

CURRICULUM VITAE

As of 12/1/2026

Name: **Maz Jamilah binti Masnan**
Nationality: Malaysian
Employer: Universiti Malaysia Perlis (UniMAP)
Current Post: Associate Professor
Address: Department of Mathematical Sciences
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EARLY EDUCATION

1. Sek. Men. Keb. Sungai Besar, Selangor, 1990-1991
2. Sek. Men. Keb. Bagan Terap, Sungai Besar, Selangor, 1987-1989
3. Sek. Keb. Tok Khalifah, Sungai Besar, Selangor, 1985-1986
4. Sek Keb. Bagan Terap, Sungai Besar, Selangor, 1981-1984

ACADEMIC BACKGROUND

1. Ph.D. (Statistics), Universiti Utara Malaysia, Sintok, 2017.
2. Master of Science (Decision Science), Universiti Utara Malaysia, Sintok, 2005.
3. Bachelor of Arts (Statistics), Michigan State University, East Lansing, USA, 1997.
4. Diploma in Statistics, MARA Institute of Technology, Shah Alam, 1995.

CAREER HISTORY

- | | |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Jan. 2025 – present | Associate Professor (DS14) , Universiti Malaysia Perlis |
| 2. Oct. 2014 – Dec. 2024 | Senior Lecturer (DS52) , Universiti Malaysia Perlis |
| 3. July 2006 – Sept. 2014 | Lecturer (DS45) , Universiti Malaysia Perlis Kolej Universiti Kejuruteraan Utara Malaysia |
| 4. March 2002 – June 2006 | Pegawai Perkhidmatan Pendidikan Siswazah (Mathematics)
Majlis Amanah Rakyat (MARA), Institut Kemahiran MARA,
KM 14, Jalan Kaki Bukit, Beseri Perlis |
| 5. April 1998 – Dec. 2001 | Officer , Jabatan Penerbitan & Pengurusan Maklumat
Institut Perkembangan Minda (INMIND),
Aras 15, Menara Yayasan Selangor, Petaling Jaya, Selangor |

PROFESSIONAL MEMBERSHIP

1. Malaysian Institute of Statistics, Member, 10/6/2016-21/03/2019.
2. Malaysian Institute of Statistics, Life Member (ID: 400), since 23/03/2019.
3. International Association of Computer Science and Information Technology (IACSIT), since 04/09/2013.
4. Asia Pacific Women Inventors and Innovators Network (APWIIN), since December 2020.
5. Malaysian Mathematical Sciences Society (PERSAMA), Life Member (MS2021-2), since 10 February 2021.

INDEXING/CITATION

1. Google Scholar, H-Index: 13, i10-index: 14, Citation: 691 [Link ]
<https://scholar.google.com/citations?user=APIdF5UAAAJ&hl=en&oi=ao>
2. Scopus (ID: 36559917900), Document: 33, H-Index: 10, Citation: 416 [Link ]
ORCID : <https://orcid.org/0000-0002-7371-7278>
<https://www.scopus.com/authid/detail.uri?authorId=36559917900>
3. ResearchGate, Document: 43, H-Index: 13, Citation: 535 [Link ]
<https://www.researchgate.net/profile/Maz-Jamilah-Masnan>
4. Web of Science (ID: AAL-2322-2020), Document: 23, H-Index: 8, Citation: 273 [Link ]
<https://www.webofscience.com/wos/author/record/48597523>

ADMINISTRATION EXPERIENCE**ADMINISTRATION/RESEARCH POST**

1. Head of Department of Mathematical Sciences, Faculty of Intelligent Computing, 1/7/2025-30/9/2026.
2. Director, Institute of Engineering Mathematics, UniMAP, 1/10/2024-31/6/2025.
3. Director, Institute of Engineering Mathematics, UniMAP, 1/9/2022-30/9/2024.
4. Deputy Dean (Research & Postgraduate), Faculty of Applied and Human Sciences, UniMAP. 1/12/2021-31/8/2022.
5. Data Manager, representing UniMAP to Department of Statistics, since 13/1/2020.
6. Cluster Coordinator, Mathematical Sciences & Data Analytics, Centre of Excellence Social Innovation & Sustainability, Fakulti Sains Gunaan & Kemanusiaan, 1/7/2020 – 31/7/2022.
7. Fellow Researcher, Mathematical Sciences & Data Analytics, Centre of Excellence Social Innovation & Sustainability, Fakulti Sains Gunaan & Kemanusiaan, 1/7/2020 – 31/7/2022.
8. Pengarisi Rancangan Pascasiswazah, Institute of Engineering Mathematics, UniMAP, 1/3/2019 – 14/9/2020.
9. Pengarisi Rancangan Diploma, Institute of Engineering Mathematics, UniMAP, (1/3/2009 – 20/12/2009).
10. Pengarisi Rancangan Diploma, Institute of Engineering Mathematics, UniMAP (1/3/2007 – 27/2/2009).

TEACHING

<u>Diploma</u>	<u>Undergraduate</u>	<u>Postgraduate</u>
1. DQT101 (Mathematics 1)	1. EMT30304 (Industrial Data Analysis) 2. EQT101 (Engineering Mathematics 1)	1. SSQ/QSQ65003/EQT507 /EQT650 (Research Methodology)
2. DQT102 (Mathematics 2)	3. EQT271/SMQ27103 (Engineering Statistics)	2. QSQ11903 (Advanced Engineering Statistics)
3. DQT203 (Mathematics 3)	4. EQT272/SMQ27203 (Probability and Statistics) 5. PQT111 (Mathematics for Engineering Technology 1) 6. PQT274 (Statistics for Engineering Technology) 7. SSQ2233 (Statistical Programming) 8. SMP15603 (Principles of Business Analytics)	

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1. Course Coordinator, EQT507/650 (Research Methodology), Semester 1 2020/2021.
2. Course Coordinator, (Engineering Statistics), Semester 2 2017/2018.
3. Course Coordinator, PQT274 (Statistics for Engineering Technology), Semester 1 2015/2016.
4. Course Coordinator, EQT271 (Engineering Statistics), Semester 2 2017/2018.

SUPERVISION

Ph.D.

1. Main Supervisor - Syafawati Ab. Saad, PhD (Statistics), *Improved Classification of Diabetic Retinopathy Stages based on Fused Predictors of Diabetes Mellitus Linked Diseases.* (Graduated)
2. Co-Supervisor - Ooi Boon Pin, PhD (Mechatronic Engineering), *Hybrid Ensemble Model to Solve Small Sample-Sized Classification Problems.* (Graduated)
3. Co-Supervisor – Khatijahhusna Abdul Rani, PhD (Statistics), *Enhancing Goodness-of-Fit Assessment for Multinomial Logistic Regression: A Hybrid Approach.* (ongoing)

Master of Science (Mixed Mode)

1. Main Supervisor - Nurul Huda Che Abd Rani, Master of Science (Engineering Mathematics), *Assessment of Classification Performance Via Variable Selection and Variable Extraction,* dissertation. (Graduated)
2. Main Supervisor - Nurul Fadzlina Othman, Master of Science (Engineering Mathematics), *Evaluation of Significant Features Using Bounded Mahalanobis Distance Features Selection,* dissertation. (Graduated)

Final Year Project

1. Co-Supervisor - Phiqah Zulyhah Binti Ahmad Azmi (161151285), Bachelor of Engineering (Biomedical Electronic Engineering). *The Influence of Muscles Activation and Postural Stability on Shooting Performance in Traditional Archery Shooting,* 1/9/2021 – 15/11/2021 (Graduated).
2. Co-Supervisor - Vasithra A/L Subramaniam (181021186), Bachelor of Computer Engineering with Honours, *Development of Medical App for Online Monitoring Diabetes Patients with Diabetic Retinopathy and Nephropathy,* 01/08/2022 - 07/10/2022 (Graduated).
3. Co-Supervisor - Ku Akmal Bin Ku Zurisham (191020902), Bachelor of Computer Engineering with Honours, *Development of Medical App. for Online Monitoring Diabetes Patients with Diabetic Retinopathy and Nephropathy,* 01/08/2022 - 07/10/2022 (Graduated).

INDUSTRIAL TRAINEE

1. Hani Adillya Huzaidi – BSc. (Computational Mathematics), UiTM Seremban. *Development of R Codes for Spatial Mapping of Diabetes Patients' Distribution – State and District of Perlis.* 5/9/2016 – 23/12/2016 (Graduated).
2. Muhammad Fakhrul Badaruddin – BSc. (Hons.) Statistics, UiTM Kelantan. *Logistic Regression Modelling for Diabetes and Hypertension Data.* 28/3-22/7/2022 (Graduated).

