



Associate Professor Dr. Marina Yusoff is an AI lead researcher and academican at Universiti Teknologi MARA (UiTM), Malaysia.

She is now a Deputy Director for the Institute for Big Data Analytics and Artificial Intelligence (IBDAAI). She holds a Ph.D. in Information Technology and Quantitative Sciences, with a specialization in Intelligent Systems. She was a former Senior Information Technology Executive at SIRIM Berhad. Her previous roles were at HeiTech Padu Berhad under Software Alliances (IBM). Dr Marina has a lifelong commitment to advancing technology and addressing real-world challenges through innovative research in AI.

She is internationally recognized through appointments as an Adjunct Associate Professor at Sohar University, Oman, and Visiting Professor at Eurasian National University, Kazakhstan.

Her work focuses on enhancing Nature-Inspired Computational Optimization, leading to improvements in deep learning, machine learning, particle swarm optimization, genetic algorithms, ant colony optimization, the firefly algorithm, and cuckoo search.

Her expertise has been demonstrated by leading 14 research grants, totaling 37 grants worth over 11 million Malaysian Ringgit, and over 100 publications in indexed journals, conference proceedings, and books.

Dr. Marina is a sought-after AI solution provider, trainer, and speaker in AI and data analytics worldwide, with AI research specialties in healthcare, oil and gas, fintech, social media analytics, and intelligent system development. She delivers cutting-edge AI products and services, providing AI models and demonstrating successful deployment of AI solutions. Her contributions to AI, optimization, machine learning, deep learning, and data solutions are remarkable.



## ADDRESS

Institute for Big Data Analytics and Artificial Intelligence (IBDAAI)  
Universiti Teknologi MARA, 40450 Shah Alam, Malaysia  
Cell-Phone =:019-2692275  
Email: [marina998@uitm.edu.my](mailto:marina998@uitm.edu.my)

Faculty of Computer and Mathematical Sciences

## Area of Expertise

### Artificial Intelligence

(Nature-Inspired Computational Optimization,  
Machine Learning Deep Learning  
Data Analytics)

**Scopus H-Index 13**  
**Citation (Scopus) 513**

**WoS Index 7**

**Google Scholar Index 15**  
**Citation 883**

**Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=23391662400>

**Linkedin :** <https://www.linkedin.com/in/dr-marina-yusoff-38286537/>

**Google Scholar:** <https://scholar.google.com/citations?user=5D5fxC0AAAAJ&hl=en>

**UiTM Expert:** <https://expert.uitm.edu.my/V2/page-detail.php?id=qLB7oTKXIB3+thEGDhab0FNG4PTM9y0En/ZqYjYVXJk=>

## Current Position

Deputy Director, Institute for Big Data Analytics and Artificial Intelligence (IBDAAI), Universiti Teknologi MARA.

Head of Postgraduate for Institute for Big Data Analytics and Artificial Intelligence, Universiti Teknologi MARA.

Senior Fellow Researcher, Institute for Big Data Analytics and Artificial Intelligence (IBDAAI), Universiti Teknologi MARA.

Adjunct Associate Professor, Sohar University, Oman

Visiting Professor, L. N. Gumilev Eurasian National University, Kazakhstan.

## Academic Qualifications

Bachelor Hons Computer Science, University of Science Malaysia (USM), 1996

Master of Science (Information Technology) UiTM, 2003.

PhD in Information Technology and Quantitative Sciences (Intelligent Systems), UiTM, 2011.

## Industrial Experience

**Company Name**      **SIRIM Berhad**

Designation:          Senior IT Executive

Date:                    2000 - 2004

Job Description:

Managing, monitoring, creating, analysis, design, system documentation, and system implementation using ASP, VB, Forte, and Java in the Web Development Environment. Trainer for the developed software and systems

Project List:

- Leave Management System (cover 15 types of leaves)
  - Personalization System (Web-based)
  - Testing Management System (Web-based)
  - Portal Development
  - Data Warehouse Development
- 

**Company Name:**      **Heitech Padu Berhad (Software Alliances (IBM))**

Designation:          Analyst Programmer/System Analyst

Start Date:            1996 - 2000

Job Description:

Planning, monitoring, analysis, design, coding, system documentations and system's implementation for Heitech Padu Berhad, Permodalan Nasional Berhad and Road Transport Department. Trainer for Lotus Domino Administrator and Designer as well as application developer.

Project List:

- Procurement Management System
- Room Booking System
- Road Transport Department Up front System
- Asset Management
- Project Monitoring System
- Discussion Management

## Subject Taught

### Bachelor's degree

- Computational Optimization and Applications
- Machine Learning (**Kazakhstan**)
- Fundamentals of Artificial Intelligence
- Artificial Neural Network
- Logic and Artificial Intelligence
- Evolutionary Algorithms
- Data Mining
- Final Year Project (Intelligent System)
- Final Year Project (Information Technology)

### Master

- Advanced Decision Support System
- Decision Support System (**Kazakhstan**)
- Advanced Knowledge Management Technology
- Information Intelligence
- Research Methodology in Data Science

## Resource Person (Course)

1. Nature-Inspired Computing
2. Intelligent System Development
3. Artificial Neural Network
4. Special Topics
5. Evolutionary Algorithm
6. Optimization Algorithm and Applications
7. Research Methodology in Data Sciences
8. Optimization with Nature-Inspired Computing

## HONOURS/ AWARD

<b>Special Award</b>	<ul style="list-style-type: none"> <li>• A recipient of the <b>Best (Special Needs Innovation)</b> award for product Autisense (VIC24) (2024)</li> <li>• A recipient of <b>Top 5-Special Award</b> for Autisense, VIC24 (2024)</li> <li>• <b>Excellent Service Award</b>, TNC Research and Innovation (2023)</li> <li>• A recipient of The <b>Highest Industry Grant Award</b>, IBDAAI (2022)</li> <li>• A recipient of The <b>Highest Journal Publication Award</b>, IBDAAI (2022)</li> <li>• A recipient of <b>Publishing Award with Industry Collaborator</b>, IBDAAI (2022)</li> <li>• A recipient of <b>Special Award, Design and Process Category</b>, Acoustic Surveillance Intrusion Detection System (2021)</li> <li>• <b>Best Researcher Award</b>, Faculty of Computer and Mathematical Sciences (2021)</li> <li>• <b>Excellence Researcher Award</b>, International Conference in Engineering, Computing and Applied Sciences (2018)</li> <li>• <b>Academic Leadership Award</b> of Faculty of Computer and Mathematical Science (2016)</li> <li>• <b>Excellence Service Award</b> - APC (2016)</li> <li>• A recipient of <b>Special Jury Award</b>, Excellence Award in Industry, Community &amp; Alumni Relations. (APKIM) 2014, Science on Wheels, 2014</li> <li>• <b>Excellence Service Award</b> - APC (2006)</li> </ul>
<b>Best Paper Award</b>	<ul style="list-style-type: none"> <li>• Best Paper Award Data Analytics and Technologies (DA&amp;T) Track, Comparison Analysis of LSTM and CNN Variants with Embedding Word Method for Sentiment Analysis on Food Consumption Behaviour (2023)</li> <li>• The 6th International Conference on Soft Computing in Data Science (2021)</li> <li>• Best Paper Award, 12<sup>th</sup> International in Power Engineering, Optimization and Computing Conference (2018)</li> </ul>
<b>Gold Award</b>	<ul style="list-style-type: none"> <li>• A recipient of Gold Medal Award for Autisense, VIC24 (2024)</li> <li>• A recipient of Gold Medal Award from UTEMex (2021)</li> <li>• A recipient of Gold Medal Award, ASIDs for Wildlife Reservation, IIDEX.</li> </ul>
<b>Silver &amp; Bronze Award</b>	<ul style="list-style-type: none"> <li>• A recipient of Silver Award for RouteSense, VIC24 (2024)</li> <li>• A recipient of Silver Award, Ptcac: Digitalizing Endurance Test, IIDEX (2020)</li> <li>• A recipient of Silver Award – Acoustic Surveillance Intrusion Detection System, IIDEX (2018)</li> <li>• A recipient of Silver Award, Intelligent Housekeeping Trolley (i-HOT), IIDEX (2018)</li> <li>• A recipient of Silver Award, House Optimization Purchasing Kit (HOP-Kit) – IIDEX (2017)</li> <li>• A recipient of Silver Award, Shortest Time Flood Evacuation System Based on Dynamic Vehicle Routing Problem (eDVRP) Model, IID (2016)</li> <li>• A recipient of Silver Medal, Single T-Predictor, IID (2013)</li> <li>• A recipient of Silver Medal, Intelligent Supermarket Navigator, IID (2013)</li> <li>• A recipient of Bronze Award, An Intelligent Prediction Model for Building's Damage due to Earthquake Event, ID (2016)</li> <li>• A recipient of -Bronze Award, Timber Joint Strength Predictor, IID (2016)</li> <li>• A recipient of Bronze Medal, Composite Joint Predictor, IID (2015)</li> <li>• A recipient of Bronze Medal, Mosquito Larvae Identification System (MLIS), IID (2015)</li> <li>• A recipient of Silver Medal, Vehicle Routing Optimizer (VRO), IID (2010)</li> </ul>

