival using an Extended Mixture Cure Cox PH Model with Time-Varying Covariates Effect”
12. **Silver Medal** at the Competition & Exhibition Invention, Innovation & Design Exposition 2016 (IIDEX2016), Shah Alam: 20 – 23 September 2016. “Shrinkage Covariance Matrix Approach as a tool for Detecting Significant Gene Set in Microarray Data”
13. **Silver Medal** at the Competition & Exhibition Invention, Innovation & Design Exposition 2016 (IIDEX2016), Shah Alam: 20 – 23 September 2016. “The Performance of Modified LTS-Based Method in Face Recognition with Occluded Images”
14. **Bronze Medal** at the Competition & Exhibition Invention, Innovation & Design Exposition 2016 (IIDEX2016), Shah Alam: 20 – 23 September 2016. “The Jerings with Habbatus Sauda’ Plus”
15. **Bronze Medal** at the Competition & Exhibition Invention, Innovation & Design Exposition 2015 (IIDEX2015), Shah Alam: 27 – 30 April 2015. “Automatic BPNN Forecasting Database based on Hybrid Firefly Algorithm and Least Median of Squares”
16. **Silver Medal** at the Competition & Exhibition Invention, Innovation & Design Exposition 2015 (IIDEX2015), Shah Alam: 27 – 30 April 2015. “3 In 1: Pandan Home Fragrance, Insect Repellent & Furniture Cleaner”
17. **Silver Medal** at the International Exposition on Syariah Compliant Idea, Invention, Innovation & Design (ISCIID2014), Shah Alam: 26 – 27 November 2014. “Automatic Database of Robust Neural Network Forecasting”
18. **Bronze Award** at the International Exposition on Syariah Compliant Idea, Invention, Innovation & Design (ISCIID2014), Shah Alam: 26 – 27 November 2014. “Portable and Collapsible Travel Pail & Scoop”

19. **Best Award & Gold Medal** at the International Innovation, Invention & Design Competition & Conference 2014 (ICON2014), Taman Tamadun Islam, Kuala Terengganu: 16 October 2014. “Automatic Database of Robust Neural Network Forecasting”
20. **Silver Medal** at the International Innovation, Invention & Design Competition & Conference 2014 (ICON2014), Taman Tamadun Islam, Kuala Terengganu: 16 October 2014. “ Portable Baby Wash Pan”
21. **Silver Medal** at the Conference Competition Exhibition (CCE2014), Politeknik Seberang Perai, Penang: 24 – 25 June 2014. “Shrinkage Covariance Matrix as Gene Detector”
22. **Silver Medal** at the Competition & Exhibition Invention, Innovation & Design Exposition 2014 (IIDEX2014), Shah Alam: 27 – 30 April 2014. “System of Portable Firearm Device”
23. **Silver Medal** at the Competition & Exhibition Invention, Innovation & Design Exposition 2014 (IIDEX2014), Shah Alam: 27 – 30 April 2014. “Automatic Database of Robust Neural Network Forecasting”
24. **Silver Medal** at the Competition & Exhibition Invention, Innovation & Design Exposition 2014 (IIDEX2014), Shah Alam: 27 – 30 April 2014. “Automatic Pet Feeder with 7 – Timer Technology”
25. **Silver Medal** at the International Islamic University Malaysia Research, Invention and Innovation Exhibition 2012, held on 21st - 22nd February 2012. “Forensic Ballistics Specimen Identification System using Artificial Neural Network”

#### CONSULTATION

- Preliminary Study on Consumer Perceptions of Palm Oil, Department of Nutrition Unit, Malaysian Palm Oil Board (2015)
- Adviser for post-graduate research: Management & Science University (2013)
- Adviser for post-graduate research: UM Medical Faculty (2006 - 2008)
- Adviser for post-graduate research: UKM Medical Faculty (2008 - 2013)

#### INVITED SPEAKER

1. Invited speaker for the Postgraduate Student Workshop, Management & Science University (MSU), held on 11 May 2013. “Questionnaire Design”
2. Invited speaker for the Postgraduate Student Workshop, Management & Science University (MSU), held on 31 August 2013. “Questionnaire Design”
3. Invited speaker for the Postgraduate Student Workshop, Management & Science University (MSU), held on 13 October 2013. “Questionnaire Design”

## REVIEWER FOR INDEXED JOURNAL

1. IEEE Transactions on Neural Networks and Learning Systems
2. International Journal on Knowledge Based Systems
3. Journal of Quality Measurement and Analysis
4. Bulletin of the Malaysian Mathematical Sciences Society
5. Journal of King Saud University - Science