CONSULTATION [Title, Organization, Cost, Duration]

1. *Kajian Awal Perpaduan Negeri Selangor, Institute for Research & Development of Policy (IRDP) Malaysia,* RM135,850.00, 8/2/2021-31/12/2022. [Policy Paper]

RESEARCH**PRINCIPAL RESEARCHER [RM97,600.00] [Title, Source, Cost, Duration]**

1. Fortifying Arithmetic Proficiency Through Game-Based Learning (DAMAT), Commercialization Research Grant (9001-00804), RM20,000, 1/7/2025-30/6/2027.
2. Menghasilkan Produk Akhir dan Pembungkusan DAMAT, Industrial Research Grant (9002-00121), RM8,000.00, 28/12/2020-27/6/2023.
3. Menghasilkan Produk Akhir dan Pembungkusan DAMAT, Geran Penyelidikan Sepadan MTUN 2019 (9028-00025), RM15,000.00, 28/12/2020-27/6/2023.
4. Fundamental Spatial Study for the Determination of Undiagnosed Diabetes Patients in the Highest Prevalence State with Type 2 Diabetes Mellitus (T2DM), FRGS (9003-00592), RM44,600.00, 1/8/2016-31/7/2019.
5. Property Maintenance and Management Cost – Effective Way to Control Cost and Improve Income Through Energy Audit and Energy Consumption Study on the Air Conditioning System, Permodalan Nasional Berhad (PNB), RM29,980.00, 1/1/2009-31/12/2010.

CO-RESEARCHER [RM7,063,297.20] [Title, Source, Cost, Duration]

1. Kajian National Employees Social Security Survey (NESSS) Batch 1.0 – Peninsular Malaysia, PERKESO Research Grant, RM180,000.00, 1/1/2025-31/12/2025.
2. Rebuilding Foundations in Literacy and Numeracy of Primary Students in Kedah (Program Anak Kita), Yayasan Hasanah 2023 & Ministry of Finance, RM4,984,017.20, 9/9/2024-31/12/2025. (Deputy Project Director & Mathematics Section Leader).
3. Project Collaborative Growth: Intervening in Literacy, Numeracy, and Strengthening Problem-Oriented Project-Based Learning (POPBL) Delivery with Teachers/Middle Leaders and Students, Hasanah Special Grant (HSG) 2023, RM842,500.00, 1/11/2023-31/10/2024. (Mathematics Section Leader).
4. Projek Pemulihan Literasi dan Numerasi Tahap I bagi Penduduk Miskin, B40 dan Golongan Terkesan Pascapandemik COVID-19 di Perlis, Hasanah Special Grant 2021, RM638,900.00, 1/12/2021-31 November 2022. (Mathematics Section Leader).
5. New Ensemble Classifier Algorithm Incorporating Deep Learning Dropout Approach for Small Sample-Sized Problems, FRGS (9003-00844), RM66,680.00, 01/11/2020-30/04/2023.
6. Pengenalan Kemahiran Aritmetik Mental: Kajian Kes Menggunakan DAMAT bagi Sebelas Sekolah Kebangsaan (Prasekolah) di Padang Besar, Perlis, Community Research Grant Fund (COMPRES) (9001-00608), RM5,000.00, 1/12/2020-31/11/2021.
7. Main Project: A Localisation of Moisture Distribution in Agricultural Silos via RF Signal and Assisted by Deep Learning Algorithm, Sub-Project: Intelligent Machine Learning Technology for Predicting the Moisture Distribution and Provide Quantification, TRGS (9026-00003), RM145,000.00, 1/1/2019-31/3/2023.
8. A Framework for Developing Critical Thinking Skills in Statistics Education through Innovative Instructions and Evaluations, FRGS (9003-00533), RM 88,200.00, 1/1/2016-31/12/2017.
9. Early Warning System of the Malodour Emitted from Rubber Factory using Wireless Electronic Nose System to Enhance Environmental Management System, PRGS (9013-00023), RM 83,000.00, 1/9/2015-31/8/2017.
10. Future Leaders in Reshaping an Organization, Permodalan Nasional Berhad (PNB), RM30,000.00, 1/1/2009-30/6/2010.

LICENSING & COMMERCIALIZATION

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1. *Perjanjian Pelesenan Harta Intelek* (Universiti Malaysia Perlis – Exacmust (M) Sdn. Bhd.), Commercialization of DAMAT, RM10,000.00, 1st August 2024 – 31st July 2027.
2. Commercialization of DAMAT, sales revenue for 2024, RM224,300.00 (A2 size - 851 sets & floor mat – 174 sets – specific for intervention class for 174 selected schools in Kedah).
3. Commercialization of DAMAT, sales revenue for 2021, RM16,800.00 (420 sets for all 74 primary schools in Perlis – specific for intervention class).
4. Commercialization of DAMAT, sales revenue for 2020, RM3,780.00 (140 sets for 23 pre-schools in Perlis).

RESEARCH EXHIBITION AWARD

1. **Maz Jamilah Masnan**, Nursalasawati Rusli, Nor Fashihah Mohd Noor, DAMAT (Dam Matematik), **Malaysian Commercialization Year 2024**, Social Entrepreneur Award Category, Dewan Tun Hussein Onn, World Trade Centre, 6/11/2025. (Finalist)
2. **Maz Jamilah Masnan** & Syafawati Ab Saad, A New Breakthrough for Diabetes Management, Ekspo Rekacipta UniMAP 2025, 15/2-9/3/2025. (Silver)
3. **Maz Jamilah Masnan**, Nursalasawati Rusli, Amran Ahmed, Nor Fashihah Mohd Noor, *Fortifying Arithmetic Proficiency Through Game-Based Learning*, **Bangkok International Intellectual Property, Invention, Innovation and Technology Exposition (IPITEEx 2024)**, 2-6/2/2024, Bangkok, Thailand. (Gold & WIIPA Special Award)
4. **Maz Jamilah Masnan**, Nursalasawati Rusli, Amran Ahmed. *Damat; Arithmetic Games to Improve Mathematics Literacy*, **International Education Innovation Expo (EDU@INNOVATE 2023)**, UPSI, 8-9/11/2023. (Gold)
5. **Maz Jamilah Masnan**, Nursalasawati Rusli, Amran Ahmed, Nor Fashihah Mohd Noor, *DAMAT, Konvensyen Mini Kumpulan Innovatif dan Kreatif (KIK) 2018*, UniMAP, 2/5/2018. (First Runner Up).
6. Nursalasawati Rusli, **Maz Jamilah Masnan**, Amran Ahmed, Nor Fashihah Mohd Noor, *DAMAT, Sintok International Games and Gamification Challenges 2017*, 31/10/2017. (Gold)
7. **Maz Jamilah Masnan**, Nursalasawati Rusli, Amran Ahmed, Nor Fashihah Mohd Noor, *Genius Math Begins with DAMAT, The International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA 2017)*, 7-9/10/2017. (Bronze)
8. Nursalasawati Rusli, **Maz Jamilah Masnan**, Amran Ahmed, Nor Fashihah Mohd Noor, *Discover Arithmetic using DAMAT, Minggu Penyelidikan & Inovasi 2017 (MPI'17)*, UMT, 12-13/4/2017. (Gold)
9. **Maz Jamilah Masnan**, Nursalasawati Rusli, Amran Ahmed, Nor Fashihah Mohd Noor, *Genius Math Begins with DAMAT, Ekspo Rekacipta & Pameran Penyelidikan UniMAP (EREKA 2016)*, UniMAP, 15/3/2017. (Gold)
10. **Maz Jamilah Masnan**, Nursalasawati Rusli, Amran Ahmed, Nor Fashihah Mohd Noor, *Genius Math Begins with DAMAT, Ekspo Rekacipta & Pameran Penyelidikan UniMAP (EREKA 2016)*, 15/3/2017. (Silver, Short Video Competition)
11. **Maz Jamilah Masnan**, Nursalasawati Rusli, Nor Fashihah Mohd Noor, *Development of Learning Arithmetic Operations Approach Through DAMAT Games: A Preliminary Study. The 3rd International Innovation Design and Articulation (i-IDEA2016™)*, Kangar, 27-29/4/2016. (Silver)
12. **Maz Jamilah Masnan**, Nursalasawati Rusli, Nor Fashihah Mohd Noor, *DAMAT, Innovation and Invention in Education Competition 2016 (2iec2016)*, UPSI, 19/5/2016. (Gold).
13. Ali Yeon Md Shakaff, Mohamad Iqbal Omar, Ammar Zakaria, Amizah Othman, Latifah Munirah Kamarudin, Ewe Juan Yup, Azian Azamimi Abdullah, Nurlisa Yusuf@Idris, Shaharil Mad Saad, **Maz Jamilah Masnan**, Mohd Sadek Yasin, Zulkarnay Zakaria, Nur Zawatil Isqi Zakaria, Hani Nabilla Maamor & Fatin Nabilah Abd Rashid, *Rapid Bacteria Species Detection for Diabetic*

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Foot Inspection. **24th International Invention, Innovation & Technology Exhibition (ITEX) 2013**, Kuala Lumpur, 9-11/5/2013. (Gold)

14. Ali Yeon Md Shakaff, Hamid Adom, Ammar Zakaria, Latifah Munirah Kamarudin, Fathinul Syahir Ahmad Saad, Abu Hassan Abdullah, **Maz Jamilah Masnan**, Nur Zawati Isqi Zakaria, Nurlisa Yusuf@Idris, Fatin Nabilah Abd Rashid, Hani Nabilla Maamor, Norazian Subari, Muhammad Shaifullah Suhaimi. *Honey Authenticity Tester*. **24th International Invention, Innovation & Technology Exhibition (ITEX) 2013**, Kuala Lumpur, 9-11/5/2013. (Gold).