**CONTRIBUTION AS AN EXPERT AI AND DATA IN  
INDUSTRY SOLUTION**

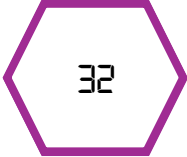
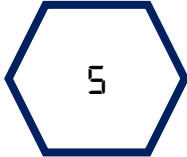

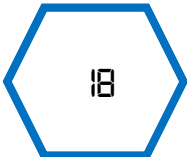
**(PROJECT LEADER: RM69,000 )**

**CONTRIBUTION AS AN EXPERT AI AND DATA IN  
INDUSTRY SOLUTION**

**(PROJECT LEADER)**

**TRAINING AND EXPERIENCE  
SHARING TO INDUSTRIES, UNVERSTIES AND  
COMMUNITIES**

## RESEARCH GRANTS ACHIEVEMENT

 <b>No of Projects (Completed)</b>	 <b>No of Projects (On going)</b>	 <b>Project Leader</b>	 <b>Member</b>
<b>Total Grant/ Contract Research as Head</b>		<b>RM 2,911,841</b>	
<b>Total Grant/Consultancy Value</b>		<b>RM 11,282,521</b>	

National Research				International Research			
Completed		Active		Completed		Active	
Head	Member	Head	Member	Head	Member	Head	Member
9	15	2	2	3	-	1- Wating for letter of appointment	1

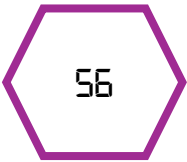
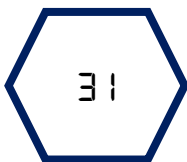

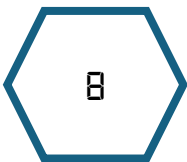
LIST OF GRANTS					
No	Role	Title	Grant Type	Total (RM)	Status
1	Project Leader	Optimizing the Feature Selection Method for Early Predictive Modeling of Chronic Diseases	International Grant (SRP)	25,000	Waiting for Appointment Letter and MoA signing
2	Project Leader	Analisis Kewangan Koperasi Melalui Kecerdasan Buatan (AI)	Contract Research	49,920	On going
3	Project Leader	Adsorption Capacity Prediction and Forecasting Analytics for CO <sub>2</sub> Dehydration Units Remaining Life Monitoring	Industrial Grant (Petronas)/ Contract Research	1,524,364.80	On going
4	Project Leader	Operational Monitoring Dashboard for Oil and Gas Platform Using Dynamic Predictive Analytics: Automated Drier Bed Adsorption Capacity	Industrial Grant (Petronas)/ Contract Research	764,556.80	Completed
5	Project Leader	Development of Feature Selection Optimization Model on Histopathology Images for Cancerous Segmentation	International Grant (SRP)	17,850	Completed
6	Project Leader	Peningkatan Prestasi Nasional Tim Hoki Smk T Amir Hamzah Indrapura Melalui Program Digitalisasi Perangkat Dan Lapangan Pertandingan Di Kecamatan Air Putih Kabupaten Batubara Provinsi Sumatera Utara	PBT (International Grant)	5,259.33	Completed
7	Project Leader	Implementasi Environmental Monitoring System (EMS) Sebagai Instrumentasi Menuju Ke Kampus	PBT (International Grant)	21,140	Completed
8	Project Leader	Development of Artificial Intelligence (A.I.) Teleradiology Software Solutions for Digital X-Ray Reading	Industrial Grant (FOMEMA)	119,750	Completed
9	Project Leader	Low-Cost Acoustic Surveillance Intrusion Detection System for Wildlife Protection (ASIDs)	Industrial Grant (Malaysian Technical Standards Forum Bhd, (MCMC)	69,000	Completed
10	Project Leader	Timber Opinionated Text Analytic Model Inspired by Associative Learning Polyphagous Grasshopper	FRGS	73,000	Completed
11	Project Leader	Development of Teaching Style Model with Neuro Linguistic	ARAS	20,000	Completed

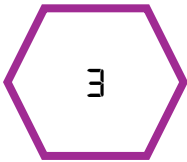
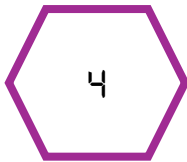
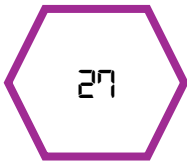
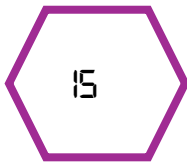


		Programming Adaptation for Programming Course			
12	Project Leader	Urbanization And Industrialization: Optimizing Dynamic Emergency Evacuation with Big Graph Decomposition Algorithm	FRGS	36,200	Completed
13	Project Leader	Exploiting Evolutionary Computational Models in Dynamic Evacuation Problem	Internal Grant	32,000	Completed
14	Project Leader	An Optimum Green Polymer Composition Sing a Hybrid Firefly Algorithm-Cuckoo Search and Finite Element	Mitra Perdana	20,200	Completed
15	Project Leader	A Novel Classifier for Tropical and Plantation Hardwood Timber Grading Using Ant Colony Optimization and Artificial Bee Colony	BESTARI	20,200	Completed
1	Member	Deep Learning Multivariate Criterion Optimizer Occluded Object Detection Model for Medical Images	FRGS	108,400	On going
2	Member	Enhanced Forecast Accuracy of Exponential Smoothing Model Using Adaptive Moment Estimation Optimization Algorithm for Daily Cases of Covid-19 Prediction	FRGS	74,000	On going
3	Member	Development And Analysis of Augmented Reality in Education for Engineering Equipment Using Mobile Apps. Comparison Study Malaysia Indonesia	International Grant (SRP)	30,000	On going
4	Member	Time-Series Learning Pattern Atmospheric Prediction Models and Visualization for South China Sea Based on Gfs and Ecmwf Dataset	Industrial grant	100,000	Completed
5	Member	Periodic Report Intangible Culture Heritage (Ich) Asia Pacific Region (ASPAC) Ke UNESCO	Government	20,000	Completed
6	Member	Cyber Artemotional Model in Cyber Security Employees' Ethical Competence	FRGS	66,600	Completed
7	Member	Development of 2 In 1 Housekeeping Trolley (Hot - 1)	SYNERGY	15,000	Completed
8	Member	Non-Recurrent Congestion Recovery Model Inspired by	FRGS	68,000	Completed

		Distributed House-Hunting in Themnothorax Ants			
9	Member	Program Pembangunan Produk Kejuruteraan Kayu Sebagai Struktur di Dalam Pembinaan	Government	5,000,000	Completed
10	Member	Neuromuscular Impairment in Function of Gait Asymmetries	NRGS	343,000	Completed
11	Member	Optimization Of Carbon Dioxide (CO <sub>2</sub> ) Diffusion in Rubber Foam Via Genetic Algorithm (GA) Intelligence Method	RAG	20,000	Completed
12	Member	Optimal Damage's Prediction Model for Concrete Building Due To Seismic Zonation	FRGS	94,800	Completed
13	Member	Development of River Flow Prediction Using Hybrid Support Vector Machine – Particle Swarm Optimization Incorporating Climate and Landuse Change at Upstream of Bertam Catchment	FRGS	133,000	Completed
14	Member	Evacuation Routing Optimizer (EROP) -E-Science Fund	E-Science Fund	110,000	Completed
15	Member	Advanced Analytics Engineering Centre	Government	250,000	Completed
16	Member	Kajian Penggunaan Kayu Dalam Pembinaan Di Malaysia, MTIB	Contract Research	500000	Completed
17	Member	Research on The TNB Smart Meter Pilot Implementation and Customization with Respect to Customer Profilingtnb R&D	Contract Research	396,504.8	Completed
18	Member	Kajian Penetapan Yuran Di IPTS., Ministry of Education, Malaysia.	Contract Research	110,000	Completed
		<b>Total Amount</b>		<b>10,237,746</b>	

