



SCHOOL OF COMPUTER SCIENCES



ANNUAL REPORT 2025



EDITORIAL TEAMS

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ASSOCIATE PROFESOR DR. WAN MOHD NAZMEE WAN ZAINON

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TS. DR. RAMONA BINTI RAMLI

ABOUT

School of computer Sciences





ABOUT

School of Computer Sciences

The School of Computer Sciences, Universiti Sains Malaysia (USM) was officially established on 1 March 1995, after operating for 20 years as the Division of Computer Science. Since then, the School has grown into a leading centre for computer science education, research, innovation and community engagement, with strong emphasis on producing competent and future-ready graduates.

Research activities in the School are organised under three main clusters: Enabling Technologies & Infrastructure, Data to Knowledge, and Service Computing. The School also maintains strong collaborations with industry and international universities through research projects, consultancy, postgraduate supervision, academic exchanges and knowledge-sharing activities.

Located at USM's main campus in Penang, the School continues to strengthen its academic programmes, research excellence and strategic partnerships. With expertise in areas such as artificial intelligence, cybersecurity, data science, digital forensics and emerging technologies, the School remains committed to contributing to technological advancement and the sustainable digital development of Malaysia and beyond.

UPPER MANAGEMENT



DEAN

ASSOC. PROF. DR. WAN MOHD NAZMEE WAN ZAINON



DEPUTY DEAN

DR. MOHD ADIB OMAR



DEPUTY DEAN

ASSOC. PROF. DR. WONG LI PEI

Programme Managers



COMPUTER SCIENCE
ASSOC. PROF. TS. DR. CHEW XINYING



SOFTWARE ENGINEERING
DR. SUKUMAR LECTHUMUNAN



INDUSTRIAL TRAINING, STUDENT ACTIVITIES, & COMMUNITY ENGAGEMENT
ASSOC. PROF. DR. AHMAD SUFRIL AZLAN MOHAMED



DATA SCIENCE & DIGITAL TRANSFORMATION
DR. NOOR FARIZAH IBRAHIM



RESEARCH ECOSYSTEM & STRATEGIC PLANNING
ASSOC. PROF. DR. GAN KENG HOON

Admin Staff



DEPUTY REGISTRAR

IZAM FAIRUS KAMARUDDIN

(ACADEMIC AND POSTGRADUATE STUDIES SECTION)



SENIOR ASSISTANT REGISTRAR

MAHFUZAH OTHMAN

(HUMAN RESOURCE AND RESEARCH SECTION)

Academic Staff

1.	Ahmad Sufril Azlan Mohamed	B IT (Hons), Multimedia Technology. MSc, Computing Science. PhD	Multimedia University, University of Manchester, UK University of Salford, UK	Image Processing, Computer Vision
2.	Aman Jantan	BSc, Computer Science. MSc, Computer Sciences. PhD.	USM USM USM	Computer & Network Security, Cybersecurity
3.	Anusha Achuthan	BSc (Hons), Computer Science. MSc, Computer Science. PhD.	USM USM USM	Computer Vision, Image Processing, Medical Image Analysis
4.	Azizul Rahman Mohd Shariff	BEng (Hons), Electrical & Electronics. MSc, Personal, Mobile & Satellite Communications PhD.	University of Plymouth, UK, University of Bradford, UK University of Bradford, UK	Mobile & Cellular Networks, Vehicular Networking
5.	Azleena Mohd Kassim, Senior	BSc (Hons), Computer Science. MSc, Computer Science. PhD.	USM USM USM	Knowledge Engineering & Management, Artificial Intelligence, Metaheuristics Algorithm, Evolutionary Computing, Health Informatics, Group/Coalition Formation

Academic Staff

6.	Azman Ab Malik	B Tech (Hons), Electric & Electronics. MSc, Electrical & Electronics Engineering. PhD.	UNIKL USM UITM	Internet of Things, Embedded System, Microcontroller, Machine Learning, Artificial Intelligent, Robotic
7.	Chan Huah Yong	BSc (Hons), Computer Science. MSc, Computer Science. PhD.	USM USM University of Franche- Comté, France	Parallel & Distributed Processing, Grid Computing
8.	Cheah Yu-N	PhD	USM	Knowledge Management, Intelligent Systems, Health Informatics
9.	Chong Yung Wey	BEng (Hons), MSc, PhD	UM USM USM	Cyber physical system, cloud computing, artificial intelligence, cyber security

Academic Staff

10.	Chew XinYing	B IT (Hons) ,Information Technology. PhD.	UKM USM	Natural Language Processing, Data Mining
11.	Fadratul Hafinaz Hassan	BSc (Hons), Interior Design. MSc, Information Technology. PhD.	USM USM Brunel University London, UK	Optimization, Heuristic Search, Evolutionary Algorithm
12.	Gan Keng Hoon	BSc (Hons), Information Technology. MSc, Computer Science. PhD.	UKM USM UM	Information Retrieval, Semantic Web Search, Query Optimization
13.	G.C. Sodhy	Computer Science. MSc, Computer Science.	USM USM	IParallel & Distributed Processing, Grid Computing
14.	Hazrina Binti Yusof Hamdani	B.Tech (Hons), Information Technology M.Sc PhD	UTP USM UKM	Sequential and Parallel Algorithms Applied Graph Theory Health Informatics Predictive Analytics in Machine Learning Web Services
15.	Jasy Liew Suet Yan	Diploma, Computer Science (Information Technology). BSc (Hons), Computer Science. MSc, Information Management. PhD, Information Science.	UTM USM Syracuse University, USA Syracuse University, USA	Sentiment & Text Analysis, Natural Language Processing, Machine Learning

Academic Staff

16.	Lim Chia Yean	BSc (Hons), Computer Science. MBA, Software Engineering. PhD	USM INTI COLLEGE USM	Contextualizati on (Knowledge Acquisition), Customer lifetime value, Data Analytics, E-Commerce UX Design
17.	Manmeet Kaur Mahinderjit Singh	BSc (Hons), Computer Science. MSc, Computer Science.	PhD. USM USM University of Queenlands, Australia	Data Security, Security & Privacy
18.	Mohammad Ali Sarvghadi	BSc in Computer Hardware. MSc, Computer Science. PhD	Khayyam University, Iran USM USM	Wireless Sensor Network MAC protocols, Internet of Things, Routing in LEO Satellite Constellations
19.	Mohd Adib Omar	BSc, Computer Science. MSc, Computer Science. PhD.	American University, Washington DC, USA USM USM	Collaborative Computing, Distributed Computing
20.	Mohd. Azam Osman	BSc (HONS), Computer Science. MSc, Computer Science	USM USM	Distributed Shared Memory Systems, Multicore Programming

Academic Staff

21.	Mohd Halim Mohd Noor	BEng, Computer & Information Engineering. MSc., Electrical & Electronic Engineering. PhD.	UIAM USM University Of Auckland, New Zealand	Machine learning and deep learning for computer vision and pervasive computing
22.	Mohd Heikal Husin	BA (Hons), Multimedia Computing. Master of E- Commerce. PhD.	Coventry University, UK University of South Australia, Australia University of South Australia, Australia	Government 4.0, Policy Development, Enterprise 4.0
23.	Mohd Nadhir Ab Wahab	BEng (Hons), Mechatronics Engineering. MSc, Mechatronics Engineering. PhD.	UNIMAP UNIMAP University Of Salford, UK	Computer Vision, Deep Learning, Machine Learning, Meta- heuristics, Mobile Robotics, Swarm Intelligence, Path Planning, IoT
24.	Mohd Najwadi Yusoff	B. Tech (Hons) ICT. MSc, Computer Science. PhD.	UTP USM UPM	Digital Forensic, Cybersecurity, Blockchain

Academic Staff

25.	Nasuha Lee Abdullah	B Eng, Computer Engineering. MSc Informatic. PhD (Doctor of Engineering)	UPM USM UTM	Information Systems/IT, Technopreneurship, Engineering Business Management, Quality Management
26.	Noor Farizah Ibrahim	B Tech (Hons), Information Technology. MSc, Information Management. PhD.	UTP UiTM University Of Bristol, UK	Data/Text Analytics, Data Mining, Machine Learning, and Social Media Research
27.	Nor Athiyah Abdullah	B IT (Hons), Software Engineering. MSc, Computer Science. PhD.	UMT USM Iwate University, Japan	Social Media, Human-Computer Interaction
28.	Nur Hana Samsudin	BSc (Hons), Computer Science. MSc, Computer Science. PhD.	USM USM University of Birmingham, UK	Natural Language Processing, Speech Processing