INTELLECTUAL PROPERTY [Registered IP, Product, Innovator, Registered Year]

1. Copyright [CRLY2024P04793], Methodology to Improve Classification of Diabetic Retinopathy Stages Based on Fused Predictors of Diabetes Mellitus Linked Diseases, Syafawati Ab Saad, **Maz Jamilah Masnan**, Karniza Khalid, Safwati Ibrahim, 1/8/2024.
2. Copyright [CRLY2024P04793], Modul Cerdik Matematik Tingkatan 1 (Modul Guru), Siti Jasmida Jamil, **Maz Jamilah Masnan**, Nursalasawati Rusli, Nadiatulfarah Abd Hamid, Nurul Huda Abdul Aziz, Mohd Faiz Shuib, 1/8/2024.
3. Copyright [CRLY2024P04793], Modul Cerdik Matematik Tingkatan 2 (Modul Guru), Nurul Huda Abdul Aziz, Mohd Faiz Shuib, Siti Jasmida Jamil, **Maz Jamilah Masnan**, Nursalasawati Rusli, Nadiatulfarah Abd Hamid, 1/8/2024.
4. Copyright [CRLY2024P04793], Modul Cerdik Matematik Tingkatan 3 (Modul Guru), Nadiatulfarah Abd Hamid, Nursalasawati Rusli, Nurul Huda Abdul Aziz, Mohd Faiz Shuib, Siti Jasmida Jamil, **Maz Jamilah Masnan**, 1/8/2024.
5. Trademark "DAMAT" [TM2022014462], Class 28 - Board Games; Games, Toys & Playthings, 13/6/2022-13/6/2032, **Maz Jamilah Masnan**, Nursalasawati Rusli, Nor Fashihah Mohd Noor, Amran Ahmed, 2022.
6. Copyright [LY2022P03577], DAMAT User Manual, **Maz Jamilah Masnan**, Nursalasawati Rusli, Nor Fashihah Mohd Noor, Amran Ahmed, 2022.
7. Copyright [AR2022P03578], DAMAT Board Games, **Maz Jamilah Masnan**, Nursalasawati Rusli, Nor Fashihah Mohd Noor, Amran Ahmed, 2022.
8. Copyright [LY2022P03576], Medical Dashboard for Monitoring Diabetes-Linked-Diseases: Diabetic Retinopathy and Diabetic Nephropathy, **Maz Jamilah Masnan**, Muhammad Fakhrul Badaruddin, Syafawati Ab Saad, Dr. Karniza Khalid, Safwati Ibrahim, Dr. Noorhafini Abdul Sukur, Dr. Muhamad Ruzaini Abd Hamid, Dr. Nor Shaffinaz Yusoff Azmi Merican, 2022.
9. Copyright [LY2022P01244], *Modul Numerasi Asas 1, Edisi Sekolah Kebangsaan (SK)*, **Maz Jamilah Masnan**, Lailatulnor Ibrahim, Nursalasawati Rusli, Nur Asma Zulkifli, Nurul Huda Abdul Aziz, Kweh Ci Yin, Nor Fashihah Mohd Noor, Saanthini Vijayan, Hafizudin Mohamad Nor, 2022.
10. Copyright [LY2022P01245], *Modul Numerasi Asas 2, Edisi SK*, **Maz Jamilah Masnan**, Lailatulnor Ibrahim, Nursalasawati Rusli, Nur Asma Zulkifli, Nurul Huda Abdul Aziz, Kweh Ci Yin, Nor Fashihah Mohd Noor, Saanthini Vijayan, Hafizudin Mohamad Nor, 2022.
11. Copyright [LY2022P01246], *Modul Numerasi Asas 3, Edisi SK*, **Maz Jamilah Masnan**, Lailatulnor Ibrahim, Nursalasawati Rusli, Nur Asma Zulkifli, Nurul Huda Abdul Aziz, Kweh Ci Yin, Nor Fashihah Mohd Noor, Saanthini Vijayan, Hafizudin Mohamad Nor, 2022.
12. Copyright [LY2022P01247], *Modul Numerasi Asas 1, Edisi Sekolah Jenis Kebangsaan Cina (SJKC)*, **Maz Jamilah Masnan**, Lailatulnor Ibrahim, Nursalasawati Rusli, Nur Asma Zulkifli, Nurul Huda Abdul Aziz, Kweh Ci Yin, Nor Fashihah Mohd Noor, Saanthini Vijayan, Hafizudin Mohamad Nor, 2022.
13. Copyright [LY2022P01248], *Modul Numerasi Asas 2, Edisi SJKC*, **Maz Jamilah Masnan**, Lailatulnor Ibrahim, Nursalasawati Rusli, Nur Asma Zulkifli, Nurul Huda Abdul Aziz, Kweh Ci Yin, Nor Fashihah Mohd Noor, Saanthini Vijayan, Hafizudin Mohamad Nor, 2022.

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14. Copyright [LY2022P01249], *Modul Numerasi Asas 3, Edisi SJKC, Maz Jamilah Masnan*, Lailatulnor Ibrahim, Nursalasawati Rusli, Nur Asma Zulkifli, Nurul Huda Abdul Aziz, Kweh Ci Yin, Nor Fashihah Mohd Noor, Saanthini Vijayan, Hafizudin Mohamad Nor, 2022.
15. Copyright [LY2022P01250], *Modul Numerasi Asas 1, Edisi Sekolah Jenis Kebangsaan Tamil (SJKT), Maz Jamilah Masnan*, Lailatulnor Ibrahim, Nursalasawati Rusli, Nur Asma Zulkifli, Nurul Huda Abdul Aziz, Kweh Ci Yin, Nor Fashihah Mohd Noor, Saanthini Vijayan, Hafizudin Mohamad Nor, 2022.
16. Copyright [LY2022P01251], *Modul Numerasi Asas 2, Edisi SJKT, Maz Jamilah Masnan*, Lailatulnor Ibrahim, Nursalasawati Rusli, Nur Asma Zulkifli, Nurul Huda Abdul Aziz, Kweh Ci Yin, Nor Fashihah Mohd Noor, Saanthini Vijayan, Hafizudin Mohamad Nor, 2022.
17. Copyright [LY2022P01252], *Modul Numerasi Asas 3, Edisi SJKT, Maz Jamilah Masnan*, Lailatulnor Ibrahim, Nursalasawati Rusli, Nur Asma Zulkifli, Nurul Huda Abdul Aziz, Kweh Ci Yin, Nor Fashihah Mohd Noor, Saanthini Vijayan, Hafizudin Mohamad Nor, 2022.
18. Copyright [LY00027457], Bounded Mahalanobis Distance Feature Selection for Low Level Data Fusion, **Maz Jamilah Masnan**, Nor Idayu Mahat and Ali Yeon Md. Shakaff, 22 September 2020.
19. Copyright [CRLY00027458], Bounded Mahalanobis Distance Feature Selection for Intermediate Level Data Fusion, **Maz Jamilah Masnan**, Nor Idayu Mahat and Ali Yeon Md. Shakaff, 2020.
20. Copyright [LY00027459], Percentile Forward Feature Selection, **Maz Jamilah Masnan**, Nor Idayu Mahat and Ali Yeon Md. Shakaff, 2020.
21. Copyright [LY2017001923], Engineering Mathematics, **Maz Jamilah Masnan**, Aishah Mohd Noor, Nor Azrita Mohd Amin, Nor Fashihah Mohd Noor, and Syafawati Ab Saad, 2017.
22. Copyright [LY00005200], DAMAT, **Maz Jamilah Masnan**, Nursalasawati Rusli and Nor Fashihah Mohd Noor, 2016,

PUBLICATION

BOOK

1. Aishah Mohd Noor, **Maz Jamilah Masnan**, Nor Azrita Mohd Amin, Nor Fashihah Mohd Noor & Syafawati Ahmad Saad. *Engineering Statistics (revised version)*, (2022), Institute of Engineering Mathematics, ISBN:978-967-11189-5-5.
2. Aishah Mohd Noor, **Maz Jamilah Masnan**, Nor Azrita Mohd Amin, Nor Fashihah Mohd Noor & Syafawati Ahmad Saad. *Engineering Statistics (revised version)*, (2020), Institute of Engineering Mathematics, ISBN:978-967-11189-5-5.
3. Aishah Mohd Noor, **Maz Jamilah Masnan**, Nor Azrita Mohd Amin, Nor Fashihah Mohd Noor & Syafawati Ahmad Saad. *Engineering Statistics*, (2017), Institute of Engineering Mathematics.
4. Mohd. Noor, N. F., Abdul, A. H., Abdul Saad, S., Adnan, F. A., Mohd Yazid, N., Abdul Hamid, R., Mohd. Amin, N. A., Bidin, B., and **Masnan, M. J.** (2012). *Into Statistics*. McGraw Hill. ISBN 978-967-5771-51-4.