CONSULTANCY					
	Role	Title	Type	Total (RM)	Status
1	Leader	Kursus Kepada Cybersecurity Malaysia (AI Foundations and AI in Cybersecurity	Training	30,000	On going
2	Member	CIMB Islamic UiTM Entrepreneurship Programme Benefiting	Knowledge Transfer Program	1,000,000	Completed
3	Member	Pembangunan Modul Pengajian Pusat Perlindungan Muallaf Baitus Salam (Digital and AI solution)	Expert Panel	23,488	Completed
4	Member	Kursus Asas Pengajaran Guru & Warden Pembimbing Baitus Salam (Siri 2) (Digital and AI solution)	Training	19,588	Completed
5	Member	Seminar Fire Resistance Timber Engineering: Introduction and Awareness	Seminar / Conference	1,699	Completed
		<b>Total Amount</b>		<b>1,044,775</b>	

PUBLICATIONS			
			
Total Number of Journal	SCOPUS/ WoS/Journals (Current Grade DS14, Since 2020)	Proceedings/ Book Chapter	Book

Bilangan Jurnal Berindek			
Dalam Negara		Luar Negara	
			
Main Author	Co-Author	Main Author	Co-Author

JOURNAL
<ol style="list-style-type: none"> <li>1. <b>Yusoff, M.</b>, Mahmud, Y., Azmi, P. A. R., &amp; Sallehud-din, M. T. M. (2025). The improvement of SMOTE-ENN-XGBoost through Yeo Johnson strategy on Dissolved Gas Analysis dataset. Energy Reports, 13, 6281-6290. <b>(Q2)</b></li> <li>2. Abidin, A. W. Z., Ariffin, N. H. M., Nasruddin, Z. A., Habidin, N. F., &amp; Yusoff, M. (2025). Evaluating and Modelling Artificial Intelligence and Emotional Intelligence to Improve Cybersecurity Employee Ethical Competence Model. Journal of Advanced Research Design, 130(1), 13-25. (Scopus)</li> <li>3. Azmi, P. A. R., <b>Yusoff, M.</b>, &amp; Sallehud-din, M. T. M. (2025). Improving transformer failure classification on imbalanced DGA data using data-level techniques and machine learning. Energy Reports, 13, 264-27. <b>(Q2)</b></li> <li>4. <b>Yusoff, M.</b>, Sallehud-din, M. T. M., Azmi, P. A. R., Mohd, N. H., &amp; Ariffin, C. K. (2025) An In-Depth Review of Predictive Methods for Oil and Gas Applications, Journal of Advanced Research in Applied Sciences and Engineering Technology, 50(2), 260 – 278 (Scopus)</li> <li>5. Mojahid, H. Z., Mohamad Zain, J., Yusoff, M., Basit, A., Jumaat, A. K., &amp; Ali, M. (2025). Examining the impact of feature selection techniques on machine and deep learning models for the prediction of COVID-19. Malaysian Journal of Computing (MJoC), 10(1), 2135-2158. (MYCITE)</li> <li>6. Ariffin, N. H. M., Iqbal, M. I. M., <b>Yusoff, M.</b>, &amp; Zulkefli, N. A. M. (2025). A Study on the Best Classification Method for an Intelligent Phishing Website Detection</li> </ol>

- System. Journal of Advanced Research in Applied Sciences and Engineering Technology, 48(2),197 - 210. (Scopus)
7. Aziz, A. A., **Yusoff, M.**, Yaacob, W. F. W., & Mustaffa, Z. (2024). Repeated time-series cross-validation: A new method to improved COVID-19 forecast accuracy in Malaysia. MethodsX, 13, 103013. (Q2)
  8. **Yusoff, M.**, Sallehud-din, M. T. M., Azmi, P. A. R., Ariffin, N. H. M., & Karunakumar, C. (2025). An In-Depth Review of Predictive Methods for Oil and Gas Applications. Journal of Advanced Research in Applied Sciences and Engineering Technology, 50(2), 260-278. (Scopus)
  9. Haryanto, T., Al Farel, H., Suhartanto, H., Kusmardi, K., **Yusoff, M.**, Zain, J. M., & Wibisono, A. (2024). A robust transfer learning approach for colorectal cancer identification based on histopathology images. Research on Biomedical Engineering, 40(3), 753-767. (Scopus)
  10. **Yusoff, M.**, Sharif, M. Y., & Sallehud-din, M. T. M. (2024). Topology Approach for Crude Oil Price Forecasting of Particle Swarm Optimization and Long Short-Term Memory. International Journal of Advanced Computer Science and Applications, 15(1). (Q4)
  11. Mojahid, H. Z., Zain, J. M., Basit, A., **Yusoff, M.**, & Ali, M. (2024). A Review on Extensively Used Machine Learning Techniques for the Prediction of Covid-19. Suranaree Journal of Science & Technology, 31(1). (Q4)
  12. Noh, S. S. M., Ibrahim, N., Mansor, M. M., & **Yusoff, M.** (2023). Hybrid filtering methods for feature selection in high-dimensional cancer data. International Journal of Electrical and Computer Engineering, 13(6), 6862-6871. (Scopus)
  13. Rozaini, N. N., Ariffin, N. H. M., & **Yusoff, M.** (2024). Baristax: The Coffee Selection Recommender Bot. Journal of Advanced Research in Applied Sciences and Engineering Technology, 42(1), 180-190. (Scopus)
  14. Haryanto, T., Suhartanto, H., Murni, A., Kusmardi, K., **Yusoff, M.**, & Zain, J. M. (2024). SCOV-CNN: A Simple CNN Architecture for COVID-19 Identification Based on the CT Images. JOIV: International Journal on Informatics Visualization, 8(1), 175-182. (Scopus)
  15. A Amelia, BV Sundawa, **M Yusoff**, JBM Zain,A Azis, R Roslina, BA Pribadi, Performance Analysis of Environmental Monitoring System (EMS) towards POLMEDs Green Campus. International Journal on Advanced Science, Engineering & Information, 2023, 13(5). (Scopus)
  16. R Roslina, PH Putra, A Amelia, YA Dalimunthe, JBM Zain, **M Yusoff**, TCSC Implementasi Sistem Informasi Menuju SMART Desa di Desa Banyumas Kecamatan Stabat Kabupaten Langkat, Jurnal Pengabdian kepada Masyarakat Nusantara, 2023, 4 (4), 3234-324
  17. Azrag, M.A.K, Zain, J.M., Kadir, T.A.A, **Yusoff, M**, Hai, T. Review: machine and deep learning methods in Malaysia for COVID-19, Indonesian Journal of Electrical Engineering and Computer Science, 2023, 31(1), pp.514–520. (Scopus)
  18. Zaini, M.N, **Yusoff, M.**, Sadikin, M.A, Forest Sound Event Detection with Convolutional Recurrent Neural Network-Long Short-Term Memory, Journal of Advanced Research in Applied Sciences and Engineering Technology, 2023, 32(2), pp. 242–254 (Scopus)
  19. Mahfuz, N.M., Suhartanto, H.Kusmardi, K. **Yusoff, M.** Clustering performance using k-modes with modified entropy measure for breast cancer, Indonesian Journal of Electrical Engineering and Computer Science, 2023, 32(2), pp. 1150–1158 (Scopus)
  20. Siti Sarah Md Noh, Nurain brahim, Mahayaudin M Mansor, **Marina Yusoff**, Hybrid filtering methods for feature selection in high-dimensional cancer data, International Journal of Electrical and Computer Engineering 13(6), 6862 - 687, 2023. (Scopus)