Academic Staff

29.	Nur Intan Raihana Ruhaiyem	BMM (Hons), Multimedia. MSc, Computer Science. PhD.	UUM USM University Of Queensland Australia	Image Analysis, Computer Vision
30.	Nursakirah Binti Ab Rahman Muton	BSc (Hons), Computer Science. MSc, Computer Science. PhD.	USM USM UUM	Information Systems
31.	Nurul Hashimah Ahamed Hassain Malim	BSc (Hons), Computer Science. MSc, Computer Science. PhD.	USM USM The University of Sheffield, UK	Cheminformatics, Bioinformatics, Data Mining
32.	Putra Sumari	BSc (Hons.), Computer Science. MSc, Computer Science. PhD.	USM Liverpool University, UK Liverpool John Moores University, England	Distributed Multimedia & Communication
33.	Ramona Ramli	BSc (Hons.), Computer Science. MSc, Computer Science. PhD.	UPM UPM UNITEN	Trust Evaluation, Fuzzy Logic, Multi- Criteria Decision Making, Software Testing, Social Commerce

Academic Staff

34.	Siti Hazyanti Binti Mohd Hashim	BSc (Hons), Multimedia Computing. Msc, Computer Science. PhD.	UiTM UiTM UiTM	Multimedia , Game Technology, Virtual reality
35.	Sukumar Lecthmunan	BSc (Hons) Computer Science. MSc, Computer Science. PhD	UPM UPM University of Strathclyde , UK	Software Engineering, Software Metrics
36.	Suzi Iryanti Fadilah	BSc (Hons.), Computer Science. MSc, Computer Science. PhD.	UTeM UTeM USM	Wireless Networks, Vehicular Ad- Hoc Networks
37.	Syaheerah Lebai Lutfi	BSc (Hons), Information Computing. Master, Software Engineering. PhD.	Bolton Institute of Technology, England, UK UM Universidad Politécnica De Madrid, Spain	Human Computer Interaction (HCI), Affective Computing
38.	Tan Tien Ping	BSc (Hons), Computer Science. MSc, Computer Science. PhD.	USM USM Universite Joseph Fourier, University, France	Automatic Speech Recognition, Natural Language Processing

Academic Staff

39.	Vaithegy A/P Doraisamy	BSc,Computer Science. Msc, Computer Science. PhD.	UTM USM USM	Computer Networking, Metaverse, Internet Of Things (IoT), Cyber Security, Cloud Computing
40.	Wan Mohd Nazmee Wan Zainon	BSc (Hons)., Computer Science. MSc, Computer Science. PhD.	USM USM USM	Information Visualization, Multimedia Information Retrieval
41.	Wong Li Pei	BSc (Hons)., Computer Science. MSc, Computer Science. PhD.	USM USM Nanyang Technological University, Singapore	Operations Research, Scheduling and Timetabling
42.	Zarul Fitri Zaaba	BA (Hons.) IT. MSc, Computer Information Security. PhD, Data Security, 2014	UUM Royal Holloway University London,UK University Of Plymouth, UK	Information Security, Security & Usability

CS ACADEMICS



CS ACADEMICS

The School of Computer Sciences (CS), Universiti Sains Malaysia (USM), continues to strengthen its academic excellence by offering comprehensive undergraduate and postgraduate education in computer science and emerging areas of computing.

Since its establishment, the School has continuously evolved its academic programmes in response to technological developments and the changing needs of industry and society. The academic programmes emphasise strong theoretical foundations, practical skills, problem-solving, innovation, research and professional development.

In 2025, the School continued to provide a diverse range of academic programmes at undergraduate and postgraduate levels, covering areas such as intelligent computing, computing infrastructure, software engineering, data science, digital transformation and advanced computer science research.

The School's academic programmes are aligned with USM's educational goals, which emphasise producing graduates who are knowledgeable, balanced, entrepreneurial, articulate and holistic.

BACHELOR OF COMPUTER SCIENCES

The undergraduate programmes at the School of Computer Sciences provide students with comprehensive knowledge and practical skills across various areas of computing. The programmes are designed to prepare graduates for professional careers, further studies and lifelong learning in a rapidly evolving technological environment.

The undergraduate academic offerings include:

Bachelor of Computer Science (Honours) – Intelligent Computing

Bachelor of Computer Science (Honours) – Computing Infrastructure

Bachelor of Software Engineering with Honours

Bachelor of Computer Science (Honours) – Offshore Mode USM-UOWKDUPG

Bachelor of Software Engineering with Honours – Offshore Mode USM-UOWKDUPG

The programmes provide students with opportunities to develop competencies in artificial intelligence and intelligent systems, computing infrastructure, software development, programming, system design and other emerging areas of computer science.

POSTGRADUATE PROGRAMMES

The School offers postgraduate programmes through coursework, mixed-mode and research modes, providing opportunities for students and professionals to advance their knowledge and expertise in computer science and related disciplines.

The postgraduate programmes offered include:

Master of Science (Computer Science) – Mixed Mode

Master of Science (Data Science and Analytics) – Coursework Mode

Master of Digital Transformation – Coursework Mode

Master of Science (Computer Science) – Research Mode

Doctor of Philosophy (PhD)

The postgraduate programmes support advanced learning and research in areas including computer science, data science and analytics, digital transformation, artificial intelligence, information systems, human-computer interaction, service computing, data-to-knowledge and enabling technologies and infrastructures.

MASTER OF DIGITAL TRANSFORMATION

The Master of Digital Transformation programme was introduced as the Master of Science in Digital Transformation in the 2022/2023 academic year. Its nomenclature was changed to Master of Digital Transformation in October 2024.

The programme focuses on developing computing practitioners with advanced knowledge and skills in digital transformation, enabling them to adopt innovative technologies and methodologies to improve organisational processes, workforce efficiency, customer experience and business models.

The programme incorporates areas such as industrial digital transformation, digital entrepreneurship, systematic and lean innovation management, enterprise architecture, data science and analytics, cybersecurity and digital transformation projects.

RESEARCH PROGRAMMES

The School continues to support research-based postgraduate education through Master of Science and Doctor of Philosophy programmes.

Research activities are organised under three major research clusters:

Service Computing

Data to Knowledge

Enabling Technologies & Infrastructures

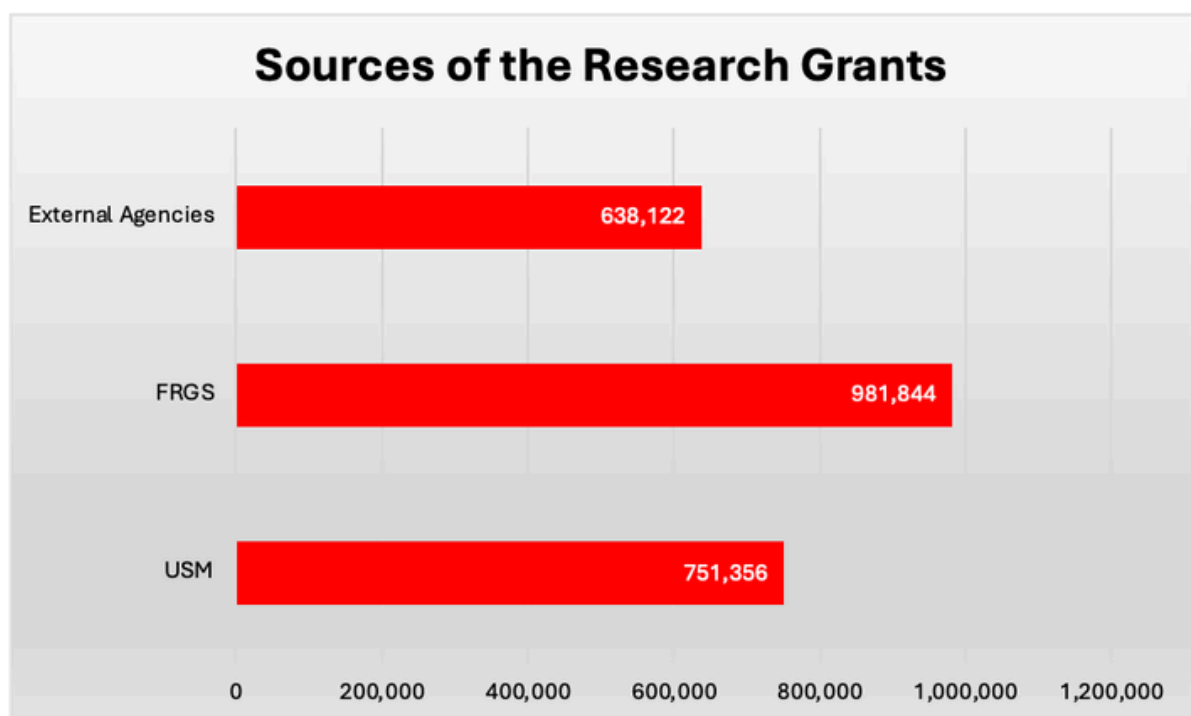
RESEARCH AND INNOVATIONS



Computer Science highlights in research

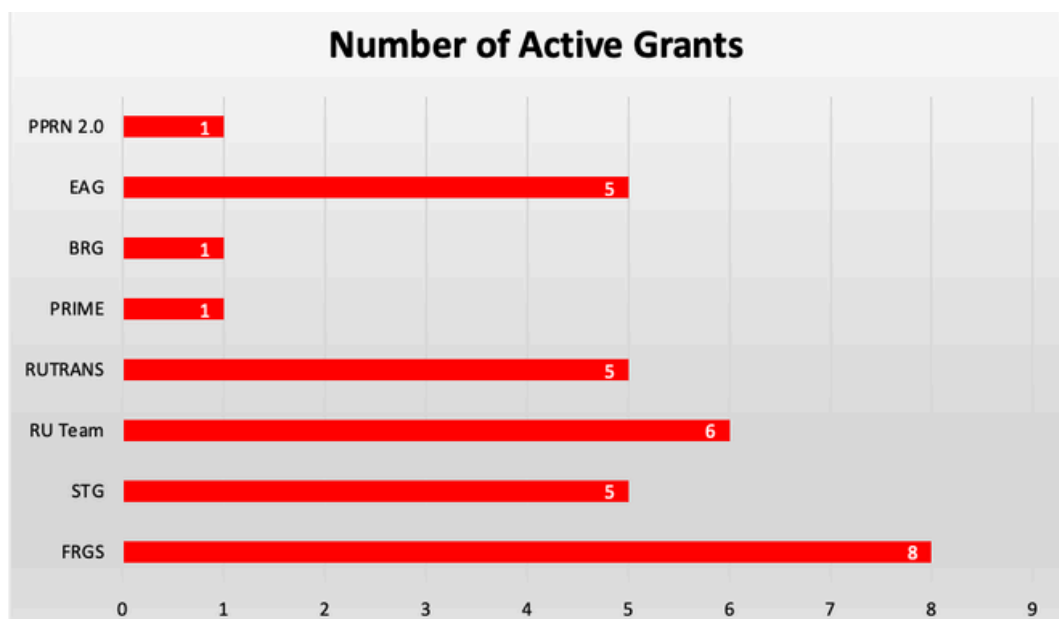
The school is currently in a leading position in research and development, supported by three dedicated research clusters: Enabling Technologies & Infrastructure (ETIC), Data to Knowledge (D2K), and Service Computing (SC). These clusters facilitate collaboration among academics, particularly in Fundamental, multidisciplinary and transdisciplinary research.

Research and innovation at the School of Computer Sciences continued to strengthen in 2025, with a total of 32 active research grants. These grants are funded by various sources, including USM, the Ministry of Higher Education, industry partners, and external agencies (both local and international). USM provides grants such as the Research University Team (RU Team) Transdisciplinary RU (RUTRANS), Short-Term Grant, Bridging Grant and Product Innovation and Industry Matching Engagement (PRIME). The Ministry of Higher Education supports research through schemes like the Fundamental Research Grant Scheme (FRGS), Long-Term Research Grant Scheme (LRGS), and Transdisciplinary Research Grant Scheme (TRGS). Meanwhile, industry and external agencies contribute through programs such as FTECH TRAVEL SDN. BHD, SEAMEO SEPS, Bangkok, Thailand and Public-Private Research Network (PPRN) 2.0.



STATISTICAL SUMMARY OF THE NUMBER OF ACTIVE GRANTS

Grant Type	Number of Active Grants
Fundamental Research Grant Scheme (FRGS)	8
Short-Term Grant (STG)	5
Research University Team (RU Team)	6
Transdisciplinary Research University Grant Scheme (RUTRANS)	5
Product Innovation and Industry Matching Engagement (PRIME)	1
Bridging Research Grant (BRG)	1
External Agency Grants (EAG)	5
Public-Private Research Network (PPRN) 2.0	1
Total	32



FRGS

No	Project Title	Project Leader	Period	Amount (RM)
1	A HUMAN-IN-THE-LOOP REINFORCEMENT LEARNING ALGORITHM FOR PREDICTING THE BLOOD GLUCOSE LEVEL IN DIABETES MANAGEMENT	PROFESOR MADYA DR.CHONG YUNG WEY	1 October 2023 – 30 September 2026	RM111,000.00
2	MACHINE LEARNING MODEL OF FINE-GRAINED COMPONENTS IDENTIFICATION FOR PRIVACY POLICY COMPLIANCE UNDER MALAYSIAN PERSONAL DATA PROTECTION ACT 2010 (PDPA)	DR. ZARUL FITRI BIN ZAABA	1 October 2023 – 30 September 2026	RM105,600.00
3	OPTIMAL HATE SPEECH META-CLASSIFICATION FOR CYBER-HATE DETECTION BASED ON ENHANCED MACHINE LEARNING HETEROGENEOUS STACKED ENSEMBLES	PROF. MADYA DR. WAN MOHD NAZMEE BIN WAN ZAINON	1 October 2023 – 30 September 2026	RM118,050.00
4	FORMULATING SYSTEMIC LUPUS ERYTHEMATOSUS (SLE) CORRELATION WITH ASSOCIATED FEATURES USING HYBRID MACHINE LEARNING CLASSIFICATION MODEL FOR NATIONAL	DR. NUR HANA BINTI SAMSUDIN	1 October 2023 – 30 September 2026	RM146,100.00
5	FORMULATION OF SELF-ATTENTION AND BOUNDARY-AWARE MODULES FOR DEEP LEARNING MEDICAL IMAGE SEGMENTATION	DR. MOHD HALIM BIN MOHD NOOR	1 October 2023 – 30 September 2026	RM147,000.00

6	A DEEP LEARNING HYBRID ALGORITHM TO PREDICT MUTATIONS AND HIGH-RISK ASSESSMENT IN ZOONOTIC RNA VIRUS	DR.HAZRINA BINTI YUSOF HAMDANI	1 August 2024 – 31 July 2027	RM117,500.00
7	ELUCIDATION OF BRAIN TUMOR DETECTION IN CEREBROVASCULAR SEGMENTATION OF MAGNETIC RESONANCE ANGIOGRAPHY (MRA) IMAGES BY CHANNEL ATTENTION WITH SPATIAL KERNEL FILTERING MODEL	DR.NUR INTAN RAIHANA BINTI RUHAIYEM	1 August 2024 – 31 July 2027	RM115,580.00
8	FORMULATION OF SPINE CURVE BENDING TECHNIQUES TO IMPROVE AI-DRIVEN MULTI-CAMERA MARKERLESS MOTION CAPTURE	PROFESOR MADYA DR AHMAD SUFRIL AZLAN BIN MOHAMED	1 August 2024 – 31 July 2027	RM121,014.00