BOOK CHAPTER

1. Mahat N.I., **Masnan M.J.**, Shakaff A.Y.M., Zakaria A., Kadir M.K.A. (2018). *Artificial Odour Classification System*. In Electronic Nose Technologies and Advances in Machine Olfaction, pp. 25-37. DOI:10.4018/978-1-5225-3862-2.ch002 (Scopus)
2. Abdullah A.H., Rahim N.A., **Masnan M.J.**, Sa'ad F.S.A., Zakaria A., Shakaff A.Y.M., Omar O. (2016). *Rice and the Electronic Nose*. In Mendez, M. L. R., Electronic Noses and Tongues in Food Science. Academic Press, pp. 103-113. DOI: 10.1016/B978-0-12-800243-8.00011-1 (Scopus)

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3. **Maz Jamilah Masnan**, Ammar Zakaria, Ali Yeon Md. Shakaff, Nor Idayu Mahat, Hashibah Hamid, Norazian Subari & Junita Mohamad Saleh, (2011). *Principal Component Analysis – A Realization of Classification Success in Multi Sensor Data Fusion*. In Sanguansat, P., Principal Component Analysis – Engineering Application, Croatia; Rijeka, ISBN 979-953-307-562-3.

LECTURE NOTES SERIES

1. Fitriyani N., Salleh A.F., Salim M.S., Kasim M.F., Omar N., **Masnan M.J.**, Ghazali Z. (2021). *The Influence of Grasping Technique and Arm Posture on Shooting Performance in Traditional Archery*. In: Bahari M.S., Harun A., Zainal Abidin Z., Hamidon R., Zakaria S. (eds) Intelligent Manufacturing and Mechatronics. pp. 1119-1126. Lecture Notes in Mechanical Engineering, pp. 1119 – 1126. DOI: 10.1007/978-981-16-0866-7_99 (Scopus)
2. Ghazali N., **Masnan M.J.**, Ramli D.A. (2019). *Improving classification of micro embolus and artifact of HITS event by feature selection*. Lecture Notes in Electrical Engineering, 547, pp. 559 - 565. DOI: 10.1007/978-981-13-6447-1_71 (Scopus)

MODULE

1. Editor, Modul Bijak Matematik Tahun 2, 3, 4, 5 dan 6 (Murid Pemulihan Khas Matematik). Edisi Murid dan Guru, Sekolah Kebangsaan, Sek. Jenis Keb. Cina dan Sek. Jenis Keb. Tamil, Percetakan Siaran Sdn. Bhd. (2025)
2. Siti Jasmida Jamil, **Maz Jamilah Masnan**, Nursalasawati Rusli, Nadiatulfarah Abd Hamid, Nurul Huda Abdul Aziz, Mohd Faiz Shuib. Modul Cerdik Matematik Tingkatan 1 (Modul Guru & Modul Murid), Mina Jiddan, 30/9/2024.
3. Nurul Huda Abdul Aziz, Mohd Faiz Shuib, Siti Jasmida Jamil, **Maz Jamilah Masnan**, Nursalasawati Rusli, Nadiatulfarah Abd Hamid. Modul Cerdik Matematik Tingkatan 2 (Modul Guru & Modul Murid), Mina Jiddan, 30/9/2024.
4. Nadiatulfarah Abd Hamid, Nursalasawati Rusli, Nurul Huda Abdul Aziz, Mohd Faiz Shuib, Siti Jasmida Jamil, **Maz Jamilah Masnan**. Modul Cerdik Matematik Tingkatan 3 (Modul Guru & Modul Murid), Mina Jiddan, 30/9/2024.
5. **Maz Jamilah Masnan**, Lailatulnor Ibrahim, Nursalasawati Rusli, Nur Asma Zulkifli, Nurul Huda Abdul Aziz, Kweh Ci Yin, Nor Fashihah Mohd Noor, Saanthini Vijayan, Hafizudin Mohamad Nor. (2022). *Modul Numerasi Asas 1* (Edisi SK) (Modul Guru & Modul Murid), Mina Jiddan, 30/3/2022.
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14. Aishah M.N., **Maz Jamilah M.J.**, Nor Azrita M.A., Nor Fashihah M.N. and Syafawati S. (2016). *Engineering Statistics*. Institut Matematik Kejuruteraan, UniMAP.
15. **Maz Jamilah Masnan**. (2008). Module DQT203, Introduction to Differential Equations, UniMAP.
16. Siti Jasmida Jamil, **Maz Jamilah Masnan**, Haslina Zakaria. (2008). Module DQT102, Mathematics II, UniMAP.

JOURNAL PUBLICATION

1. Syafawati Ab Saad, **Maz Jamilah Masnan**, Safwati Ibrahim, Karniza Khalid, Dodi Devianto. (2026). Application of Intermediate Level Data Fusion to Improve Classification of Diabetic Retinopathy. *Journal of Advanced Research in Applied Sciences and Engineering Technology* 59, Issue 2, 10-19. (Scopus)
2. Khatijahhusna Abd Rani, Hamzah Abdul Hamid, **Maz Jamilah Masnan**, Wan Zuki Azman Wan Muhamad. (2025) Applied Mathematics and Computational Intelligence (AMCI), 14(4), 133-143. (MyCite)
3. Che Isa Z, Lim JA, Ain AM, Othman FA, Kueh YC, Tew MM, **Masnan M.J.**, Ibrahim A. (2023). Clinical profiles and predictors of survival in severe dengue cases. *Singapore Med J.*, 2023 Nov. 3. doi: 10.4103/singaporemedj.SMJ-2022-072. PMID: 38037775. (Q3 Scopus)
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5. Areena Dalila Mohd Din, Mohd. Khirzanbadzli A Rahman, Abdul Kadir Othman, Wan Edura Wan Rashid, **Maz Jamilah Masnan**, Ismael Abu Jarad. (2021). The Association of Information and System Quality toward User Intention in Using Self-Service Technology, *International Journal of Academic Research in Business and Social Sciences*, 11(11), pp. 2423-2433. (ERA)
6. Yusuf S.N.A., Rahman A.M.A., Zakaria Z., Subbiah V.K., **Masnan M.J.**, Wahab Z. (2020). Morphological Variability Identification of Harumanis Mango (*Mangifera indica L.*) Harvested from Different Location and Tree Age. *Tropical Life Sciences Research*, 31(2), pp. 107-143. (Q2 Scopus).
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2. S. A. Syafawati, **M. Maz Jamilah**, K. Karniza, I. Safwati. (2023). Predictor selection for progression and development of diabetic nephropathy among diabetes mellitus type 2 patients. *AIP Conf. Proc.*, 2544, 040012. doi.org/10.1063/5.0117710 (Scopus)
3. Ooi B.P., Rahim N.A., **Masnan M.J.**, Zakaria A. (2021). A study of extreme learning machine on small sample-sized classification problems. *Journal of Physics: Conference Series* 2007(1), art. no. 012013. DOI: 10.1088/1742-6596/2107/1/012013 (Scopus)
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10. Abdullah A.H., Adom A.H., Shakaff A.Y.M., **Masnan M.J.**, Zakaria A., Rahim N.A., Omar O. (2015). Classification of Malaysia Aromatic Rice using Multivariate Statistical Analysis, *AIP Conference Proceedings*, 1660, art. no. 090005. DOI: 10.1063/1.4915849. (Scopus)
11. N. Abdul Rahim, Paulraj M.P., A.H. Adom, S.A.A. Shukor and **M.J. Masnan**. (2015). “Multi-Classifier System for Moving Vehicles Noise Classification based on K-Nearest Neighbor”, *Proceeding of the 2015 International Symposium on Advanced Engineering (ISAE 2015) – Best Paper Award*, Busan, South Korea on 23/10/2015.