21. **Yusoff, M.**, Haryanto, T., Suhartanto, H., Mustafa, W. A., Zain, J. M., & Kusmardi, K. Accuracy Analysis of Deep Learning Methods in Breast Cancer Classification: A Structured Review. *Diagnostics*, 13(4), 683, 2023. **(Q1)**
22. Azrag, M. A. K., Zain, J. M., Kadir, T. A. A., Yusoff, M., Jaber, A. S., AbdIrman, H. S. M., ... & Husain, M. S. B. Estimation ff Small-Scale Kinetic Parameters of Escherichia Coli (E. Coli) Model by Enhanced Segment Particle Swarm Optimization Algorithm Ese-PSO. *Processes*, 11(1), 126, 2023. **(Q2)**
23. Hai, T., Liu, Y., Zhou, J., Li, S., Zain, J. M., Yusoff, M., ... & Abd El-Gawad, H. H. (2023). Transient performance simulation and technoeconomic assessment of a smart building energy plant driven by solar energy coupled to a reversible heat pump. *Journal of Cleaner Production*, 405, 136946. **(Q1)**
24. Azrag, M. A. K., Zain, J. M., Kadir, T. A. A., Yusoff, M., & Hai, T. (2023). Review: machine and deep learning methods in Malaysia for COVID-19. *Indonesian Journal of Electrical Engineering and Computer Science*, 31(1), 514-520. (Scopus)
25. Mahfuz, N. M., **Yusoff, M.**, & Idrus, Z. (2023). Clustering Heterogeneous Categorical Data Using Enhanced Mini Batch K-Means with Entropy Distance Measure. *Int. J. Electr. Comput. Eng*, 13(1), 1048-1059. (Scopus)
26. Hamid, M. H. A., **Yusoff, M.**, & Mohamed, A. (2022). Survey on Highly Imbalanced Multi-Class Data. *International Journal of Advanced Computer Science and Applications*, 13(6). 211-229. **(Q4)**
27. Zamzari, N.Z., Kassim, M.Yusoff, Analysis and Development of IoT-Based Aqua Fish Monitoring System, *International Journal of Emerging Technology and Advanced Engineering*, 2022, 12(10). (Scopus)
28. Nadiyah Abdul Rahman, **Yusoff, M.**, HOG and Haralick Feature Extractions with Machine Learning Methods for Covid-19 X-Ray Image Classification", Volume 70, Issue 09, *International Journal of Engineering Trends and Technology*", 2022, ISSN: 2231-5381 (Scopus)
29. Ismail, A.A., **Yusoff, M.** An Efficient Hybrid LSTM-CNN And CNN-LSTM with Glove for Text Multi-Class Sentiment Classification In Gender Violence, *International Journal of Advanced Computer Science And Applications*, 2022, 13(9), 85363. **(Q4)**
30. Mahfuz, N. M., **Yusoff, M.**, Nordin, M. S., & Ahmad, Z. (2022). Firefly Algorithm with Mini Batch K-Means Entropy Measure for Clustering Heterogeneous Categorical Timber Data, *International Journal of Advanced Computer Science and Applications* 13(7). pp.461-468. **(Q4)**
31. Afendi, M. A. S. M., & **Yusoff, M.** (2022). A sound event detection based on hybrid convolution neural network and random forest. *IAES International Journal of Artificial Intelligence*, 11(1), 121. (Scopus)
32. **Yusoff, M.**, Saaidi, M. S. I., Afendi, A. S. M., & Hassan, A. M. (2021). Tuberculosis X-Ray Images Classification based Dynamic Update Particle Swarm Optimization with CNN. *Journal of Hunan University Natural Sciences*, 48(9).
33. Muhd Aqmal Afiq Adnan, Marina Yusoff, (2020). Evaluation of Convolutional Neural Network Models for Food Images Detection, *International Journal of Emerging Trends in Engineering Research*, ISSN 2347 – 3983.

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## PROCEEDINGS/ BOOK CHAPTERS

1. Mojahid, H. Z., Zain, J. M., **Yusoff, M.**, Basit, A., Jumaat, A. K., & Ali, M. (2024, December). Refining COVID-19 Biomarker Classification through Automated LASSO-PCA Feature Selection. In 2024 IEEE 22<sup>nd</sup> Student Conference on Research and Development (SCOReD) (pp. 675-680). IEEE. (Scopus)
2. Shudayfat, E. A., Alazaidah, R., Aljaidi, M., **Yusoff, M.**, Al-Safarini, M. Y., & Alidmat, O. (2023, December). Human-Computer Interaction in Augmented Reality: Applications and Challenges. In 2023 2<sup>nd</sup> International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEI) (pp. 1-6). IEEE(Scopus)
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4. Alazaidah, R., Hassan, M., Al-Rbabah, L., Samara, G., & **Yusof, M.** (2023, December). Utilizing Machine Learning in Medical Diagnosis: Systematic Review and Empirical Analysis. In 2023 24<sup>th</sup> International Arab Conference on Information Technology (ACIT) (pp. 1-9). IEEE. (Scopus)
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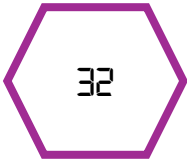
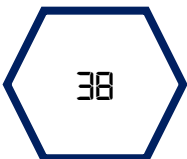
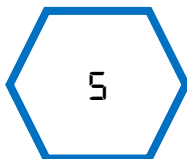
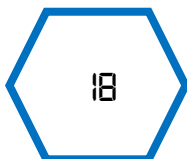
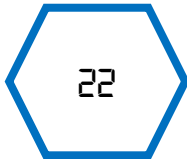
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	<b>Title</b>	<b>Links</b>
1	Soft Computing in Data Science: 7th International Conference, SCDS 2023, Published by Springer	<a href="https://www.amazon.ca/Soft-Computing-Data-Science-International/dp/9819904048/ref=monarch_sidesheet_image">https://www.amazon.ca/Soft-Computing-Data-Science-International/dp/9819904048/ref=monarch_sidesheet_image</a>
2	Machine Learning and Deep Learning: Tools for Pattern Recognition	Softcopy (free e-book)
3	InCIEC 2014: Proceedings of the International Civil and Infrastructure Engineering Conference (2014) Published by Springer	<a href="https://www.amazon.ca/InCIEC-2014-Proceedings-International-Infrastructure/dp/9812872892/ref=monarch_sidesheet_title">https://www.amazon.ca/InCIEC-2014-Proceedings-International-Infrastructure/dp/9812872892/ref=monarch_sidesheet_title</a>
4	InCIEC 2013: Proceedings of the International Civil and Infrastructure Engineering Conference (2013) Published by Springer	<a href="https://www.amazon.com/InCIEC-2013-Proceedings-International-Infrastructure-ebook/dp/B00HSDPLW4/ref=monarch_sidesheet_title">https://www.amazon.com/InCIEC-2013-Proceedings-International-Infrastructure-ebook/dp/B00HSDPLW4/ref=monarch_sidesheet_title</a>
5	Rahsia Disebalik A+ Final Year Project	Softcopy (free e-book)
6	Apa Khabar Diriku? 4 Langkah Mudah Kenali & Kendali Emosi	Softcopy (free e-book)
7	Strategic Planning Book for Institute for Infrastructure Engineering and Sustainable Management	Hardcopy
8	Editorial of Essentials of	Hardcopy

	Computing Sciences Project Administration	
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## PROFESIONAL CONTRIBUTIONS & EXPERTISE

 <p><b>Leadership Role and Administrative Post</b></p>	 <p><b>Speaker</b></p>	 <p><b>Assessor/ Panel for Book (Manuscripts)</b></p>	 <p><b>Panel for PhD/ Master Examiner</b></p>	 <p><b>Professional Panels, Reviewing, and Judging Roles</b></p>
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## LEADERSHIP ROLE AND ADMINISTRATIVE POST

1. **Head of Postgraduate Studies** for Institute for Big Data Analytics and Artificial Intelligence (2025 -Present)
2. **Deputy Director** - Institute for Big Data Analytics and Artificial Intelligence (IBDAAI) (2021 - Present)
3. **Deputy Dean** (Research, Industry, Community and Alumni) Faculty of Computer and Mathematical Sciences (2019 - 2020)
4. **Deputy Director** – Research, Innovation and Academic (Institute for Infrastructure Engineering and Sustainability Management (IIESM), Universiti Teknologi MARA (2017 -2018)
5. **Head of Research Unit** (Advanced Analytic Engineering Center (AAEC), FSKM (2018 - 2020)
6. **Acting Director**, IBDAAI (29 May 2025 – 8 July 2025)
7. **Head of Program**, AI Food for Home, 2023 (Collaboration with Community Garden and KEPU Grant, UiTM)
8. **Liason Officer** for National Irbid University, Jordan
9. **Liason Officer** Huayin University, China.
10. **Liason Officer** FOMEMA Sdn. Bhd.
11. **Equipment Technical Committee, IBDAAI**
12. **Curriculum Development Committee** – Master of Intelligent Systems Engineering
13. **Curriculum Review Committee** – B.IT (Hons) Intelligent Systems Engineering
14. **Programme Director** for:Global@FSKM
15. **Programme Director** Research Garden@FSKM
16. **Programme Director** for for Entrepreneurship@FSKM
17. **Acting Director**, IESM (25 Mac - 2 April 2017)
18. **Acting Director**, IIESM (17 - 24 Sept 2016)
19. **Deputy Director** of the COE Formation Project Committee, Advanced Analytics Engineering Center (2013 – 2014)
20. **ISO Coordinator**, IIESM