STG

No	Project Title	Project Leader	Period	Amount (RM)
1	MODELLING IMMERSIVE EDUCATIONAL LEARNING VIA VIRTUAL REALITY GAME	DR. SITI HAZYANTI BINTI MOHD HASHIM	1 April 2024 – 31 March /2026	RM32,399.00
2	DEVELOPING IOT-BASED IRRIGATION OPTIMIZATION SYSTEM FOR SUSTAINABLE AGRICULTURE	DR.MOHD ADIB BIN OMAR	1 Februari 2024 – 31 Januari 2026	RM34,810.00
3	A TRUST-BASED FRAMEWORK FOR FINANCIAL SCAM DETECTION ON SOCIAL MEDIA USING SUBJECTIVE LOGIC	TS. DR.RAMONA BINTI RAMLI	1 October 2025- 30 September 2027	RM42,000.00
4	ENHANCED METAVERSE NETWORK ARCHITECTURE FOR SMART AGRICULTURE	DR VAITHEGY A/P DORAISAMY	1 December 2024 -30 November 2026	RM38,624.00
5	ENHANCED DISTRIBUTED AND EFFICIENT SLOT ASSIGNMENT ALIGNMENT (DESAA) ALGORITHM FOR INTERNET OF THINGS	DR.MOHAMMAD ALI SARVGHADI	1 November 2024 -31 October 2026	RM39,810.00

RU TEAM

No	Project Title	Project Leader	Period	Amount (RM)
1	AI-BASED MULTIMODAL BEHAVIOURAL BIOMETRICS AUTHENTICATION AND REAL-TIME TRUST SCORING FOR FRAUD PREVENTION IN MOBILE DIGITAL BANKING	TS. DR LIM CHIA YEAN	1 November 2025 – 31 October 2028	RM90,000.00
2	DEVELOPMENT OF AUTOMATED MULTIMODAL IMAGE ANALYSIS FOR RAPID WEATHERING ASSESSMENT USING AI	DR.MOHD NADHIR BIN AB WAHAB	1 November 2025 – 31 Oktober 2027	RM72,150.00
3	MULTIMODAL DEEP LEARNING FOR AGE-SENSITIVE LATE-LIFE DEPRESSION AND ANXIETY HEALTH MONITORING PLATFORM: COMBINING FACIAL EXPRESSION AND TEXTUAL DATA FOR EARLY DETECTION AND MANAGEMENT	DR.NOR ATHIYAH BINTI ABDULLAH	1 November 2025 – 31 Oktober 2027	RM72,150.00
4	MODELLING MULTIMODAL CUES FOR BRIBERY TENDENCIES	SYAHEERAH BINTI LEBAI LUTFI, PROFESOR MADYA DR.	1 May 2024 – 30 April 2027	RM79,690.00
5	OBJECT & PERSON DETECTION FOR AUTOMATED DRONE SURVEILLANCE	PROFESOR MADYA DR AHMAD SUFRIL AZLAN BIN MOHAMED	1 April 2024 – 31 March 2026	RM85,000.00
6	AUTOMATED DRONE SURVEILLANCE FOR PORT MONITORING & INSPECTIONS	PROFESOR MADYA DR AHMAD SUFRIL AZLAN BIN MOHAMED	1 April 2024 – 31 March 2026	RM165,000.00

RU TRANS

No	Project Title	Project Leader	Period	Amount (RM)
1	DEVELOPMENT OF A LIGHTWEIGHT DEEP LEARNING-BASED CLINICAL DECISION SUPPORT TOOL FOR EARLY RISK PREDICTION AND MORTALITY STRATIFICATION IN MALAYSIAN ICU PATIENTS WITH SEPSIS	TS. DR.ANUSHA A/P ACHUTHAN	1 November 2025 – 31 October 2028	RM130,000.00
2	AN IMPROVED DEEP LEARNING ARCHITECTURE FOR BREAST CANCER SEGMENTATION	PROFESOR MADYA DR.MOHD HALIM BIN MOHD NOOR	December 2024 – 30 November 2027	RM109,500.00
3	FULLY AUTOMATED SEGMENTATION OF TUMOR REGIONS ON DIFFERENT MRI IMAGE-WEIGHTED USING 2D CONVOLUTIONAL NEURAL NETWORKS IN OSTEOSARCOMA	TS. DR.ANUSHA A/P ACHUTHAN	1 March 2024 – 28 February 2027	RM116,306.00

PRIME

No	Project Title	Project Leader	Period	Amount (RM)
1	AUTOMATIC QUATATION GENERATOR BASED ON DYNAMIC PARAMETER SETTINGS USING MODIFIED ARTIFICIAL INTELLIGENCE	DR. MOHD NADHIR BIN AB WAHAB	September 2024 – 31Auguts 2025	RM50,000.00

BRG

No	Project Title	Project Leader	Period	Amount (RM)
1	A DEEP LEARNING-DRIVEN ADAPTIVE RUN SUM CONTROL SCHEME WITH VARIABLE SAMPLE SIZE AND SAMPLING INTERVAL (VSSI) PARAMETERS FOR ROBUST JOINT MONITORING OF CORRELATED INDUSTRIAL PROCESSES	PROFESOR MADYA TS. DR.CHEW XINYING	1 September 2025-31 August 2026	RM23,400.00

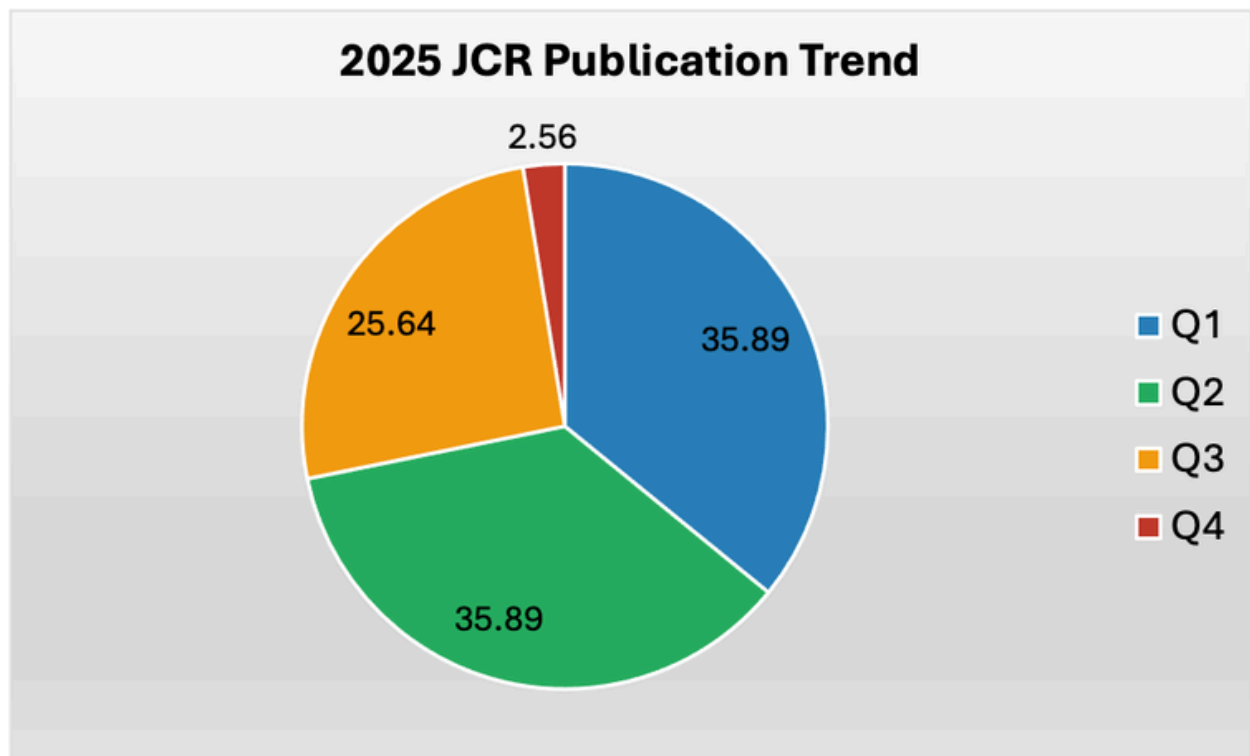
PPRN 2.0

No	Project Title	Project Leader	Period	Amount (RM)
1	Data Analytics Driven for Intelligent Sales and Optimal Inventory Management System	DR. MOHD NADHIR BIN AB WAHAB	21 October 2025 – 20 October 2026	RM54,000.00