## REVIEWER FOR BOOK

1. Handbook on Statistical Methods for Designing and Analysing Experiments, Universiti Sains Malaysia Press.

## REVIEWER FOR INDEXED PROCEEDINGS

1. IEEE International Conference on Computing (ICOCO2023), held on 9 – 12 October 2023.
2. IEEE International Conference on Computing (ICOCO2022), held on 14 – 16 November 2022.
3. IEEE International Conference on Computing (ICOCO2021), held on 17 – 19 November 2021
4. 7<sup>th</sup> International Conference on Science & Social Research (CSSR2020), held on 9 – 10 December 2020.
5. IEEE Conference on e-Learning, e-Management and e-Services (IC3e2020), held on 17 – 19 November 2020.
6. IEEE Conference on Big Data & Analytics (ICBDA2020), held on 17 – 19 November 2020.
7. IEEE Conference on Open Systems (ICOS2020), held on 17 – 19 November 2020.
8. IEEE Conference on Wireless Sensors (ICWiSE 2020), held on 17 – 19 November 2020.
9. IEEE Conference on Applications, Information & Network Security (AINS2020), held on 17 – 19 November 2020.
10. IEEE Conference on Graphics & Media (GAME2020), held on 17 – 19 November 2020.
11. 6<sup>th</sup> International Conference on Science & Social Research (CSSR2019), held on 4 – 5 December 2019.
12. IEEE Conference on e-Learning, e-Management and e-Services (IC3e2019), held on 19 – 21 November 2019.
13. IEEE Conference on Big Data & Analytics (ICBDA2019), held on 19 – 21 November 2019.
14. IEEE Conference on Open Systems (ICOS2019), held on 19–21 November 2019.
15. IEEE Conference on Wireless Sensors (ICWiSE 2019), held on 19–21 November 2019.

16. IEEE Conference on Applications, Information & Network Security (AINS2019), held on 19–21 November 2019.
17. IEEE Conference on Graphics & Media (GAME2019), held on 19–21 November 2019.
18. 18<sup>th</sup> International Conference on Intelligent Software Methodologies, Tools, And Techniques (SOMET 2019), held on 23 – 25 September 2019.
19. 5<sup>th</sup> International Conference on Science & Social Research (CSSR2018), held on 5 – 6 December 2018.
20. IEEE Conference on Open Systems (ICOS2018), held on 21 – 22 November 2018.
11. IEEE Conference on Wireless Sensors (ICWiSE 2018), held on 21 – 22 November 2018.
12. IEEE Conference on Applications, Information & Network Security (AINS2018), held on 21 – 22 November 2018.
13. IEEE Conference on e-Learning, e-Management and e-Services (IC3e2018), held on 21 – 22 November 2018.
14. IEEE Conference on Big Data & Analytics (ICBDA2018), held on 21 – 22 November 2018.
15. 4<sup>th</sup> International Conference on Science & Social Research (CSSR2017), held on 6 – 7 December 2017.
16. IEEE Conference on Open Systems (ICOS2017), held on 13 – 14 November 2017.
17. IEEE Conference on Wireless Sensors (ICWiSE 2017), held on 13 – 14 November 2017.
18. IEEE Conference on Applications, Information & Network Security (AINS2017), held on 13 – 14 November 2017.
19. IEEE Conference on e-Learning, e-Management and e-Services (IC3e2017), held on 16 – 17 November 2017.
20. IEEE Conference on Big Data & Analytics (ICBDA2017), held on 16 – 17 November 2017.
21. 3<sup>rd</sup> International Conference on Science & Social Research (CSSR2016), held on 6 – 7 December 2017.
22. IEEE Conference on Open Systems (ICOS2016), held on 10 – 12 Oktober 2016.
23. IEEE Conference on Wireless Sensors (ICWiSE 2016), held on 10 – 12 Oktober 2016.
24. IEEE Conference on e-Learning, e-Management and e-Services (IC3e2016), held on 10 – 12 Oktober 2016.
25. IEEE Conference on Big Data & Analytics (ICBDA2017), held on 16 – 17 November 2016.
26. International Conference on Statistical Applications in Science, Business and Engineering (ICSSBE2015), held on 2 – 3 September 2015
27. IEEE Conference on Open Systems (ICOS 2015), held on 24 – 26 August 2015
28. IEEE Conference on Wireless Sensors (ICWiSE 2015), held on 24 – 26 August 2015
29. IEEE Conference on e-Learning, e-Management and e-Services (IC3e 2015), held on 24 – 26 August 2015
30. IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA 2014), held on 28 September – 1 October 2014