21. **Risk Management Coordinator**, and Web Master, IIESM (2013 - 2014)
22. **Project Director** SCIENCE on WHEELS, Sponsored by MDEC RM20,000 (2014)
23. **Program Director AI-CAMP** 2013, Sponsored by MDEC, RM10,000 (2013)
24. **Equipment Technical Committee**, IIESM
25. **Curriculum Review Committee** for Intelligent Systems Engineering Bachelor of Information Technology (Hons) Program
26. **Advisor** for Artificial Intelligence Club
27. **Co-Chairperson**, Timber Pinnacle Day
28. **Committee for New Program** (Master of Science in Intelligent System Engineering
29. **Secretary** of Master of Intelligent System Engineering Curriculum Development
30. **Web Master** IIESM
31. **Head of Programme**, IIESM Excellence Day
32. **Head of Programme**, High Impact Journal Writing and Publication Workshop, organized by IIESM
33. **Head Organizer**, Workshop on Strengthening Management and Publication, IIESM
34. **Core Team Member and Instructor**, Infosys Campus Connect Program – National Level, Batch 8, 2013

SPEAKER					
	Type	Organizer	Level	Event	Year
1	Keynotes Speaker	POLYTECHNIC NEGERI MEDAN	International	The Fifth International Conference on Computational Science and Information Management	2024
	Keynote Speaker	UNIVERSITI TEKNOLOGI MARA	International	4th International Conference on Artificial Intelligence & Data Sciences (AIDAs)	2023
2	Keynote Speaker	HINWEIS RESEARCH	International	International Conference on Networking, Communication and Computing Technology	2022
3	Session Chair	INNOVATE MALAYSIA - MDEC	National	Innovate Malaysia Design Conference 2020: Sarawak Energy Design Challenge Breakout Session Chair	2020
4	Session Speaker	TAYLOR'S UNIVERSITY AND INSTITUTE FOR ENGINEERING RESEARCH AND PUBLICATION	International	International Conference on Data Science, AI And Analytics: Bridging the Gap Between Theory and Practices	2023
5	Speaker	IRBID NATIONAL UNIVERSITY & IBDAAI	International	International Webinar on Big Data and Artificial Intelligence	2025
6	Speaker	PANEL PROGRAM PROMPT TO AI ANJURAN PEMBANGUNAN MINDA DAN KENDIRI (PMK)	International	Panel Program Prompt to AI Anjuran Pembangunan Minda Dan Kendiri (PMK) Permai	2024
7	Speaker	YAYASAN INOVASI MALAYISA	National	Introduction to Big Data and Artificial Intelligence Workshop	2024
	Speaker	JABATAN PERANCANGAN BANDAR DAN DESA (PLANMALAYSIA)	National	PLANMalaysia GIS SEMINAR 2024: Emerging Technologies in Geospatial Planning	2024
8	Speaker	INSTITUT KOPERASI MALAYSIA (IKMA)	National	Bengkel Analisis Kewangan Koperasi Melalui Kecerdasan Buatan (AI)	2024

9	Speaker	IIESM	National	KPI - Publication Achievement	2023
10	Speaker	INSTITUT KOPERASI MALAYSIA (IKMA)	National	Program Bicara Ilmu "Pemeriksaan Perniagaan Koperasi Melalui Kecerdasan Buatan	2023
11	Speaker	BAHAGIAN PSIKOLOGI DAN KAUNSELING JABATAN KEBAJIKAN MASYARAKAT	National	Persidangan Pegawai Psikologi Dan Penolong Pegawai Psikologi Jabatan Kebajikan Masyarakat Tahun 2023	2023
12	Speaker	ILD, UITM	National	Neuro Linguistic Programing (NLP) For Leaders	2021
13	Speaker	WOMEN IN AI	National	WAI MALAYSIA SUMMIT @ UTEM 2021	2021
14	Speaker	UNISNU JEPARA, INDONESIA	International	Webinar Internasional Program Studi Sistem Informasi	2020
15	Speaker	UNIVERSITI TEKNOLOGI MARA, CAWANGAN KELANTAN	International	Webinar International Talk Series 1/2020	2020
16	Speaker	WOMEN IN AI	International	WOMEN AI SUMMIT 2020	2020
17	Facilitator	UNIVERSITI TEKNOLOGI MARA	National	PROGRAM PEMBANGUNAN KERJAYA - MODULE ELEKTRONIK	2020
18	Speaker	UNIVERSITI TEKNOLOGI MARA & UNIVERSITAS SRIWIJAYA	International	Program Collaboration Universitas Sriwijaya and FSKM 2020.	2020
19	Speaker	UNIVERSITI TEKNOLOGI MARA	National	Online Workshop on Introduction Big Data and Analytics	2020
20	Speaker	UNIVERSITI TEKNOLOGI MARA	National	Taklimat Geran Malaysian Technical Standards Forum Berhad (MTSFB)	2020
21	Speaker	ILD, UNIVERSITI TEKNOLOGI MARA	National	Neuro Linguistic Programming for Leaders	2020
22	Speaker	UNIVERSITI TEKNOLOGI MARA	National	Pengurusan Marah Dan Emosi, Institut Latihan	2019

				(ILD) Bandar Enstek, UiTM
23	Speaker	Universiti Teknologi MARA	National	Program 'The Power of Mind' For University Student (FSKM) – Few Semesters
24	Speaker	Universiti Teknologi MARA	National	Bengkel I Love Programming with Neuro-Linguistic Programming (NLP)
25	Speaker	Universiti Teknologi MARA	National	Kursus Research of Academic & Commercialization Excellence (RACE): Doctoral Accomplishment Strategy (Changing the Mindset to Accelerate PhD Excellence), UiTM
26	Speaker	Universiti Teknologi MARA	National	Program Motivasi NLP Pelajar Jurusan Perakaunan
27	Speaker	Sekolah Menengah Shah Alam	National	Program Pembangunan Insaniah Kelas KRK, Sekolah Menengah Shah Alam.
28	Speaker	SMK Seksyen 18, SHAH ALAM	National	Motivator Program Ikrar & Aku Janji SPM, SMK Seksyen 18, Shah Alam
29	Speaker	Maahad Tahfi	National	Motivasi Neuro Linguistik Programming (NLP) Tajuk 'Aku Tidak Kalah', Maahad Tahfiz Al Quran Sabil Al Arsyad Lil Banat
30	Speaker	Sekolah Rendah Agama Integrasi Dato' Mufti Yusof Sahabuddin	National	Program Motivasi Murid Tahun 5, Sekolah Rendah Agama Integrasi Dato' Mufti Yusof Sahabuddin
31	Speaker	Sekolah Rendah Agama Integrasi Dato' Mufti Yusof Sahabuddin	National	Program Motivasi Murid Tahun 6, Sekolah Rendah Agama Integrasi Dato' Mufti Yusof Sahabuddin
32	Speaker	Universiti Teknologi MARA	National	PhD on Time: PhD Research Methodology, UiTM
33	Speaker	Universiti Teknologi MARA	National	Program Ke Arah Kecemerlangan Akademik (KACA), FSKM
34	Speaker	Universiti Teknologi MARA	National	Bengkel Penerbitan dan Penulisan Siri 1

35	Speaker	Universiti Teknologi MARA	National	Workshop on Introductiono Neural Network and Application
36	Speaker	Universiti Teknologi MARA	National	Workshop on Introduction to Particle Swarm Optimization and Application
37	Speaker	Universiti Teknologi MARA	National	Workshop For Beginners to Programming and Intelligent System for Engineering