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13. **Maz Jamilah Masnan**, Nor Idayu Mahat, Ali Yeon Md Shakaff, Abu Hassan Abdullah, Nur Zawtil Isqi Zakaria, Nurlisa Yusuf, Norazian Subari, Ammar Zakaria, and Abdul Hallis Abdul Aziz. (2014). Understanding Mahalanobis distance criterion for feature selection, International Conference on Mathematics, Engineering & Industrial Application 2014 (ICoMEIA 2014). *AIP Conference Proceedings*, 1660(1), 050075.
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22. **M. Maz Jamilah**, M. Nor Idayu and M.S. Ali Yeon. (2012). Applications of Humanlike Artificial Sensors to Support Research in the Malaysian Food Industries. Proc. of Univ. Malaysia Terengganu, *11th International Annual Symposium on Sustainability Science and Management 2012 Proceedings*, 9-11/7/2012.
23. Abdullah A.H., Adom A.H., Shakaff A.Y.M., Ahmad M.N., Zakaria A., Saad F.S.A., Isa C.M.N.C., **Masnan M.J.**, Kamarudin L.M. (2012). Hand-held Electronic Nose sensor selection system for Basal Stamp Rot (BSR) disease detection. (2012) Proceedings - 3rd International Conference on Intelligent Systems Modelling and Simulation, ISMS 2012, art. no. 6169796, pp. 737 – 742. DOI: 10.1109/ISMS.2012.139 (Scopus)
24. Abdul Hallis Abdul Aziz, Ali Yeon Md Shakaff, Rohani Farook, Mohd Noor Ahmad, Mahmad Nor Jaafar, **Maz Jamilah Masnan**, Abdul Hamid Adom. (2012). Development of a Decision Support System for Brackish Aquafarm Management Using Electronic Tongue. ICMS 2012 – *The 14th International Meeting on Chemical Sensors*. doi 10.5162/ICMS2012/P2.9.27.
25. Mohd Faizal Mohd Isa, Wan Sakizah Wan Mohd Noor, Zulkiflee Daud, **Maz Jamilah Masnan**, & Azmi Ali, (2011). Organizational Citizenship Behaviour and High-Performance Organization: Are They Relevant? *10th International Conference of the Asia Chapter*, Kuala Lumpur, 3-6/12/2011.
26. **Maz Jamilah Masnan**, Nor Idayu Mahat. (2010). “Issues on the Application of Classification Methods in Engineering.” 1st Regional Conference on Applied and Engineering Mathematics, Pulau Pinang, *RCAEM Proceedings*, 2-3/6/2010, Vol. 5, No. 6, pp. 478-483.
27. Abdul Hallis Abdul Aziz, Ammar Zakaria, Ali Yeon Md Shakaff, Abdul Rahman Saad, Abdul Hamid Adom, **Maz Jamilah Masnan**. (2010). “Comparison of Matlab’s Multivariate Analysis for Qualitative and Quantitative Electronic Taste Sensing System.” 1st Regional Conference on Applied and Engineering Mathematics, Pulau Pinang, *RCAEM Proceedings*, 2-3/6/2010, Vol. 4, No. 19, 454-456.
28. Abdul Hallis Abdul Aziz, Ammar Zakaria, Ali Yeon Md Shakaff, Abdul Hamid Adom, **Maz Jamilah Masnan** (2010). “Determination of Honey Floral Origin Using Data Fusion of Electronic Taste and Smell Sensing System.” 1st Regional Conference on Applied and Engineering Mathematics, Pulau Pinang, *RCAEM Proceedings*, 2-3/6/2010, Vol. 1, No. 32, 183-184.

ACADEMIC RECOGNITION

EXAMINER/CHAIRMAN (VIVA)

1. Chairman, MBA (Engineering Management) Project, Nurul Imanina Ahmad Fakaruddin, Relationship between Personality Traits and Conflict Management Among Engineers in Malaysia, 9/5/2022.
2. Internal Examiner (PhD), Mo'ath Moh'd Khair Faleh Al Luwaici, *Fuzzy Logic Approach for Improving Multi-Label Classification via Local Positive Dependencies among Labels*, 22/3/2021.
3. Internal Examiner (PhD), Mo'ath Moh'd Khair Faleh Al Luwaici, *A New Algorithm on Multi-Label Classification by Exploiting Local Positif Dependencies Among Labels Using Fuzzy Logic*, 23/1/2020.
4. Chairman MSc (Dissertation), Nur Hanun Abdul Halim, *Analysis of Students' Academic Performance via Statistical Mediation Analysis Using Multinomial Logistic Regression Approach*, 29/5/2019.
5. Chairman MSc (Dissertation), Mohd Shazli Ismail, *Analysis of Students' Academic Performance via Statistical Mediation Analysis Using Multinomial Logistic Regression Approach*, 29/5/2019.

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6. Internal Examiner MSc (Dissertation), Siti Raudhah Ismail, *Assessing the Effect of Different Distribution on Parameter Estimates for Multinomial Logistic Regression (MLR)*, 12/12/2018.
7. Internal Examiner MSc (Dissertation), Mohamed Sabri Ismail, *Determination of Risk Factors for Diabetic Dyslipidaemia in Perlis*, 13/12/2018.

EXAMINER/CHAIRMAN (PRE-VIVA)

1. Examiner (PhD), Lim Eng Aik, *Modified Radial Basis Function Network for Improving the Network Performance in Prediction Result*, 20/8/2019.
2. Chairman (PhD), Achmad Abdurrazaq, *Digital Image Computational Filtering via Tropical Algebra based Singular Value Decomposition*, 20/2/2019.
3. Examiner (PhD), Faisal Mohammed Ali, *New Process Capability Indexes based on Six Sigma for Measuring the Process Performance of Oil Refinery in Yemen*, 4/5/2018.

JURY/EVALUATOR

1. Chief Jury, International Industrial Revolution 4.0 Exposition 2024 (IREX 2024), Universiti Teknologi MARA (Kedah Branch), 21/5/2024.
2. Professional Jury, Social Innovation Competition, College of Business, UUM, 9-18/2/2023.
3. Jury, Digital Innovation Maths E-Shopping (DIMES), Kolej Matrikulasi Labuan, 26/9/2021.
4. Jury, 3rd International Human Resource Management, Innovation & Creativity Competition, College of Business, UUM, 9/11/2019.
5. Jury, IMK Postgraduate Research Symposium (IMPRESS 2019), 16/10/2019.
6. Evaluator, MYP IB Personal Project Showcase, SMK Sultanah Bahiyah, Alor Setar, 23/7/2019.
7. Evaluator, Projek Middle Years Programme International Baccalaureate SMK Sultanah Bahiyah 2019, 23/7/2019.
8. Jury, 2019 Annual Student Exhibition & Conference (ANEX'19), Pusat Pengajian Kejuruteraan Mikroelektronik, UniMAP, 2/5/2019.
9. Jury, 2nd International Human Resource Management, Innovation & Creativity Competition, College of Business, UUM, 30/11/2018.
10. Jury, 1st International Human Resource Management, Innovation & Creativity Competition, College of Business, UUM, 9/12/2017.

INVITED SPEAKER/TRAINER/LECTURE

1. Invited Speaker, International Scientific and Practical Conference on Current Problems of Algebras and Analysis, Termez State University, 15/10/2025.
2. Trainer, Supervised Learning: Classifications using RStudio Workshop, 23/9/2025.
3. Speaker, Philosophical and Theoretical of Research, Kursus Asas Pengajaran dan Pembelajaran, Pusat Kepimpinan Pendidikan Lestari (LEAD), 12/8/2025.
4. Speaker, Postgraduate Seminar, "How to Write Efficient Problem Statement", 26/1/2023.
5. Speaker, Workshop Perlis Mathematics Professional Learning Community Series (S1), "HOTS in Maths vs Teaching and Learning", Jabatan Pendidikan Negeri Perlis, 7/8/2023.
6. Speaker, Graduate Employability Enhancement Program Semester A222, College of Business, UUM, 3/6/2023.
7. Guest Lecture, Collaborative Teaching Applied Multivariate Analysis, UiTM Seremban, 17/5/2023.
8. Guest Lecture, Data Collection and Data Analysis, Pusat Pengajian Kejuruteraan Mekatronik, 11/3/2020.
9. Guest Lecture, Data Collection and Data Analysis, Pusat Pengajian Kejuruteraan Mikroelektronik, 23/8/2019.

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10. Speaker, *Kepentingan Matematik Dalam Bidang Teknikal*, Institut Kemahiran MARA Beseri, 16/4/2019.
11. Speaker, *Bengkel Inovasi dan Kreativiti*, Anjuran Pejabat Pembangunan Pelajar dan Alumni, College of Busines, UUM, DKG2, UUM Sintok , 19 September 2017.

OTHER EVALUATOR

1. Penilai, *Pemetaan Subjek Sijil Tinggi Pelajaran Malaysia (STPM) dengan Kursus Matematik Tahun 1 Universiti Awam*, 24/9/2025-31/12/2025.
2. Pengurus Penilai, *Bengkel Kerja Pernyediaan Bakal Penilai Aspek Kandungan Penerbitan Buku Teks Sekolah Menengah Pendidikan Khas Tahun 2025: Zon Utara*, 16-19/6/2025.
3. Task Force Pelaksanaan Kajian Keberkesanan Inisiatif Program Akademik Anjal (PAA) dan Pemendekan Program Akademik di Universiti Awam, 22/5/2025.
4. Bengkel Kaji Semula Kurikulum Program Sarjana Sains Matematik Kejuruteraan (Mod Campuran), Institut Matematik Kejuruteraan, UniMAP, 2015.