EAG

No	Project Title	Project Leader	Period	Amount (RM)
1	AUTOMATIC QUATATION GENERATOR BASED ON DYNAMIC PARAMETER SETTINGS USING MODIFIED ARTIFICIAL INTELLIGENCE	DR. MOHD NADHIR BIN AB WAHAB	1 September 2024 – 31August 2025	RM50,000.00 FTECH TRAVEL SDN. BHD.
2	BADMINTON WORLD FEDERATION	PROF PUTRA SUMARI	Nov 2026	USD6500.00
3	DEVELOPMENT OF AI BASED MULTIFACE DETECTION AND FACE RECOGNITION ALGORITHM FOR REAL TIME CCTV SURVEILLANCE	DR. MOHD NADHIR BIN AB WAHAB	1 August 2025 – 31 July 2026	RM167,269.00
4	IMPLEMENTATION OF A CAPACITY BUILDING PROGRAM IN TIMOR-LESTE FOR COMMUNITY WATER RESOURCE MONITORING USING IoT	PROFESOR MADYA DR.CHONG YUNG WEY	18 June 2025 – 31 December 2025	RM19,013.07
5	DIMENSIONALITY REDUCTION FOR SMART MANUFACTURING	PROFESOR MADYA TS. DR.CHEW XINYING	1 April 2022 – 31 March 2026	RM325,340.00
6	APPLYING THE SUFFICIENCY ECONOMY PHILOSOPHY TO POST-STROKE RECOVERY: A COMMUNITY-CENTRED SUSTAINABLE REHABILITATION MODEL	DR FADRATUL HAFINAZ HASSAN		USD 4,000 SEAMEO SEPS, Bangkok, Thailand

RESEARCH PUBLICATION



No	Q1 Publication
1	Abdulkhakeem Mansour Alhasbary, A., Hashimah Ahamed Hassain Malim, N., & Zuraidah Mohamad Zobir, S. (2025). Exploring natural products potential: A similarity-based target prediction tool for natural products. <i>Computers in Biology and Medicine</i>, 184, 109351. https://doi.org/10.1016/j.compbiomed.2024.109351
2	Ahmad, J., & Nadhir Ab Wahab, M. (2025). Enhancing the safety and smoothness of path planning through an integration of Dijkstra's algorithm and piecewise cubic Bezier optimization. <i>Expert Systems with Applications</i>, 289, 128315. https://doi.org/10.1016/j.eswa.2025.128315
3	Ahmad, J., Wahab, M. N. A., Ramli, A., Misro, M. Y., Ezza, W. Z., & Hasan, W. Z. W. (2026). Enhancing performance of global path planning for mobile robot through Alpha-Beta Guided Particle Swarm Optimization (Abgpso) algorithm. <i>Measurement</i>, 257, 118633. https://doi.org/10.1016/j.measurement.2025.118633
4	Alnoor, A., Abbas, S., Sadaa, A. M., Chew, X., & Bayram, G. E. (2025). Navigating the power of blockchain strategy: Analysis of technology-organization-environment (Toe) framework and innovation resistance theory using PLS-SEM and ANN insights. <i>Technological Forecasting and Social Change</i>, 214, 124044. https://doi.org/10.1016/j.techfore.2025.124044
5	Alnoor, A., Atiyah, A. G., Alhasnawi, M. Y., Muhsen, Y. R., Abbas, S., & Chew, X. (2025). Revealing the determinants of workplace incivility from the perspective of affective events theory using PLS-SEM and MCDM approach. <i>Current Psychology</i>, 44(23), 17974–17991. https://doi.org/10.1007/s12144-025-08316-7
6	Altabrawee, H., & Mohd Noor, M. H. (2025). Stclr: Sparse temporal contrastive learning for video representation. <i>Neurocomputing</i>, 630, 129694. https://doi.org/10.1016/j.neucom.2025.129694
7	Butt, U. M., Letchmunan, S., Ali, M., & Sherazi, H. H. R. (2025). Start: A spatiotemporal autoregressive transformer for enhancing crime prediction accuracy. <i>IEEE Transactions on Computational Social Systems</i>, 12(6), 4650–4664. https://doi.org/10.1109/TCSS.2025.3550196
8	Chennam, K. K., V, U. M., Aluvalu, R., Chinthaginjala, R., Ab Wahab, M. N., Zhao, X., & Tolba, A. (2025). Load balancing for cloud computing using optimized cluster based federated learning. <i>Scientific Reports</i>, 15(1), 41328. https://doi.org/10.1038/s41598-025-25220-z

No	Q1 Publication
9	Chong, Y.-W., Yau, K.-L. A., Ibrahim, N. F., Rahim, S. K. A., Keoh, S. L., & Basuki, A. (2025). Federated learning for intelligent transportation systems: Use cases, open challenges, and opportunities. IEEE Intelligent Transportation Systems Magazine, 17(3), 18–32. https://doi.org/10.1109/MITS.2024.3451479
10	Fu, P., Ruhaiyem, N. I. R., & Wang, J. (2025). Reweighting balanced representation learning for long tailed image recognition in multiple domains. Scientific Reports, 15(1), 23948. https://doi.org/10.1038/s41598-025-03459-w
11	He, C., Tan, T.-P., Xue, S., & Tan, Y. (2025). Simulating judicial trial logic: Dual residual cross-attention learning for predicting legal judgment in long documents. Expert Systems with Applications, 261, 125462. https://doi.org/10.1016/j.eswa.2024.125462
12	He, Y., & Yusof, U. K. (2025). Robust joint graph learning for multi-view clustering. IEEE Transactions on Big Data, 11(2), 722–734. https://doi.org/10.1109/TBDDATA.2024.3426277
13	Li, J., Tang, F., Ma, L., Zhu, C., Gong, Z., Ruhaiyem, N. I. R., & Li, J. (2025). Point-sct: A multiscale spatial convolution-swin transformer network for point cloud ground filtering in complex mountainous terrains. IEEE Transactions on Geoscience and Remote Sensing, 63, 1–18. https://doi.org/10.1109/TGRS.2025.3573023
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19	Ma, Y., Singh, D., Tan, S. Y., Lam, M. C., Laili, A. G. N., Guan, H., Lei, F., & Mohamed, A. S. A. (2025). Is metaverse technology ready to welcome online banking users? <i>International Journal of Advanced Computer Science and Applications</i>, 16(9). https://doi.org/10.14569/IJACSA.2025.0160923

No	Q3 Publication
21	Phaik, C. S., Tan, T.-P., Huah, Y. C., & Keng, H. G. (2025). Stock trend prediction using multi-attention network on domain-specific and domain-general features in news headline. <i>Pertanika Journal of Science and Technology</i> , 33(2). https://doi.org/10.47836/pjst.33.2.13
22	Pramanik, S., & Husin, M. H. B. (2025). The retrieval-augmented pedagogical assistant (Rapa): A methodology for enhancing critical thinking and equity in ai-augmented education. <i>International Journal of Advanced Computer Science and Applications</i> , 16(12). https://doi.org/10.14569/IJACSA.2025.0161226
23	Rabiu, S., Huah Yong, C., & Syed Mohamad, S. M. (2025). Scalability and cost optimization in load-balanced microservice scheduling system. <i>IJUM Engineering Journal</i> , 26(2), 63–80. https://doi.org/10.31436/iiumej.v26i2.3089
24	Saeed, Z. R., Ibrahim, N. F., Zainol, Z. B., & Mohammed, K. K. (2025). A hybrid improved irso–cnn algorithm for accurate recognition of dynamic gestures in malaysian sign language. <i>Journal of Electrical and Computer Engineering</i> , 2025(1), 6430675. https://doi.org/10.1155/jece/6430675
25	Al Aqsa, F. A., Ab Malik, A., Hamzah, I. H., & A.M, Asmawi. (2025). Enhancing fruit quality assessment: A real-time grading system based on yolo and image processing. <i>Jurnal Kejuruteraan</i> , 37(7), 3421–3430. https://doi.org/10.17576/jkukm-2025-37(7)-23
26	Yukun, Z., & Ab Malik, A. (2025). Improvement on road management system: Artificial intelligence application based on plate number detection system using yolo algorithm. <i>Jurnal Kejuruteraan</i> , 37(5), 2103–2109. https://doi.org/10.17576/jkukm-2025-37(5)-06
27	Wen, H. S., Chia, Y. L., & Sau, L. A. (2025). Random forest model for software build time prediction on ci/cd pipeline. <i>Pertanika Journal of Science and Technology</i> , 33(2). https://doi.org/10.47836/pjst.33.2.22
28	Wu, F., Lim, C. Y., Ang, S. L., & Zheng, J. (2025). Improved yolov8 model for enhanced small-sized breast mass detection on magnetic resonance imaging. <i>International Journal of Advanced Computer Science and Applications</i> , 16(7). https://doi.org/10.14569/IJACSA.2025.0160714
29	Zhang, Y., & Aman, J. (2025). Targeted injection attack toward the semantic layer of large language models. <i>Frontiers in Computer Science</i> , 7, 1683495. https://doi.org/10.3389/fcomp.2025.1683495