### Assessor/ Panel for Book (Manuscripts)

No	Name of University	Level	Book Title	Year
1	Universiti Teknologi Petronas (UTP)	National	Artificial Intelligence (AI): An Easy Concept	2025
2	Universiti Islam Sultan Sharif Ali, Brunei Darul Salam	International	Scientific Readiness for Spiritual Journey of Hajj and Umrah (5d Virtual Reality & Machine Learning Technology	2024
3	Universiti Islam Sultan Sharif Ali, Brunei Darul Salam	International	Current Trend in Technology and Innovation	2024
4	Universiti Malaysia Perlis (UNIMAP)	National	Problem Solving and Computer Programming	2023
5	Yayasan Pembangunan Buku Negara	National	Penilai Anugerah Buku Negara 2020	2020

### Panel for PhD/ Master Examiner

Panel	Organization	Year
1. Content Expert and Research Methodologies	Universiti Teknologi MARA	03/06/2020-03/01/2020
2. External Examiner - Closed Examination for Doctoral Program: Gamma Kosala	Universitas Gajah Mada	16/02/2021-10/03/2021
3. External Examiner - Closed Examination for Doctoral Program- Rahmad Hidayat	Universitas Gajah Mada	21/02/2022-01/03/2022
4. External Examiner - Closed Examination for Doctoral Program - Dyah Aruming	Universitas Gajah Mada	02/09/2020-08/09/2020
5. External Examiner for Bach of Computer Science (Intelligent System) First City University (24-01-2018-23-01-2021)	First City University	24/01/2018-23/01/2021
6. External Examiner for Bach of Computer Science (Intelligent System) First City University-24-1-2021 - 23-1-2024	First City University	24/01/2021-23/01/2024
7. External Reviewer for Academic Promotion - Sohar University	Sohar University	29/04/2024-05/05/2024

8. Evaluation Panel for the Ministry of Higher Education Research Grant	Universiti Teknologi MARA	01/01/2020-31/12/2020
9. Panel Penilai Kertas Cadangan Geran Penyelidikan Dalam Peringkat UiTM	Universiti Teknologi MARA	01/01/2021-31/12/2021
10. Panel Penilai Sesi Kolokium Pasca Siswazah FSKM	Universiti Teknologi MARA	01/07/2020-14/07/2020
11. Pengersi Viva Calon Ijazah Sarjana, Institut Pengangkutan Malaysia (Mitrans)	Universiti Teknologi MARA	12/11/2021-12/11/2021
12. Pengerusi Sesi Pembentangan Usul Penyelidikan Program Sarjana Sains Dan Kedoktoran Secara Penyelidikan	Universiti Teknologi MARA	31/05/2021-31/05/2021
13. Master/Phd Examiner: Annuur Zakiah Binti Zainol	Universiti Teknologi MARA	07/07/2022-15/07/2022
14. Master/Phd Examiner: Han Kefan	Universiti Teknologi MARA	02/06/2022-14/06/2022
15. Master/Phd Examiner: Muhammad Nizam Abdul Aziz	Universiti Teknologi MARA	06/12/2021-06/12/2021
16. PhD Examiner: Aliza Abdul Latif	Universiti Teknologi MARA	20/02/2020-10/04/2020
17. Master/Phd Examiner: Hazlin Fardila Abdul Hasim	Universiti Teknologi MARA	08/01/2021-10/01/2021
18. Phd Examiner: Azran Ahmad	Universiti Teknologi MARA	08/01/2021-10/01/2021

### Professional Panels, Reviewing, And Judging Roles

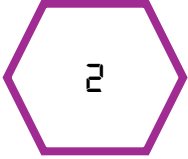
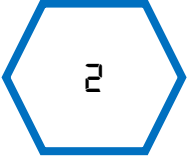
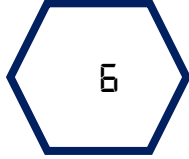
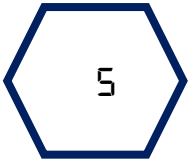
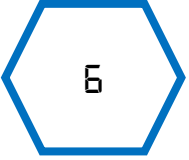
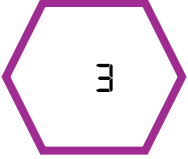
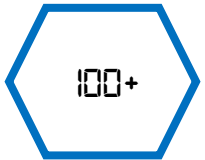
1. Board Member, AI Advisory Board, VentureGrab (2024–2026)
2. Evaluation Panel Member, Fundamental Research Grant Scheme (FRGS), Universiti Teknologi MARA (UiTM), 2023
3. Evaluation Panel Member, Strategic Research Grant, UiTM, 2023
4. Evaluator, Internal Research Grants, UiTM, 2023
5. Jury Member, Women in AI (WAI) Asia Pacific – Datathon Competition, 2021
6. Content Expert for Project Management Course for Open University Malaysia
7. Judge, Poster Competition, UiTM Research Fiesta, 12 October 2019
8. Editorial Board Member / Reviewer, *Malaysian Journal of Computing*, Faculty of Computer and Mathematical Sciences (FSKM)
9. Panel Judge, Entrepreneur Expo, Faculty of Civil Engineering, 2013
10. Panel Member, PhD Research Proposal Defence
11. Panel Member, Master's Research Proposal Defence
12. Panel Member, PhD Mock Viva
13. Panel Member, Master's Mock Viva
14. Interview Panel Member, Young Lecturer Scheme for master's and PhD Candidates
15. ISO Auditor, Universiti Teknologi MARA
16. Panel Member, Undergraduate Final Year Project Evaluation
17. Panel Member, Postgraduate Student Admission Interview
18. Reviewer, International Conferences
19. Reviewer, International Journals
20. Industry Supervisor, Industrial Training / Internship Programmes

ROLE IN CONFERENCES					
	Conference's Name	Organizers	Role	Level	Year
1	8 <sup>th</sup> International Conference, SCDS 2023, Communications in Computer and Information Science (Scopus)	IBDAAI & Science of Univesity Malaysia.	Tech Committee	International	2025
2	The Fifth International Conference on Computational Science and Information Management	Binus University, Polytechnic Negeri Medan, UMPSA, ITB	Co-Chair	International	2024
3	7 <sup>th</sup> International Conference, SCDS 2023, Communications in Computer and Information Science (Scopus)	IBDAAI, Baoji University China.	Chair	International	2023
4	International Conference, SCDS 2018	Faculty Science Computer and Mathematical UiT and Chulalongkorn University, Bangkok, Thailand	Tech Committee	International	2018
5	International Civil and Infrastructure Engineering Conference (INCIEC 2014) (Scopus)	Institute for Infrastructure Engineering and Faculty of Civil Engineering.	Chair	International	2015
6	The 2 <sup>nd</sup> International Conference on Statistics in Science, Business and Engineering 2015 (ICSSBE2015)	Faculty Science Computer and Mathematical UiTM Shah Alam	Committee	International	2015
7	2 <sup>nd</sup> International Conference on Advanced Micro and Nanocomposite for Engineering 2014 (ICNC 2014)	Institute for Infrastructure Engineering and Faculty of Civil Engineering.	Chair	International	2014
8	International Civil and Infrastructure Engineering Conference (INCIEC 2014) (Scopus)	IIESM, FKA, IRMI, UTHM, The University of Nottingham, BRE Centre for Innovative Construction Materials, UK and GRaCES	Co-Chair	International	2014

9	2 <sup>nd</sup> International Civil and Infrastructure Engineering Conference 2014 (InCIEC) (Scopus)	IIESM, Universitas Gadjah Mada, Indonesia, Mahatma Ghandi University, India dan BRE Centre for Innovative Construction Materials, UK	Website Chair	International	2014
10	International Conference on Soft Computing in Data Science 2015 (SCDS2015) (Scopus)	Faculty Science Computer dan Mathematical UiTM	Tech Committee	International	2015
11	International Civil and Infrastructure Engineering Conference 2013 (InCIEC) (Scopus)	IIESM, Universitas Gadjah Mada, Indonesia, Mahatma Ghandi University, India dan BRE Centre for Innovative Construction Materials, UK	Co-chair	International	2013
12	IEEE Colloquium on Humanities, Science and Engineering (CHUSER 2013)	IEEE and UiTM	Track Chairs	International	2013
13	International Civil and Infrastructure Engineering Conference 2013 (InCIEC) (Scopus)	IIESM, Universitas Gadjah Mada, Indonesia, Mahatma Ghandi University, India dan BRE Centre for Innovative Construction Materials, UK	Website Chair	International	2013