31. IEEE Conference on Open Systems (ICOS 2014), held on 26 – 28 October 2014
32. IEEE Conference on Wireless Sensors (ICWiSE 2014), held on 26 – 28 October 2014
33. IEEE Conference on e-Learning, e-Management and e-Services (IC3e 2014), held on 10 – 12 December 2014
34. IEEE Conference on Open Systems (ICOS 2013), held on 2 – 4 December 2013
35. IEEE Conference on e-Learning, e-Management and e-Services (IC3e 2013), held on 2 – 4 December 2013
36. IEEE Symposium on Humanities, Science & Engineering Research (SHUSER 2013), 23 – 26 June 2013
37. IEEE Business Engineering & Industrial Applications Colloquium (BEIAC 2013), held on 7 – 9 April 2013
38. IEEE Conference on Open Systems (ICOS 2012), held on 21 – 24 October 2012
39. IEEE Symposium on e-Learning, e-Management and e-Services (IS3e 2012), held on 21 – 24 October 2012
40. International Conference on Statistics in Science, Business and Engineering 2012(ICSSBE 2012), held on 10 – 12 September 2012
41. IEEE Symposium on Humanities, Science & Engineering Research (SHUSER2012), held on 24 – 27 June 2012

#### INTERNATIONAL / LOCAL CONFERENCE ORGANISATION

1. **Chairman** for Invention, Innovation & Design Exposition 2024 (iidex2024), UiTM Puncak Alam: 4 – 8 November 2024 <https://iidex.uitm.edu.my/2024>
2. **Past Chair** for IEEE International Conference on Computing (ICOCO2024), Kuching: 12 -14 December 2024. <https://ieeecomputer.my/icoco2024>
3. **Chairman** for Invention, Innovation & Design Exposition 2023 (iidex2023), UiTM Puncak Alam: 12 – 14 December 2023. <https://iidex.uitm.edu.my/2023>
4. **Vice Chairman** for 10<sup>th</sup> International Conference on Science & Social Research (CSSR2023), Sarawak: 6 – 7 November 2023. <http://cssr.uitm.edu.my/2023>
5. **Technical Programme Chair** for IEEE International Conference on Computing (ICOCO2023), Langkawi: 9 -12 October 2023. <https://ieeecomputer.my/icoco2023>
6. **Vice Chairman** for 9<sup>th</sup> International Conference on Science & Social Research (CSSR2022), Virtual: 14 – 15 December 2022. <http://cssr.uitm.edu.my/2022>
7. **Program Chair** for IEEE International Conference on Computing (ICOCO2022), Kota Kinabalu: 14 – 16 November 2022.
8. **Program Chair** for 38<sup>th</sup> IEEE International Conference on Data Engineering (ICDE2022), Virtual: 9 – 12 May 2022
9. **Vice Chairman** for 8<sup>th</sup> International Conference on Science & Social Research (CSSR2021), Virtual: 8 – 9 December 2021. <http://cssr.uitm.edu.my/2021>
10. **Program Chair** for IEEE International Conference on Computing (ICOCO2021), Virtual: 17 – 19 November 2021