REVIEWER (JOURNAL)

1. Quality and Reliability Engineering International, *An Efficient Automatic Modulation Classification Approach using Improved Migration Algorithm-based Ensemble Machine Learning Network*, 2/1/2026.
2. Journal of Quality Measurement and Analysis, *Enhancing Predictive Performance in Sttistical Modeling: Innovative Hybrid Best Subset Feature Selection for Rice Production in Malaysia*, 16/2/2025.
3. Journal of Cancer Research and Clinical Oncology, *Application of electronic nose technology in the diagnosis of gastrointestinal diseases: A review*, 18/1/2024.
4. Malaysian Journal of Mathematical Sciences (ongoing), *An Expansion of Two Groups Location Model*, October 2023.
5. Journal of Statistical Modelling & Analytics (JOSMA), *Diagnosing Sexually Transmitted Disease from Some Symptoms Using Machine Learning Models: Diagnosis of Sexually Transmitted Diseases*, 26/1/2023.
6. International Journal of Information Technology & Decision Making, *Enhanced ultrasound classification of micro-emboli using convolutional neural network*, 14/7/2022.
7. Journal of Information and Communication Technology, *Comparative Performance Evaluation for High Dimension Classification Methods*, 12/4/2022.
8. Journal of Science and Technology, *Predicting Students' Inclination to TVET Enrolment Using Various Classifiers*, 12/4/2022.
9. Journal of Science and Technology, *Robust Linear Discriminant Rule using Double Trimming Location Estimator with Robust Mahalanobis Squared Distance*, 24/2/2022.
10. International Journal of Applied Mathematics and Computational Intelligence (AMCI), *Impact of Income on Body Mass Index and Blood Pressure*, 4/8/2021.
11. International Journal of Applied Mathematics and Computational Intelligence (AMCI), *Prediction of Rainfall by Using ARIMA Mixed Models*, 28/2/2021.
12. Journal of Statistical Modelling & Analytics (JOSMA), *Social Media Networks and its impact on Tertiary Institutions' Students Academics*, 24/1/2021.
13. Journal of Information and Communication Technology, Scopus Indexed, *The Effect of Resampling Methods on Linear Discriminant Analysis for Data Set with Two Imbalanced Groups*, 16/11/2020.
14. Journal of Information and Communication Technology, Scopus Indexed, *Comparison of Logistic Regression and Discriminant Analysis in Spam Email Classification*, 22/4/2020.

REVIEWER (CONFERENCE PAPER)

1. 2nd Joint International Conference on Mathematics, Statistics and Engineering (J-CoMSE 2024), Analysis of Linear and Nonlinear Regression on Manufacturing Income in Malaysia, 30/10/2024.
2. 2nd Joint International Conference on Mathematics, Statistics and Engineering (J-CoMSE 2024), Analysis of Multinomial Logistic Regression on Five Stages of Hepatitis C Virus, 30/10/2024.
3. 2nd Joint International Conference on Mathematics, Statistics and Engineering (J-CoMSE 2024), An Inflation Trends in Malaysia: A Time Series Perspective of CPI Data, 30/10/2024.
4. International Conference on Mathematics, Statistics, and Computing Technology, 17/6/2023.
5. 3rd International Recent Trends in Engineering, Advanced Computing and Technology Conference (IRTTEC) 2022.
6. 3rd International Recent Trends in Technology, Engineering and Computing Conference 2022 (Hybrid Conference), 29-30/8/2022.
7. 5th International Conference on the Roles of the Humanities & Social Sciences in Engineering 2021, Linear Programming for Profit Maximization in Automotive Industry. 15/7/2021.
8. 5th International Conference on the Roles of the Humanities & Social Sciences in Engineering 2021, Adoption of Big Data Analytics in Central Banks: A Conceptual Model. 15/7/2021.
9. J-CoMSE 2021, LASSO regression to determine risk factors for road accident casualties in Malaysia in the presence of multicollinearity, 26/2/2021.
10. ICMSA UUM, Indexed, Median Based Robust Correlation Coefficient, 2017.
11. ICMSA UUM, Indexed, The Stopping Rule for Winsorized Tree, 2017.
12. ICMSA UUM, Indexed, Double Moving Average Control for Exponential Distributed Life using EWMA, 2017.
13. ICMSA UUM, Indexed, Fuzzy Support Vector Machine for Microarray Imbalanced Data Classification, 2017.
14. ICoMEIA 2016, Indexed, An Efficient Rice Yield Predictive Model in Lower Northern Thailand, 2016.
15. ICoMEIA 2016, Indexed, Geographically Weighted Regression Analysis for Human Development Index, 2016.
16. ICoMEIA 2016, Modeling, Simulation and Implementation of Speed Control of DC Motor using TMS320F28335 DSP, 2016.
17. ICoMEIA 2016, Indexed, Geographically Weighted Regression Analysis for Human Development Index, 2016.
18. ICoMEIA 2016, Indexed, Geographically Weighted Regression Analysis for Human Development Index, 2016.
19. ICoMEIA 2016, Indexed, Geographically Weighted Regression Analysis for Human Development Index, 2016.
20. ICoMEIA 2014, Indexed, Observer Based Output Feedback Tuning for Underwater Remotely Operated Vehicle Based on Liner Quadratic Performance, 2015.
21. ICoMEIA 2014, Indexed, The Effect of Drying on Physical Properties of Bilimbi Slices (*Averrhoa Bilimbi L.*), 2015.
22. ICoMEIA 2014, Indexed, Fundamental Lamb Wave Interaction Around Through Defect in Plate, 2015.
23. ICoMEIA 2014, Indexed, Element of Free Galerkin Formulation of Composite Beam with Longitudinal Slip, 2015.
24. ICoMEIA 2014, Indexed, Statistical Evaluation of Metal Fill Widths for Emulated Metal Fill in Parasitic Extraction Methodology, 2015.

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25. ICoMEIA 2014, Indexed, Determinants of CO₂ Emission in Asean Countries using Energy and Mining Indicators, 2015.
26. ICoMEIA 2014, Indexed, Generalized Type II Fuzzy Bezier Interpolation Model for Type II Fuzzy Data, 2015.
27. ICoMEIA 2014, Indexed, A Mathematical Model of a Computational Problem-Solving System, 2015.

SEMINAR/CONFERENCE/COLLOQUIM

PRESENTER

1. Presenter, Biannual Seminar 2022 (Institute of Engineering Mathematics, UniMAP – Faculty of Science, Thaksin University – Department of Mathematics, Universiti Andalas), 14/12/2022.
2. Presenter, Open Webinar-IMK Seminar Series-7, How to Survive in Viva/Proposal Defence, 9/12/2020. Youtube access via <https://youtu.be/VmxkLQxBbKM>
3. Presenter, IMK Seminar Series-7, Fundamental Spatial Study for the Determination of Undiagnosed Diabetes Patients in the Highest Diabetes Mellitus (T2DM); The Findings, 21/8/2019.
4. Presenter, IMK Seminar Series-10, Making Sense of Sensor Data: Experience of Multi-Sensor Data Fusion in Food Industries, 27/12/2017.
5. Presenter, M. J. Masnan, Nor Idayu Mahat, Ali Yeon Md Shakaff and Abu Hassan Abdullah, "Sensors closeness test based on an improved [0, 1] bounded Mahalanobis distance Δ^2 ", The 2nd Innovation & Analytics Conference & Exhibition (IACE2015), Alor Setar Kedah, 29/9-1/10/2015.
6. Presenter, Maz Jamilah Masnan, Nor Idayu Mahat, Ali Yeon Md Shakaff, Norazian Subari, Ammar Zakaria, Abdul Hallis Abdul Aziz, Abu Hassan Abdullah, Nur Zawatil Ishqi Zakaria & Nurlisa Yusuf (2010). Understanding Mahalanobis distance criterion for feature selection. International Conference on Mathematics, Engineering and Industrial Applications (ICoMEIA 2014), The Gurney Hotel Resort & Residences, Penang, 28-30/5/2014.
7. Presenter, Maz Jamilah Masnan, Nor Idayu Mahat, Ali Yeon Md Shakaff, (2013). Classification of multi sensor data fusion involving e-nose and e-tongue. International Conference on Mathematical Sciences and Statistics (ICMSS2013), Kuala Lumpur, 5-7/2/2013.
8. Presenter, Maz Jamilah Masnan, Nor Idayu Mahat, Ali Yeon Md Shakaff, (2013). Incorporation of humanlike artificial sensors in the Malaysian food industries. 11th International Annual Symposium on Sustainability Science and Management, 9-11/7/2012.
9. Presenter, Maz Jamilah Masnan & Nor Idayu Mahat, (2010). Investigation on the Used of Classification Methods in Engineering. 1st Regional Conference on Applied and Engineering Mathematics (RCAEM'10), Eastern & Oriental Hotel, Penang, 2-3/6/2010.