## STUDENTS SUPERVISION

 <p>PhD (Completed, Main SV)</p>	 <p>PhD (Completed, Co-SV)</p>	 <p>PhD (On-going, Main-SV)</p>	 <p>PhD (On-going, Co-SV)</p>
 <p>Master (Completed)</p>	 <p>Master (On-going)</p>	 <p>FYP (bachelor's degree)</p>	

## LIST OF POSTGRADUATE STUDENTS

	Level	Student Name	SV	Title	Status
1	PhD	Mohd Nizamuddin Bin Abd Latif	Main SV	Sentiment Analysis of Twitter Data using NLP and Large Language Models	On going
2	PhD	Nur Za'imah Athirah Mohd Hamdan	Main SV	Feature Extraction Based on Colour Images using Deep Learning for Breast Cancer Detection	On going
3	PhD	Muhammad Syahmi Mokhairi	Main SV	Enhancing Customer Churn Classification through Ensemble Deep Learning Model	On going
4	PhD	Zhou Liqin	Main SV	Muti-sensor Defect Recognition	On going
5	PhD	Mohd Hakim Bin Abdul Hamid	Main SV	Personal Bankruptcy in Malaysia and Ensemble Method in Data Mining	On going
6	PhD	Wang Xijuan	Main SV	Human Behavior Recognition Based on Multi-Modal Feature Fusion	On going
7	PhD	Qiao Qi	Co-SV	Research On Image Classification Method Based on Deep Learning	On going

8	PhD	Mojahid Hafiza Zoya (Co-SV)	Co-SV	Predictive Analytics of New Variants Adaptability of COVID-19 using Time Series Data	On going
9	PhD	Saiyed Rasol Bin Tuan Muda (Co-SV)	Co-SV	New Hybrid Time-varying Deep Classification Model with Optimized Hyperparameters on Behavioral Malware Analysis and Intrusion System Over IP Core Network	On going
10	PhD	Zaaba Ahmad	Co-SV	Multi-label DAS Classification Model Utilizing Unstructured Data as Side Information with Revised Stacking Algorithm	On going (Waiting for Viva)
11	PhD	Farizawani Abdul Ghani (Co-SV)	Co-SV	Improved Learning Method for Neural Network Based on Modified Conjugate Gradient Models	On going (Waiting for Viva)
12	PhD	Nurshazwani Mohd Mahfuz	Main SV	Hybrid Firefly with ML in Timber Perception Clustering	Completed
13	PhD	Norul Hidayah Isa	Main SV	Biological Inspired Computational Algorithm for Dynamic Vehicle Routing Problem.	Completed
14	PhD	Norzehan Binti Sakamat	Co-SV	Characterizing Children's Handwriting Kinematic	Completed
15	PhD	Siti Fatimah Che Osmi (Unitend)	Co-SV	Groundwater Hydrogeological Study for Palm Oil Plantation Estates in South Kalimantan: A Comparison Study using Numerical Simulation and Artificial Neural Network Methods	Completed
16	Master Science (By Research)	Nurul Humaira' Binti Kamarul Rahim (Main-SV)	Main SV	AI Emergency Response & Intelligent System): An AI-Powered Voice Assistant for Emergency Medicine Documentation and Decision Support	On going
17	Master Science (By Research)	Puteri Azmira R Azmi (Main SV)	Main SV	Enhancing Diagnostic Accuracy in Imbalanced Classification Data for Transformer	On going (Waiting for Viva)
18	Master Science (By Research)	Muhammad Izzat Faiz Bin Mohd Derafi	Co-SV	Formulation of Optimal Fuzzy-Generative Adversarial Network in High Precision 3D Reconstruction	On going
19	Master Science (By Research)	Nurhanis Shamsudin	Co-SV	Optimal Damages Prediction Model for Concrete Building Due to Seismic Zonation	Completed

20	Master Science (By Research)	Amirul Saidikin Afendi	Main SV	Acoustic Surveillance Intrusion Detection in Wildlife Protection with Audio Event Recognition	Completed
21	Master Science (By Research)	Atiah Zaini (Unitend)	Co-SV	Rainfall Estimation with Hybrid Intelligent Methods	Completed
22	Master Science (Dissertation)	Nurul Ain Binti Ismail	Main SV	Intelligent Workforce System	Completed
23	Master Science (Dissertation)	Noor Afzazila Ahmad	Main SV	Malicious URL classification using MLP	Completed
24	Master Science (Dissertation)	Azman Kasim	Main SV	The Computer Competency Level of Government School Teachers in Selangor: A case study in Kuala Selangor	Completed

## Community Leader

1. Committee Member, Parents and Teachers Association, Sekolah Rendah Integrasi Dato Mufti Yusof Sahabudin, SRAI 7, Shah Alam (2018–2020)
2. Deputy President, Parents and Teachers Association, Sekolah Rendah Integrasi Dato Mufti Yusof Sahabudin, SRAI 7, Shah Alam (2017–2018)
3. Committee Member, Parents and Teachers Association, Sekolah Rendah Integrasi Dato Mufti Yusof Sahabudin, SRAI 7, Shah Alam (2015–2016)
4. Head (Ladies Section), Taman Cahaya Alam Residents Association (2017–2021);  
Committee Member for Various Residential Programs

## Membership

IEEE

Women in AI

NLP Coaching

Associate Member, National Council of Professors (Majlis Professor Negara)

University Women's Association (Pewani), UiTM

Taman Cahaya Alam Residents' Association

## Certification

Rapid Miner – Machine Learning Master Certification

Rapid Miner – Applications & Use Cases Professional Certification

Rapid Miner – Data Engineering Professional Certification

Rapid Miner – Machine Learning Professional Certification

Professional Technologist by Malaysia Board of Technologist (2018-2021)

### Neuro Linguistic Programming Certifications

Certified Advanced Coaching Leadership NLP Coaching Practitioner

Certified NLP Coach

Certified Lab Profile Practitioner

Certified Lab Profile Practitioner for Coaches

Certified Meta-model Practitioner for Coaches

Certified Practitioner of NLP NFNLP, USA.

Certified NLP Train the Trainer Platform Skills

Certified NLP Meta Reflection Practitioner

Certified Meta-model Practitioner

Certified Hypnotic Communication Practitioner

NLP Developing Strategies

FYP LIST (2012-2024)			
	Year	Student Name	Title
1	2024	Ahmad Faez Bin Tujuh (2021601126)	Stock Prediction of Bursa Malaysia using Sentiment Analysis and LSTM
2	2024	Ahmad Safwan Haziq Bin Mohd Daud (2021600448)	Blue-Green Algae Detection Throught Image Recognition in Ecosystems
3	2024	Arfan Bin Ahmad Asari (2023164575)	Optimizing Strength Performance Based Ground Penetration Radar (GPR) On Wood Species And Dowel Types
4	2024	Faris Aiman Bin Jamaluddin (2023189723)	Drilling Rate Of Penetration Prediction Using Particle Swarm Optimization And Gradient Boosting Regressi
5	2024	Muhammad Azminnaim Bin Abdul Harith (2022611686)	Flood Detection System Using IOT
6	2024	Muhammad Danish Fikri Bin Mat Juri (2022937859)	Multi-Class Classification Of Gastrointestinal Diseases From Wireless Capsule Endoscope Using Deep Learning
7	2024	Muhammad Syahmi Bin Mokhairi (2022931163)	Autism Spectrum Disorder Prediction Using Machine Learning
8	2024	Noor Farhah Binti Mohd. Zulkimi (2022780377)	Support Vector Machine In Predicting Fuel Efficiency Of Electric Vehicles
9	2024	Nur Za'imah Athirah Binti Mohd Hamdan (2022842316)	Feature Extraction Based On Colour Images Using Deep Learning For Breast Cancer Detection
10	2024	Shahnazreen Bin Abdol Mulok (2021462038)	Multi-Class Classification Of Breast Cancer In Histopathology Images Using Variants Of Deep Learning Models
11	2024	Tuan Shafirul Fikri Bin Tuan Saiful Bahari (2022930853)	Fuel ConsumptionaAnd Carbon Emission Reduction In Dvrp Using Optimization Algorithms
12	2023	Danial Izzat Anwar Bin Abdul Aziz (2020828296)	Paddy Disease Detection Using Deep Learning
13	2023	Muhamad Shah Azizie Bin Abd Karim (2020846896)	Improving Breast Cancer Performance In Cnn By Generating Synthetic Histopathological Images Using Gan
14	2023	Sharifah Syamirah Binti Syed Ahmad Zulfa (2020878228)	Optimal Diabetic Food Nutrient Using Particle Swarm Optimization Algorithm