11. **Technical Programme Committee** for 6<sup>th</sup> International Conference on Science & Social Research (CSSR2020), Virtual: 9 – 10 December 2020.  
<http://cssr.uitm.edu.my/2020>
12. **Technical Program Chair** for IEEE Conference on e-Learning, e-Management and e-Services (IC3e2020), Virtual: 17 – 19 November 2020.  
<https://ieeecomputer.my/ic3e2020>
13. **Technical Program Chair** for IEEE Conference on Big Data & Analytics (ICBDA2020), Virtual: 17 – 19 November 2020.  
<https://ieeecomputer.my/icbda2020>
14. **Technical Program Committee** for IEEE Conference on Open Systems (ICOS2020), Virtual: 17 – 19 November 2020.  
<https://ieeecomputer.my/icos2020>
15. **Technical Program Committee** for IEEE Conference on Wireless Sensors (ICWiSE 2020), Virtual: 17 – 19 November 2020.  
<https://ieeecomputer.my/icwise2020>
16. **Technical Program Committee** for IEEE Conference on Applications, Information & Network Security (AINS2020), Virtual: 17 – 19 November 2020  
<https://ieeecomputer.my/ains2020>
17. **Technical Program Committee** for IEEE Conference on Graphics & Media (GAME2020), Virtual: 17 – 19 November 2020. <https://ieeecomputer.my/game2020>
18. **Technical Programme Committee** for 6<sup>th</sup> International Conference on Science & Social Research (CSSR2019), Batu Ferringgi, Penang: 4 – 5 December 2019.  
<http://cssr.uitm.edu.my/2019>
19. **Technical Program Chair** for IEEE Conference on e-Learning, e-Management and e-Services (IC3e2019), Penang: 19–21 November 2019.  
<https://ieeecomputer.my/ic3e2019>
20. **Technical Program Chair** for IEEE Conference on Big Data & Analytics (ICBDA2019), Penang: 19–21 November 2019.  
<https://ieeecomputer.my/icbda2019>
21. **Technical Program Committee** for IEEE Conference on Open Systems (ICOS2019), Penang: 19–21 November 2019.  
<https://ieeecomputer.my/icos2019>
22. **Technical Program Committee** for IEEE Conference on Wireless Sensors (ICWiSE 2019), Penang: 19–21 November 2019.  
<https://ieeecomputer.my/icwise2019>
23. **Technical Program Committee** for IEEE Conference on Applications, Information & Network Security (AINS2019), Penang: 19–21 November 2019.  
<https://ieeecomputer.my/ains2019>
24. **Technical Program Committee** for IEEE Conference on Graphics & Media (GAME2019), Penang: 19–21 November 2019.  
<https://ieeecomputer.my/game2019>
25. **Technical Program Committee** for The 18<sup>th</sup> International Conference on Intelligent Software Methodologies, Tools, And Techniques (SOMET 2019), Kuching, Sarawak: 23 – 25 September 2019.  
<https://ieeecomputer.my/somet2019/>

26. **Technical Programme Book Committee** for 5<sup>th</sup> International Conference on Science & Social Research (CSSR2018), Kota Kinabalu: 5 – 6 December 2018.  
<http://cssr.uitm.edu.my/2018>
27. **Technical Program Chair** for IEEE Conference on e-Learning, e-Management and e-Services (IC3e2018), Langkawi: 21–22 November 2018.  
<https://ieeecomputer.my/ic3e2018>
28. **Technical Program Chair** for IEEE Conference on Big Data & Analytics (ICBDA2018), Langkawi: 21 – 22 November 2018.  
<https://ieeecomputer.my/icbda2018>
29. **Technical Program Committee** for IEEE Conference on Open Systems (ICOS2018), Langkawi: 21 – 22 November 2018.  
<https://ieeecomputer.my/icos2018>
30. **Technical Program Committee** for IEEE Conference on Wireless Sensors (ICWiSE 2018), Langkawi: 21 – 22 November 2018.  
<https://ieeecomputer.my/icwise2018>
31. **Technical Program Committee** for IEEE Conference on Applications, Information & Network Security (AINS2018), Langkawi: 21 – 22 November 2018.  
<https://ieeecomputer.my/ains2018>
32. **Judging Committee** for 4<sup>th</sup> International Conference on Science & Social Research (CSSR2017), Melaka: 6 – 7 December 2017.
33. **Technical Program Committee** for IEEE Conference on Open Systems (ICOS2017), Miri: 13 – 14 November 2017.
34. **Technical Program Committee** for IEEE Conference on Wireless Sensors (ICWiSE 2017), Miri: 13 – 14 November 2017.
35. **Technical Program Committee** for IEEE Conference on Applications, Information & Network Security (AINS2017), Miri: 13 – 14 November 2017.
36. **Program Chair** for IEEE Conference on e-Learning, e-Management and e- Services (IC3e2017), Kuching: 16 – 17 November 2017.
37. **Technical Program Committee** for IEEE Conference on Big Data & Analytics (ICBDA2017), Kuching: 16 – 17 November 2017.
38. **Publication Committee** for 3<sup>rd</sup> International Conference on Science & Social Research (CSSR2016), Putrajaya: 6 – 7 December 2017.
39. **Technical Program Committee** for IEEE Conference on Open Systems (ICOS2016), Langkawi: 10 – 12 Oktober 2016.
40. **Technical Program Committee** for IEEE Conference on Wireless Sensors (ICWiSE 2016), Langkawi: 10 – 12 Oktober 2016.
41. **Program Chair** for IEEE Conference on e-Learning, e-Management and e- Services (IC3e2016), Langkawi: 10 – 12 Oktober 2016.
42. **Technical Program Committee** for IEEE Conference on Big Data & Analytics (ICBDA2016), Kuching: 16 – 17 November 2016.
43. **Technical Program Chair** for International Conference on Statistical Applications in Science, Business and Engineering (ICSSBE2015), Putrajaya: 2 – 3 September 2015
44. **Technical Program Chair** for IEEE Conference on Open Systems (ICOS 2015), Melaka: 24 – 26 August 2015