No	Q4 Publication
1	Almadhoun, M. D., & Malim, N. H. A. H. (2025). Effects of using multi-category web pages on rank estimation of Google search engine results page. Web Intelligence, 23(1), 39–55. https://doi.org/10.3233/WEB-230239
2	Sahib, T. M., Mohd-Mokhtar, R., & Mohd-Kassim, A. (2025). Ant colony optimization algorithm with sequential variable neighbourhood search change step in the waste collection system. Jurnal Teknologi (Sciences & Engineering), 87(4), 651–662. https://doi.org/10.11113/jurnalteknologi.v87.19726
3	Kitt, T. W., Mohd Hashim, S. H., Osman, M. A., & Hussin, M. H. (2025). Corrosion analysis tool using pencil graphite electrode sensor with machine learning algorithm. International Journal of Integrated Engineering, 17(2). https://doi.org/10.30880/ijie.2025.17.02.007

No	WoS and Scopus indexed Journal Articles
1	Abu Owida, H., Alazaidah, R., Ban--Bakr, A., Khafajeh, H., Chan, H. Y., Mizher, M., & Katrawi, A. (2025). Integrative deep learning for enhanced acute lymphoblastic leukemia detection: A comprehensive study on the all-idb dataset. Engineering, Technology & Applied Science Research, 15(2), 20776–20781. https://doi.org/10.48084/etasr.9745
2	Alarqan, M., Belaton, B., Almomani, A., Alauthman, M., Al-Betar, M. A., & Arya, V. (2025). Information theory-based ddos attack detection in cloud computing: A systematic survey of approaches, challenges, and future directions. International Journal of Cloud Applications and Computing, 15(1), 1–38. https://doi.org/10.4018/IJCAC.369817
3	Ali, T. E., Chong, Y.-W., Manickam, S., Yusoff, M. N., Yau, K.-L. A., & Zoltan, A. D. (2025). A stacking ensemble model with enhanced feature selection for distributed denial-of-service detection in software-defined networks. Engineering, Technology & Applied Science Research, 15(1), 19232–19245. https://doi.org/10.48084/etasr.8976

No	None Indexed Journal Articles
1	Rahman, A., Zhu, H., Khurizan, N. S. N., & Noor, M. H. M. (2024). Optimising layout of a left-turn bypass intersection under mixed traffic flow using simulation: A case study in Pulau Pinang, Malaysia. <i>Journal of Advanced Research in Applied Sciences and Engineering Technology</i> , 46(1), 50-62.
2	Salman, W. A. H., & Yong, C. H. (2025). An efficient distributed intrusion detection system that combines traditional machine learning techniques with advanced deep learning. <i>Mesopotamian Journal of CyberSecurity</i> , 5(2), 721-734.
3	Abd Zaid, M. M., Mohammed, A. A., & Sumari, P. (2025). Remote sensing image classification using convolutional neural network (Cnn) and transfer learning techniques. <i>Journal of Computer Science</i> , 21(3), 635–645. https://doi.org/10.3844/jcssp.2025.635.645
4	Alyasiri, O. M., & Cheah, Y.-N. (2025). Multi-class text classification using machine learning techniques. <i>Engineering, Technology & Applied Science Research</i> , 15(3), 22598–22604. https://doi.org/10.48084/etasr.9994
5	Ang, Y., Shafri, H. Z. M., Lee, Y. P., Bakar, S. A., Abidin, H., Junaidi, M. U. U. M., Lim, H. S., Abdullah, R., Yusup, Y., Muhammad, S. A., & Teh, S. Y. (2025). Deep learning python-based time-series model for oil palm yield prediction. <i>Applications of Modelling and Simulation</i> , 9, 315–323. https://www.ojs.arqiipubl.com/index.php/AMS_Journal/article/view/945
6	Ashour, L. S., Mohammed, A. A., Zaid, M. M. A., Sumari, P., Al-Nussairi, A. K. J., Al-Shammari, S. A., & Abdulmunem, S. T. (2025). Non-overlapping patch-based pre-trained cnn for breast cancer classification. <i>Iraqi Journal for Computer Science and Mathematics</i> , 6(2). https://doi.org/10.52866/2788-7421.1271
7	Doraisamy, V., Mohd Hashim, S. H., & Rasalingam, R. R. (2025). A comprehensive review of metaverse: Network architectures, emerging technologies, and future research opportunities. <i>PaperASIA</i> , 41(1b), 387–399. https://doi.org/10.59953/paperasia.v41i1b.400
8	Mubarak, M., Abdullah, R., Omar, Mohd. A. Hj., Ahmed, A. A., Omar, N. A., & Mostafa, S. A. (2025). Analysis of objective functions for ribonucleic acid multiple sequence alignment fusion based on harmony search algorithm. <i>Fusion: Practice and Applications</i> , 17(2), 1–10. https://doi.org/10.54216/FPA.170201
9	Hing Ratana, Sharifah Mashita Syed-Mohamad, & Chan Huah Yong. (2024). Software model checking distributed applications: A hybrid approach. <i>Journal of Advanced Research in Applied Sciences and Engineering Technology</i> , 45(2), 152–167. https://doi.org/10.37934/araset.45.2.152167

No	None Indexed Journal Articles
10	Investigation of data balancing techniques for diabetes prediction. (2025). International Journal of Intelligent Engineering and Systems, 18(3), 598–611. https://doi.org/10.22266/ijies2025.0430.41
11	M. Abd Zaid, M., Abed Mohammed, A., & Sumari, P. (2025). Classification of road features using convolutional neural network (Cnn) and transfer learning. International Journal of Computing and Digital Systems, 17(1), 1–12. https://doi.org/10.12785/ijcds/1571031764
12	Maigari, A., Zainol, Z., & Xinying, C. (2024). Multi-modal stacked ensemble model for breast cancer prognosis prediction. Statistics, Optimization & Information Computing, 13(3), 1013–1034. https://doi.org/10.19139/soic-2310-5070-2100
13	Mishkhal, I., Abdullah, N., Saleh, H. H., Ruhaiyem, N. I. R., & Hassan, F. H. (2025). Facial swap detection based on deep learning: Comprehensive analysis and evaluation. Iraqi Journal for Computer Science and Mathematics, 6(1). https://doi.org/10.52866/2788-7421.1229
14	Noor, A. A., & Ruhaiyem, N. I. R. (2025). Hybrid approach for enhancing underwater image based on deep learning techniques. Ingénierie Des Systèmes d'Information, 30(3), 745–751. https://doi.org/10.18280/isi.300318
15	Obeidat, J., Yusoff, M. N., & Doraisamy, V. (2025). Enhancing metaverse classrooms performance and security: A comprehensive review of cloudlet, edge computing, and graph neural networks. PaperASIA, 41(2b), 211–224. https://doi.org/10.59953/paperasia.v41i2b.431
16	Ratana, H. (2025). Software model checking for distributed applications using hybridization of centralization and cache approaches. Asia-Pacific Journal of Information Technology and Multimedia, 14(1), 351–366. https://doi.org/10.17576/apjitm-2025-1401-20
17	Salman, W. A. H., & Yong, C. H. (2025). Overview of the ciciot2023 dataset for internet of things intrusion detection systems. Mesopotamian Journal of Big Data, 2025, 50–60. https://doi.org/10.58496/MJBD/2025/004
18	Shehu Ali, A., Zaaba, Z. F., Mahinderjit Singh, M., Anuar, N. B., & M. Shariff, M. R. (2025). Creating and analysing privacy policies of Malaysia e-commerce using personal data protection act. Bulletin of Electrical Engineering and Informatics, 14(3), 2404–2412. https://doi.org/10.11591/eei.v14i3.8991