15	2022	Amirul Hakimi Bin Mohammad Noor (2019615112)	Work Life Balance Classifier With Machine Learning Approaches
16	2022	Muhammad Hariz Bin Mohd Nor (2019685508)	X-Ray Recognition (Mammogram) To Detect Early Stages Of Breast Cancer Using Deep Learning
17	2022	Puteri Syaidatul Ilham Binti Ariffin (2020449044)	Evaluation Of Sentiment Analysis Methods Of Halal Food Concern Based On Twitter Data
18	2021	Abdul Azim Bin Ismail (2020483646)	Multi-Label Text Classification with Cnn, Lstm, And Hybrid Lstm-Cnn For Gender Violence Text Data
19	2021	Abdullah Iskandar Amin Bin Mohd Amin (2019291658)	Covid-19 Xray Images Prediction Using Deep Learning
20	2021	Ali Bin Mohamad Nasir (2019218856)	Object Detection On Safety Attire Of Construction Workers
21	2021	Muhamad Aqil Iman Bin Azam (2020980895)	Pain Recognition Using Convolutional Neural Network (Cnns)
22	2021	Muhammad Hafizuddin Bin Che Hazahar (2020966201)	Food's Calories Recognition
23	2021	Muhammad Haikal Zakwan Bin Mohamad Zairo Sany (2020614632)	Noise Classification Using RNN-LSTM
24	2021	Muhammad Nazmi Husaini Bin Norazman (2019295248)	Optimization Of Purchasing Habits Using Genetic Algorithm
25	2021	Nurnasihini Binti Zainal Abidin (2020982609)	Ai Gender Equality In Stem Fields
26	2021	Nurul Izleen Binti Razmi (2020862138)	Sentiment Analysis Of Health Awareness On Food Intake During The Covid-19 Pandemic In Malaysia
27	2021	Nurul Izzah Binti Omar (2020960287)	Demand Oriented Train Timetable Using Genetic Algorithm
28	2021	Nurul Nadiah Binti Abd Rahman (2020960897)	Covid-19 Detection On Chest X-Ray Images Using Svm And Knn Classifiers
29	2021	Wan Nur Dalila Binti Wan Zainuddin (2020970957)	Classification Of Face Images Using Convolution Neural Network
30	2021	Wan Umar Farid Bin Wan Khairilanwar (2020996693)	Exercise Form Checking Using Computer Vision

31	2020	Afiq Hazmi Bin Mohammadnor Basri (2017807088)	Ai Bots
32	2020	Aiman Nabil Bin Azharul Nahar (2018224534)	Noise Detection
33	2020	Anas Fadzrin Bin Ahmad Nazir (2018273016)	Iphone Repairing And Tips Chatbot
34	2020	Jihan Balqis Binti Nasip (2017807056)	Lecturer Timetable Optimization
35	2020	Mohamad Syafiq Irfan Bin Saaidi (2016801632)	Tuberculosis Detection Using Cnn
36	2020	Mohd Nadjmi Bin Mohd Yazid (2018263878)	Route Optimisation For Streetlight Maintenance
37	2020	Muhammad Hisman Bin Mohammad Ariff (2019324579)	Car Movement Anomaly Detection On Road Using Cnn
38	2020	Muhammad Idham Bin Idris (2019717453)	Transit Route Network Design Problem With Improved Simulated Annealing
39	2020	Muhammad Naquiddin Bin Zaini (2018653348)	Wildlife Intruder Sound Detection System Using Artificial Neural Network
40	2020	Muhammad Syamil Bin Ali (2018436436)	Sentiment Analysis on Online Learning from Twitter
41	2020	Norfatihah Najwa Binti Rozaini (2019350751)	Optimal Recommender Bot for Coffee Selection
42	2020	Yasmin Syahira Binti Mohd Hasan (2018238922)	The Chest Disease System Detection Using Neural Network
43	2019	Aiman Faris Bin Zamri	Solat Perceptions Among UiTM Students using Clustering Analysis
44	2019	Azwan Syafiq Bin Mohamed Masle	Public Transport Selection Optimizer Using Genetic Algorithm
45	2019	Muhd Aqmal Afiq Bin Adnan	Intelligent Food Pricing Calculation System Based on Image Recognition
46	2019	Nur Uswatun Hasanah Bt Nasir	Diet Optimizer for Track and Field Athletes Using Genetic Algorithm
47	2019	Nurain Binti Ismail	Herbs Recognition Using Back Propagation Neural Network
48	2019	Nurul Amira Afifah Binti Sameri	Timber Usage Perception Using Clustering Method
49	2019	Raja Ameerul Eizamuddin Bin Raja Aisham	Student Optimal Route Navigator Using Ant Colony Optimization Algorithm
50	2017	Anis Amalina Othman	Lecturers' Timetable Optimizer using Genetic Algorithm

51	2017	Azmin Bin Amin	Expert System for Glulam Roof Beam Design
52	2017	Faris Bin Mohd Najid	Prediction of Seismic Damage Index of Buildings using Hybrid Backpropagation Neural Network-Based Particle Swarm Optimization
53	2017	Muhammad IIman Bin Azlan	Gas Diffusivity in Polymer Foaming Optimization System
54	2017	Nur Farah Syazwani Binti Sehat	Wood Polymer Composites Strength Optimizer Using Genetic Algorithm
Hybrid 55	2016	Khairul Bariah Baharum	The Optimization of Whatsapp Usage for Information Sharing using Particle Swarm Optimization
56	2016	Muhamad Nazreen Shah Mohd Ikram	Optimizing Crowd- Worker Matching using Genetic Algorithm
57	2016	Nor Liyana Nor Ariffin	Mechanical Properties Evaluation of Aluminum using Genetic Algorithm
58	2016	Nur Amirah Arif Mirza	Classification of Evacuation Management
59	2016	Rini Aidatul Azwin Mohamed	Social Interaction Optimization of Facebook Users
60	2016	Saiyidah Nafisah Mohd Khir	Optmizing the Time Usage of Instagram among Students
61	2016	Siti Badrina Amini binti Azhar	Meals Recommendation for Diabetics
62	2015	Fadilah Saadah Binti Wahab	Autism Early Detection for Children using Fuzzy Expert System
63	2015	Nur Amirah Binti Abdullah	Optimizing the Time Usage on Playing Video Games Among Students
64	2015	Nur Hana Binti Khairuddin	Alphabet-based Book Cover Recognition System
65	2015	Nurul Fatin Izzati binti Mat Sobri	Sugarcane Plantation Management System using Expert System
66	2015	Saiyidah Nafisah Mohd Khir	Optimizing the Time Usage of Instagram among Students
67	2015	Syed Muhammad Kamil bin Syed Ahmad Kamal	Computer Virus Identification Using Rule Based Expert System
68	2014	Ahmad Luqman Bin Alias	Prediction on Offshore Pipeline Corrosion using Hybridization of Backpropagation Neural Networks and Particle Swarm Optimization
69	2014	Dzul Fazwan Othman	Evaluation of Timber Connection Strength using Particle Swarm Optimization



70	2014	Mohamad Rashyed Bin Yaakob	Prediction of Pipeline Corrosion (Oil and Gas) using Back Propagation Neural Network
71	2014	Mohd Yasser Bin Haji Ibrahim	Head Movement Detection using Backpropagation Neural Network
72	2014	Muhamad Dinie Bin Masjuki	Warga Prihatin Information Clustering System
73	2014	Muhammad Athari Bin Ismail	Tangible Learning Pre-School Children using Augmented Reality (TASCA)
74	2014	Muhammad Bhaihaqi Bin Saadon	Gait Recognition using Backpropagation Neural Network
75	2014	Nooro Ain Binti Mohd Norashid	Development of Shrubs Recognition System using Backpropagation Neural Network
76	2013	Kamal Izzat Bin Mohd Ali	Shoeprint Recognition
77	2013	Nurul Ridhwah Binti Mohd Isa	Advisory System for Autistic Children Based on Autism Severity Level Using Fuzzy Expert System