45. **Technical Program Chair** for IEEE Conference on Wireless Sensors (ICWiSE 2015), Melaka: 24 – 26 August 2015
46. **Program Chair** for IEEE Conference on e-Learning, e-Management and e- Services (IC3e 2015), Melaka: 24 – 26 August 2015
47. **Technical Program Chair** for IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA 2014), Kota Kinabalu: 28 September – 1 October 2014
48. **Technical Program Chair** for IEEE Conference on Open Systems (ICOS 2014), Subang Jaya: 26 – 28 October 2014
49. **Technical Program Chair** for IEEE Conference on Wireless Sensors (ICWiSE 2014), Subang Jaya: 26 – 28 October 2014
50. **Technical Program Chair** for IEEE Conference on e-Learning, e-Management and e-Services (IC3e 2014), Melbourne, Australia 10 – 12 December 2014
51. **Program Chair** for IEEE International Conference on e-Learning, e-Management and e-Services (IC3e 2013), Kuching, Sarawak: 2 – 4 December 2013
52. **Technical Program Chair** for IEEE Conference on Open Systems (ICOS 2013), Kuching, Sarawak: 2 – 4 December 2013
53. **Program Committee** for i-Statistics 2013, Faculty Computer & Mathematical Sciences, Shah Alam: 8 June 2013
54. **Technical Program Chair** for IEEE Symposium on Humanities, Science & Engineering Research (SHUSER 2013), Penang: 23 – 26 June 2013
55. **Technical Program Chair** for IEEE Business Engineering & Industrial Applications Colloquium (BEIAC 2013), Langkawi: 7 – 9 April 2013
56. **Technical Program Chair** for IEEE Conference on Open Systems (ICOS 2012), Kuala Lumpur: 21 – 24 October 2012
57. **Technical Program Chair** for IEEE Conference on IEEE Symposium on e-Learning, e-Management and e-Services (IS3e 2012), Kuala Lumpur: 21 – 24 October 2012
58. **Technical Program Chair** for IEEE Symposium on Humanities, Science & Engineering Research (SHUSER 2012), Kuala Lumpur: 24 – 27 June 2012

<b>EXAMINER (EXTERNAL)</b>				
<b><i>Student / Book (University)</i></b>	<b><i>Title</i></b>	<b><i>Level</i></b>	<b><i>Year</i></b>	<b><i>Status</i></b>
Raihan binti Maskuriy (UTM)	Smart Construction Waste Management Framework Using Building Information Modelling and Internet of Things	PhD	2024	Completed
Mr. Ngo Tung Son (UTP)	A Hybrid Compromise Programming Based Genetic Algorithm for Multi-Objective Optimization	PhD	2024	Completed
Mohamed Cassim Alibutto (UUM)	Optimized Clustering with Modified k-Means Algorithm	PhD	2020	Completed
Fadya Ramadan M.Shakim (UPSI)	Development and Evaluation Libyan Energy Generation Model using Robust Partial Least Square - Structural Equation Modelling (RpLs-SEM) through Winsorization Method	PhD	2019	Completed
Universiti Sains Malaysia	Handbook on Statistical Method for Designing and Analysing Experiments	Book	2019	Completed

<b>EXAMINER (INTERNAL)</b>				
<i><b>Student (University)</b></i>	<i><b>Title</b></i>	<i><b>Level</b></i>	<i><b>Year</b></i>	<i><b>Status</b></i>
Muhammad Hasbullah bin Mohd Razali (UiTM)	An Improved Ant Colony Optimization Decision Tree Algorithm for Imbalanced Data Sets	PhD	2024	Completed
Hezlin Aryani Abd Rahman (UiTM)	Distance-Based Undersampling for Imbalance Dataset: A Comprehensive Simulation Study	PhD	2023	Completed
Noraini Seman (UiTM)	Coalition of Genetic Algorithms and Artificial Neural Network for Isolated Spoken Malay Speech Recognition	PhD	2011	Completed
Herma Mohd Hanif (UiTM)	Enhancing Individual Hotelling T Control Charts in Detecting Excessive Household Water Consumption	MSc (Statistics) by Research	2014	Completed