No	None Indexed Journal Articles
20	Yuhao Ang, Helmi Zulhaidi Mohd Shafri, Yang Ping Lee, Shahrul Azman Bakar, Haryati Abidin, Shaiful Jahari Hashim, Mohd Na'aim Samad, Nik Norasma Che'ya, Mohd Roshdi Hassan, Hwee San Lim, Rosni Abdullah, Yusri Yusup, Syahidah Akmal Muhammad, Teh Sin Yin, & Mohamed Barakat A. Gibril. (2024). Block-scale oil palm yield prediction using machine learning approaches based on landsat and modis satellite data. <i>Journal of Advanced Research in Applied Sciences and Engineering Technology</i>, 45(1), 90–107. https://doi.org/10.37934/araset.45.1.90107
21	Sumari, P., Zaid, M. M. A., & Nussairi, A. K. J. (2025). Papaya fruit and leaf ringspot virus detection using convolutional neural network (CNN) and transfer learning. <i>Int. J. Environ. Sci</i>, 11, 449-454.
22	Abu-Shareha, A. A., Mosleh Abualhaj, Abdelrahman H. Hussein, Amal Amer, Anusha Achuthan, & Alfian Abdul Halin. (2025). Diabetes prediction using hybrid supervised and unsupervised techniques based on pima dataset. <i>Journal of Artificial Intelligence and Technology</i>. https://doi.org/10.37965/jait.2025.0899
23	Al-Ahliyya Amman University, Abu-Shareha, A. A., Abualhaj, M. M., Al-Ahliyya Amman University, Alsharaiah, M. A., Al-Ahliyya Amman University, Al-Saaidah, A., Al-Ahliyya Amman University, Achuthan, A., & Universiti Sains Malaysia. (2025). Diabetes prediction through classification using pima dataset: Survey and evaluation. <i>Journal of Soft Computing and Data Mining</i>, 6(1). https://doi.org/10.30880/jscdm.2025.06.01.001
24	Alzami, F., Naufal, M., Basuki, R. S., Winarno, S., Azies, H. A., Lutfi, S. L., & Brilianto, R. M. (2025). Bayesian-optimized clahe for enhanced drowsiness detection in low-light conditions using time-distributed mobilenetv2-gru architecture. <i>Statistics, Optimization & Information Computing</i>, 15(1), 274–294. https://doi.org/10.19139/soic-2310-5070-3024
25	Baqraf, Y., Keikhosrokiani, P., Cheah, Y.-N., Alomarji, A., & Baqraf, F. (2025). Artificial intelligence for automating the establishment of an Arabic benchmark dataset for enhancing health information quality assessment. <i>Discover Artificial Intelligence</i>, 5(1), 411. https://doi.org/10.1007/s44163-025-00679-x
26	Chan, J. H., Osman, M. A., & Iskandar, Y. H. P. (2025). Sentiment analysis of social media on COVID-19 vaccination. <i>International Journal of Medical Engineering and Informatics</i>, 17(6), 569. https://doi.org/10.1504/IJMEI.2025.10073317
27	Alnaqeeb, R. T., Abdullah, N. A., & Abdullah, N. L. (2025). Students' Behavioral Intentions Toward Teachers' Use of Augmented Reality in Higher Education: Insights from the UAE. <i>International Journal of Information and Education Technology</i>, 15(9). https://doi.org/10.18178/ijiet.2025.15.9.2388

No	None Indexed Journal Articles
28	Alnaqeeb, R. T., Abdullah, N. A., & Abdullah, N. L. (2025). Towards Gamified Acceptance in eLearning Systems: Students' Perspective at Iraqi Higher Education Institutions. <i>International Journal of Information and Education Technology</i> , 15(10). https://doi.org/10.18178/ijiet.2025.15.10.2406
29	Doraisamy, V., Ab Rahman Mutoh, N., Rasalingam, R. R., & Ab Malik, A. (2025). Cybersecurity challenges and solutions in the metaverse: A critical review of threats, risks, and technologies. <i>PaperASIA</i> , 41(4b), 267–276. https://doi.org/10.59953/paperasia.v41i4b.604
30	Lu, Q., Wah Khaw, K., Chew, X., & Chung Yeong And Wei Chien Ng, W. (2025). Towards carbon neutrality: A novel stirpat- xgboost-shap framework for provincial energy transition prediction in china. <i>ASM Science Journal</i> , 20(2), 1–12. https://doi.org/10.32802/asmscj.2025.0171
31	Mingying, H., Ab Malik, A., Alias, N., & Hamzah, I. H. B. (2025). Investigating the performance of RNN model to forecast the electricity power consumption in Guangzhou China. <i>International Journal of Reconfigurable and Embedded Systems (IJRES)</i> , 14(2), 497. https://doi.org/10.11591/ijres.v14.i2.pp497-506
32	Muhsen, Y., Al-Hchaimi, A., Alnoor, A., Chew, X., Khaw, K., & Bozanic, D. (2025). Towards smart system architectures: A fuzzy MCDM-based evaluation of application mapping strategies. <i>Yugoslav Journal of Operations Research</i> , (00), 32–32. https://doi.org/10.2298/YJOR250515032R
33	Noor, A. A., & Raihana Ruhaiyem, N. I. (2025). Underwater image enhancement using multiple processing techniques based on DCP, CLAHE, CNNs, and U-Net. <i>Heritage and Sustainable Development</i> , 7(2), 1017–1030. https://doi.org/10.37868/hsd.v7i2.1596
34	Nordin, N., Noor, M. H. M., Zainol, Z., Fong, C. L., & Buji, R. I. (2025). Explainable artificial intelligence for multiclass prediction model of suicide attempt. <i>Bulletin of Electrical Engineering and Informatics</i> , 14(5), 3756–3764. https://doi.org/10.11591/eei.v14i5.9837
35	Alnaqeeb, R. T., Abdullah, N. A., & Abdullah, N. L. (2025). Students' Behavioral Intentions Toward Teachers' Use of Augmented Reality in Higher Education: Insights from the UAE. <i>International Journal of Information and Education Technology</i> , 15(9). https://doi.org/10.18178/ijiet.2025.15.9.2388

INDUSTRY AND COMMUNITY ENGAGEMENT



DATE: 23 JAN 2025 (THURSDAY)

JANUARY 2025

PAYNET & NACSA INDUSTRIAL VISIT 2025

The visit brought together a total of 31 participants, including 30 undergraduate students and one accompanying lecturer. They visited two prominent institutions: Payment Network Malaysia (PayNet) and the National Cyber Security Agency (NACSA).



DATE: 05 MAY 2025 (MONDAY)

MAY 2025

TRIZ & LEAN SIX SIGMA INDUSTRY CLASSROOM

A guest lecture was conducted on 5th May 2025 (Monday) for the class CDT543 Systematic and Lean Innovation Management, a course for the Master of Science in Digital Transformation. There are two objectives of this guest lecture. The first objective is to provide insights into TRIZ problem-solving best practices in the industry and an overview of TRIZ Level 1 certification for students. The second objective is to introduce the industry's lean approaches and techniques to the students. The session was attended by all students who enrolled in the CDT543 course. The speakers are Professor Dr. Yeap Gik Hong, TRIZ Level 3 Trainer, and Associate Professor Dr. Sim Hock Kheng, TRIZ Level 3 Trainer, Lean Six Sigma Practitioner.



DATE: 05 MAY 2025 (MONDAY)

MAY 2025

HOTAYI INDUSTRY VISIT

Academic team visited Hotayi to discuss about academic and research collaboration. An MOU has been exchanged during the visit. An R&D project for a procedure-report-assisted chatbot is initiated, involving lecturers, postgraduate and undergraduate students.