POSTER PRESENTATION

1. M.J. Masnan, A. Zakaria, A.Y.M. Shakaff, N.I. Mahat, A.H. Adom, F.S.A. Sa'ad, (2011). Enhancing classification performance of multisensory data through extraction and selection of features. The 2nd International Conference on Bio-Sensing Technology, Amsterdam, 10-12/10/2011.
2. A.H. Abdul Aziz, A.Y.M. Shakaff, A. Zakaria, M.J. Masnan, M.N. Jaafar, M.N. Ahmad, (2011). Assessment of rapid screening of orthosiphon stamineus quality using electronic nose and tongue technology. The 2nd International Conference on Bio-Sensing Technology, Amsterdam, 10-12/10/2011.
3. Subari, A. Zakaria, A.Y.M. Shakaff, M.J. Masnan, J.M. Saleh, A.H. Adom, M.N. Ahmad, (2011). Comparison of honey originality using electronic nose, electronic tongue and its correlation

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with human sensory perception. The 2nd International Conference on Bio-Sensing Technology, Amsterdam, 10-12/10/2011.

4. A.H. Abdul Aziz, A.Y.M. Shakaff, A. Zakaria, M.J. Masnan, M.N. Jaafar, M.N. Ahmad, (2011). Assessment of rapid screening of orthosiphon stamineus quality using electronic nose and tongue technology. The 2nd International Conference on Bio-Sensing Technology, Amsterdam, 10-12/10/2011.

SERVICE/RESEARCH AWARDS

1. Anugerah Kecemerlangan Penyelidikan 2024, Anugerah Pengkomersialan Harta Intelek (DAMAT), 22/4/2025.
2. Anugerah Kecemerlangan Penyelidikan 2024, Anugerah Inovasi (Produk Penyelidikan-IPITEX 2024), 22/4/2025
3. Anugerah Kecemerlangan Penyelidikan 2024, Anugerah Inovasi (Harta Intelek), Modul Bijak Matematik (Pemulihan Khas Matematik Sekolah Rendah), 22/4/2025.
4. Anugerah Kecemerlangan Penyelidikan 2024, Anugerah Inovasi (Harta Intelek), Modul Cerdik Matematik (Pemulihan Khas Matematik Sekolah Menengah), 22/4/2025.
5. Anugerah Perkhidmatan Cemerlang 2018, Universiti Malaysia Perlis, 21/3/2019.
6. Anugerah Kecemerlangan Pameran Penyelidikan 2017, UniMAP, (Genius Math Begins with DAMAT).
7. Anugerah Kecemerlangan Penyelidikan UniMAP 2017, Anugerah Khas MyRA Buku Penyelidikan (Engineering Statistics).
8. Anugerah Kecemerlangan Penyelidikan UniMAP 2014, (Aromatic Rice Classification System-ARCSys), 24/3/2015
9. Anugerah Perkhidmatan Cemerlang 2007, Universiti Malaysia Perlis, 25/3/2008
10. Anugerah Kecemerlangan Sukan (Anugerah Pasukan Terbaik-Olahraga), Universiti Malaysia Perlis, 2007, 25/3/2008

COMMITTEE MEMBER (UNIVERSITY/FACULTY/INSTITUTE)

1. Secretariat, Program Kampung Angkat MADANI, 12/6/2025-31/12/2025.
2. Ahli, Jawatankuasa Pemilihan Syarikat, Perpustakaan Tuanku Syed Faizuddin Putra, 1/9/2025-1/9/2027.
3. Ahli, Majlis Peperiksaan Pengajian Siswazah (MPPS), Centre for Graduate Studies, 1/7/2025-30/9/2026.
4. Member, Jawatankuasa Tata tertib Pelajar Universiti Malaysia Perlis, 10/1/2025
5. Assistant Auditor, Audit Susulan Autonomi Universiti Malaysia Perlis, 2022-2025.
6. Member, Senat Universiti Malaysia Perlis, 1/9/2022 - 31/8/2024, 1/10/2024 - 31/7/2025.
7. AJK, Jawatankuasa Pembangunan Kebolehpasaran Graduan dan Keusahawanan, 30/7/2024-31/6/2025.
8. Member, Jawatankuasa Penyelidikan & Inovasi (JKPI), UniMAP, 1/9/2022 - 31/8/2024, 1/10/2024 - 31/6/2025.
9. Member, Majlis Peperiksaan Pengajian Siswazah (MPPS), UniMAP, 1/12/2022 - 31/8/2024, 1/10/2024 - 30/9/2026.
10. Member, Jawatankuasa Perancangan Akademik, UniMAP, 1/9/2022 - 31/8/2024, 1/10/2024 - 30/9/2026.
11. Member, Jawatankuasa Ijazah Tinggi Universiti (JITU), UniMAP, 1/12/2022 - 31/8/2024, 1/10/2024 - 30/9/2026.
12. Associate Research Fellow, Centre of Excellence for Social Innovation & Sustainability (CoESIS), UniMAP, 1/9/2022-31/12/2026)

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13. Member, Jawatankuasa, Ijazah Tinggi, Fakulti Sains Gunaan & Kemanusiaan (JITF), UniMAP, 15/9/2020 - 30/6/2022.
14. Chairman, Jawatankuasa Permohonan Rayuan Pelajar Pascasiswa FSGM, 23/2/2022.
15. Member, Jawatankuasa 5S, Sesi 2017-2021.
16. Member, Jawatankuasa Kualiti IMK, 1/3/2019 - 28/2/2021.
17. Member, Jawatankuasa Kecil Ijazah Tinggi IMK, 1/3/2019 - 28/2/2021.
18. Member, Jawatankuasa Pembangunan Dokumen Pematuhan Akredetasi Program Sarjana Sains (Matematik Kejuruteraan), IMK, FSGM, 10/11/2020.
19. Member, Jawatankuasa Ijazah Tinggi Universiti (JITU), 1/3/2019 - 28/2/2021.
20. Member, Jawatankuasa Editor Laporan Tahunan Institut Matematik Kejuruteraan, 1/1/2019-31/12/2019, 18/7/ 2019.
21. Member, Jawatankuasa Penyelidikan dan Inovasi IMK, 2017-2019, 13/3/2017.
22. Member, Jawatankuasa Audit Akademik IMK, UniMAP, program ijazah sarjana muda dan diploma 12/4/2017 - 28/2/2019.
23. Member, Jawatankuasa Penyelidikan dan Penerbitan IMK, 2015-2017.
24. Member, Kumpulan Inovatif dan Kreatif (KIK) IMK, 22 September 2014.

CONFERENCE COMMITTEE

1. Advisor, 2nd International Conference on Applied and Engineering Mathematics 2025 (ICoAEM 2025), World Trade Centre, Kuala Lumpur, 10/9/2025.
2. Advisor, 5th International Conference on Mathematics, Engineering & Industrial Applications (ICoMEIA 2024), organized by IMK UniMAP, Adya Hotel, Langkawi, 26-27 October 2024.
3. Advisor, 2nd Joint International Conference on Mathematics, Statistics and Engineering (J-CoMSE 2024), organized by IMK UniMAP, Kuala Terengganu, 17-18 September 2024.
4. Advisor, Simposium Kebangsaan Sains Matematik (SKSM KE30), Hotel Raia, Alor Setar, 26-27 September 2023.
5. Vice Chairperson, 3rd ICoMEIA 2018, organized by IMK UniMAP, UTM & UiTM Kedah, 24-26 July 2018.
6. Secretariat, 2nd ICoMEIA 2016, organized by IMK UniMAP & Thaksin University. 10-12 August 2016.
7. Editor, 2nd ICoMEIA 2016, organized by IMK UniMAP & Thaksin University. 10-12 August 2016.
8. Logistic & Technical Committee, ICoMEIA 2014, 28-30 May 2014.
9. Secretariat, 1st Regional Conference on Applied and Engineering Mathematics (RCAEM'10), Eastern & Oriental Hotel, Penang, 2-3 June 2010.

EVALUATOR (INSTITUTE-UNIVERSITY)

1. Panel Penilai Geran, Geran Dalaman UniMAP 2020, Peringkat Fakulti Sains Gunaan & Kemanusiaan, 17/11/2020.
2. Penilai Tugasan/Penilaian Berterusan Kursus Matematik, Sem 2 2019/2020. 9/3/2020.
3. Ketua Bidang dan Penilai Kertas Peperiksaan Akhir Kursus Matematik, Sem 1 2019/2020, 6/10/2019.
4. Penilai, Progress Report Presentation Series 1 2019, 9/7/2019.
5. Ketua Bidang dan Penilai Kertas Peperiksaan Akhir Kursus Matematik, Sem 2 2018/2018, 2/4/2019.
6. Penilai, Progress Report Presentation Series 2 2018, 18/2/2019.
7. Penilai Kertas Peperiksaan Akhir Kursus Matematik, Sem 2 2017/2018, 5/4/2018.
8. Penilai, Kertas Peperiksaan Ujian Pertengahan Semester Kursus Matematik, Sem 2 2017/2018, 7/3/2018.
9. Penilai, Pembentangan Kertas Cadangan Penyelidikan Disertasi I (EQT598), 9-10/11/2017.

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10. Panel Penilai Geran FRGS 2017, Peringkat IMK, 3/2/2017.
11. Penilai Kertas Peperiksaan Akhir Kursus Matematik, Sem 1 2017/2018, 27/9/2017.

COMMUNITY SERVICE

1. Penceramah, Kem Lonjakan Akhir: Matematik untuk Juara, Program Kg. Angkat MADANI, 9/8/2025.
2. Penceramah, Mengapa Sains: Menyelongkar Pentingnya Bidang Sains, Integrated Design Project Exhibition 2025, 8/7/2025.
3. Penceramah, Kem Motivasi Pemantapan Konsep Kendiri, "Membentuk dan Meningkatkan Kesedaran Nilai Diri dan Transformasi Sikap Remaja untuk Masa Depan Cemerlang", Kolej Kediaman Tuanku Tengku Fauziah, UniMAP, 8/6/2024.
4. Penceramah, Program Didik Kasih@UUM-ICU, "Aku Berjiwa Besar", Dewan Seminar Pusat Islam, Universiti Utara Malaysia, 30/6/2022
5. Penceramah, Bengkel Pemantapan Kertas Penyelidikan Sesi 2021/2022 – Program MSc (OSHM), Pusat Pembelajaran Melaka & UUM KL, 20/12/2021.
6. Penceramah, From Dreams to Reality: How to Turn Innovative Ideas into Real World Application (online), UUM, 19/10/2021.
7. Penceramah, Program Community Engagement-Pemantapan Kendiri & Perencanaan Masa Depan Pelajar-Pelajar Lepasan SPM, "Meneroka Potensi Diri untuk Kerjaya Masa Depan". 31/5/2021. Anjuran Program Sarjana Muda Pengurusan Sumber Manusia (Kepujian), UUM.
8. Penceramah, Minggu Sains Negara 2018, Anjuran Kementerian Sains, Teknologi dan Inovasi, Malaysia, Dewan Baitul Hikmah, SMK Ayer Hitam, Kedah, 1 – 7 April 2018.
9. Speaker, Motivational Talk: The Right Attitude for Brighter Future, Al-Fateh Educational Institution, Kodiang Kedah, 1/3/2018.
10. Penceramah, Bengkel Kesedaran Sains, Teknologi, Kejuruteraan dan Matematik (STEM) 2017, Sek. Ren. Keb. Simpang Empat, Kuala Perlis, 14 November 2017.
11. Penceramah, Bengkel Kesedaran Sains, Teknologi, Kejuruteraan dan Matematik (STEM) 2017, SRJK (C) Khoon Aik, Kangar, 7 November 2017.
12. Penceramah, Bengkel Kesedaran Sains, Teknologi, Kejuruteraan dan Matematik (STEM) 2017, Sek Ren Islam I, Abi, Kangar, 6 November 2017.
13. Penceramah & Moderator, Program Pemantapan Kendiri & Perencanaan Masa Depan Cemerlang (PT3), 21 Februari 2016.
14. Penceramah & Moderator, Program Pemantapan Kendiri & Perencanaan Masa Depan Cemerlang (SPM), 17 Februari 2016.
15. Penceramah, Bengkel Bijak Matematik (murid tahun 2, 4 & 5), Sek. Keb. Sena – 22 Februari 2016.
16. Penceramah, Bengkel Bijak Matematik (murid tahun 4 & 5), Sek. Keb. Binjal – 17 Mei 2016.
17. Penceramah & Moderator, Program Pemantapan Kendiri & Perencanaan Masa Depan Cemerlang (Program Super Hero), Sek. Keb. Bandar Baru Sintok, 23 Februari 2014.
18. Penceramah & Moderator, Program Pemantapan Kendiri & Perencanaan Masa Depan Cemerlang (Program Super Hero), Sek. Keb. Bandar Baru Sintok, 16 Februari 2014.
19. Penceramah, Siri Perkongsian Ilmu 2011 (I), Menggapai Mimpi Menjadi Realiti; Membina Keyakinan, Menyerlahkan Kejayaan, S.A.M. Bagan Terap, Sungai Besar, Selangor, 1 Jun 2011.
20. Penceramah, Ceramah Pemantapan Sikap, Akademik Cemerlang, Program Bakti Siswa Perdana Peringkat Kebangsaan, Dewan Orang Ramai Kg. Katong, 26 Julai 2008.
21. Penceramah, Program Menggapai Mimpi Menjadi Realiti: Membina Keyakinan Menyerlahkan Kejayaan, Dewan SAM Bagan Terap, Sungai Besar Selangor, 1 Jun 2011.

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22. Penceramah, Ceramah Motivasi; Cemerlang Belajar, Akademik dan Masa Depan, Sek. Men. Ren. Agama Kuala Kelawang, Jelebu, Negeri Sembilan, 11 Jun 2007.
23. Penceramah, Ceramah Motivasi; Sayang di Sayang, Asrama Anak Yatim dan Miskin Baitul Ehsan, Kg. Perik, Kuala Nerang, Kedah, 14 Julai 2007.
24. Penceramah, Ceramah Kecemerlangan Diri Membawa Kejayaan (Pelajar tahun 6), Sek. Keb. Bandar Baru Sintok, Kedah, 13 Mei 2007.
25. Penceramah, Ceramah Persediaan ke IPT: Pilihan Tepat, Halatuju Cemerlang, Masa Depan Gemilang, Sek. Men. Keb. Putra, Kangar, Perlis, 30 Jun 2008.
26. Penceramah, Ceramah Matematik Skor A, Sek. Men. Keb. Putra, Kangar, Perlis, 30 Jun 2008.
27. Penceramah, Effective Study Skill, Ko-Kurikulum Persatuan Bulan Sabit Merah, Dewan Kuala Perlis 3, 10 Februari 2007.
28. Penceramah, Effective Study Skill, Ko-Kurikulum Jabatan Pertahanan Awam, Dewan Kuala Perlis 2, 17 Mac 2007.

SPORT

1. Juara Bola Jaring, Pertandingan Sukan Tertutup Agensi Kerajaan & Swasta Perlis, 15/2/2020.
2. Juara Bola Jaring, Karnival Sukan Kakitangan Akademik IPT 2019, USIM, 30/10/2019.
4. Pingat Emas, 100m Staf Wanita Veteran, Kejohanan Olahraga Tertutup UniMAP, Kompeks Sukan Tuanku Syed Faizuddin Putra, UiTM Perlis, 2009.
5. Pingat Emas, 200m Staf Wanita Veteran, Kejohanan Olahraga Tertutup UniMAP, Kompeks Sukan Tuanku Syed Faizuddin Putra, UiTM Perlis, 2009.
6. Olahragawati Staf Wanita (Senior), Kejohanan Olahraga Tertutup UniMAP 2007, Kompleks Sukan Tuanku Syed Faizuddin Putra, UiTM Perlis.
7. Pingat Perak, 4 x 400m Wanita Terbuka, Kejohanan Sukan Staf Antara Universiti Malaysia ke 32, Stadium Kangar, 2007.
8. Pingat Gangsa, 4 x 100m Wanita Terbuka, Kejohanan Sukan Staf Antara Universiti Malaysia ke 32, Stadium Kangar, 2007.
9. Pingat Emas, 4 x 100m Peserta Jemputan Wanita, Sempena Perasmian dan Penamaan Kompeks Sukan Tuanku Syed Faizuddin Putra, UiTM Perlis, 18 Julai 2007.
10. Pingat Emas, Lompat Jauh Staf Wanita (Senior), Kejohanan Olahraga Tertutup UniMAP, Kompeks Sukan Tuanku Syed Faizuddin Putra, UiTM Perlis, 2007.
11. Pingat Emas, 200m Staf Wanita (Senior), Kejohanan Olahraga Tertutup UniMAP, Kompeks Sukan Tuanku Syed Faizuddin Putra, UiTM Perlis, 2007.
12. Pingat Perak, 100m Staf Wanita (Senior), Kejohanan Olahraga Tertutup UniMAP, Kompeks Sukan Tuanku Syed Faizuddin Putra, UiTM Perlis, 2007.
13. Pingat Emas, 4 x 100m Staf Wanita (Senior), Kejohanan Olahraga Tertutup UniMAP, Kompeks Sukan Tuanku Syed Faizuddin Putra, UiTM Perlis, 2007.