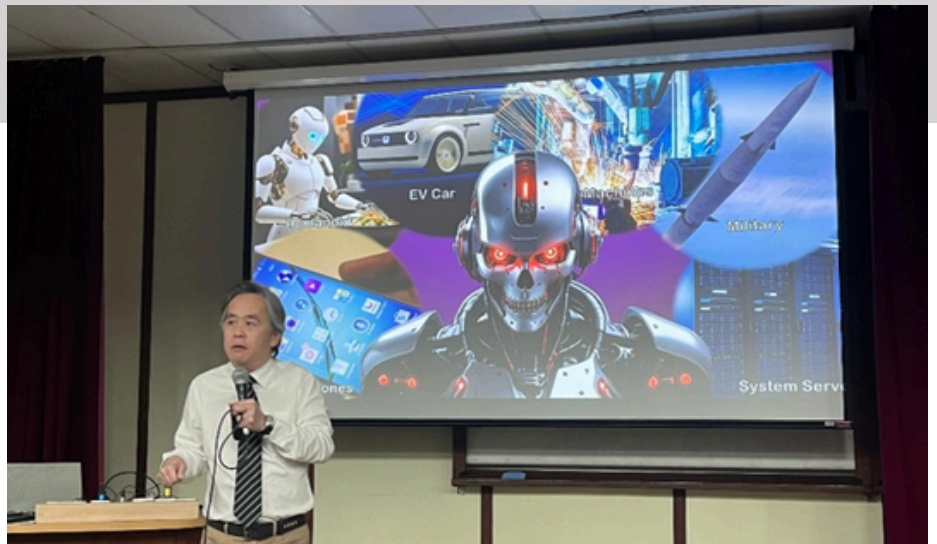
DATE: 02 JULY 2025 (WEDNESDAY)

JULY 2025

INDUSTRY CLASSROOM FOR REAL-TIME SOFTWARE ENGINEERING

A guest lecture was conducted on 2nd July 2025 (Wednesday) for the class CSE443 Real-time Software Engineering, a course for the Bachelor of Computer Science. The purpose of the guest lecture is to expose students to real-time software engineering applications in industry and the latest technologies. Among the technologies shared is the company's self-built genAi, which is linked to several different industrial applications, including a humanoid robot.

A total of 94 students attended the industry sharing session. During the sharing session, Mr. Gary, , co-founder and director of OrionplexSdn. Bhd. and Oriontrain Sdn. Bhd. shared about the latest AI definition, AI trends and technologies, as well as the latest genAi demonstration videos. Students also actively asked questions about AI techniques and industry views.



CS ACTIVITIES



DATE: 09 JAN 2025 (THURSDAY)

JANUARY 2025

DELL HACK2HIRE NATIONAL COMPETITION



DATE: 09 JAN 2025 (THURSDAY)

JANUARY 2025

DELL HACK2HIRE NATIONAL COMPETITION



DATE: 09 JAN 2025 (THURSDAY)

JANUARY 2025

DELL HACK2HIRE NATIONAL COMPETITION



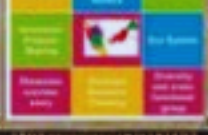
DATE: 10 JAN 2025 (FRIDAY)

TIME: 2:30 - 4:00 PM

VENUE: LECTURE HALL 1, SCHOOL OF SOCIAL SCIENCES,
USM (DK SK1)

JANUARY 2025

ARTIFICIAL INTELLIGENCE: PIONEERING ADVANCES AND TRANSFORMATIVE APPLICATIONS



Northern Region Innovation Forum (NRIIF)

Artificial Intelligence: Pioneering Advances and Transformative Applications

Date: 10 January 2025
Time: 2:30 pm - 5:00 pm
Venue: Lecture Hall 1, School of Social Sciences, USM (DK SK1)
<https://maps.app.goo.gl/Ucpd8hvhHFAISFO28>



Professor Lim Chee Peng

Professor of Computational Intelligence
Department of Computing Technologies
Swinburne University of Technology
Australia

Lim Chee Peng received his Ph.D. degree from the University of Sheffield, UK, in 1997. His research focuses on the design of AI-based models and algorithms as well as their applications to data analytic and decision support problems. He has published over 650 technical papers and received over 10 best paper awards in international conferences. He has also received many prestigious fellowships for global research collaboration, including the Australia-India Senior Visiting Fellowship, Australia-Japan Emerging Research Leaders Exchange Program, UK Commonwealth Fellowship at the University of Cambridge, US Fulbright Fellowship at the University of California, Berkeley and Visiting Scientists Program of the Office of Naval Research Global at both Harvard University and Stanford University, as well as the President's International Fellowship Initiative of the Chinese Academy of Sciences.

Dr. Wong Li Pei

Associate Professor
School of Computer Sciences
Universiti Sains Malaysia
Malaysia

Wong Li Pei is an Associate Professor at the School of Computer Sciences, Universiti Sains Malaysia (USM). Besides playing a role as a lecturer, he is holding an administrative position as Programme Manager (Postgraduate). He earned his bachelor's and master's degrees in computer science from USM and completed his PhD at Nanyang Technological University, Singapore, under a USM scholarship. He has been conducting research on nature-inspired metaheuristics, soft computing, and hyper-heuristics in transportation and manufacturing for over 15 years. He is interested in exploring the symbiotic relationship between optimization and machine learning, including how to leverage quantum computing to advance both fields. He serves on the Technical Committee of the Malaysia Open Science Alliance, collaborating with the Academy of Sciences Malaysia to promote open science initiatives.

Ta Dr Tan Choo Jun

Assistant Professor
Faculty of Information Technology and
Computing
Tunku Abdul Rahman University of Management
and Technology
Penang, Malaysia

Tan Choo Jun received his PhD degree from USM in 2014. Currently, he is an academic at Tunku Abdul Rahman University of Management and Technology (TAR UMT). He has more than 20 years of experience in software design and development, as well as in research and development in AI, including multiple research projects that have been recognised with national and international awards, including the Silver Prize of the Open Source Software (OSS) World Challenge, South Korea. He also has extensive experience in teaching and learning, conducting both online and on-site lectures for tertiary students and serving as a learning advisor for undergraduate and postgraduate students. His research specialises in the design and development of computational intelligence models, particularly evolutionary algorithms and their applications to real-world problems.

DATE: 13 JAN 2025

VENUE: PERPUSTAKAAN UNIVERSITI SAINS MALAYSIA

JANUARY 2025

COMPUTER SCIENCE INDUSTRY CAREER EXPLORATION (CSICX)

“SYNC WITH TOMORROW”



DATE: 15 JAN 2025

VENUE: SCHOOL OF COMPUTER SCIENCES

JANUARY 2025

EXPLORING COLLABORATIVE OPPORTUNITIES IN VIRTUAL REALITY RESEARCH

A visit from Associate Professor Dr. Fazida, Director of the Center for Career, Technopreneurship, and Smart Networking, and Associate Professor Ts Dr. Ismahafezi, Deputy Director of PaKaT,



DATE: 27 JAN 2025

VENUE: SCHOOL OF COMPUTER SCIENCES

JANUARY 2025

CS USM DEAN'S LIST AWARD CEREMONY (SEMESTER 2, 2023/2024)

A total of 270 recipients, including 6 postgraduates and 264 undergraduates, were honoured with the Dean's List Award by the esteemed Dean of the School of Computer Science, Associate Professor Dr Wan Mohd Nazmee Wan Zainon. Notably, the top 10 performers from each academic year (Years 1–4) received additional tokens of recognition, underscoring their outstanding achievements.



PERTANDINGAN INOVASI KECERDASAN BUATAN (AI) ICT- HUAWEI ASIA KE-9

FEBRUARY 2025



Hadiah Pertama dalam Kategori Inovasi di Pertandingan ICT Huawei 2024-2025 Peringkat Asia-Pasifik, yang diadakan dari 25 hingga 27 Februari 2025 di Hotel Pullman Kuala Lumpur.

DATE: 14 MAR 2025 (FRIDAY)

TIME: 10:00 A.M. – 12:00 P.M.

VENUE: AUDITORIUM, SCHOOL OF COMPUTER SCIENCES

MARCH 2025

WELCOMING CEREMONY FOR POSTGRADUATE STUDENTS SEMESTER 2, 2024/2025 (S242)



Date: 14th April 2025 (Monday)
Venue: Meeting Room, PPSKomputer

APRIL 2025

Focus Group Discussion (FGD) for Grant Data Collection of
Kajian Penilaian Prestasi Sistem MyGRANTS dan Cadangan
Penambhaikan Sistem



Date: 26th April 2025 (Saturday)
Time: 9:30 AM - 5:30 PM
Venue: Dewan Kuliah S (DK S)



APRIL 2025

VHACK2025



Date: 13 & 14 May 2025
Venue: Jen Hotel Penang

MAY 2025

WORKSHOP ON CURRICULUM REVIEW OF MASTER'S DEGREE PROGRAMME



Date: 14 June 2025

Venue: SCL1 & SCL2, Level 2, School Of Computer Sciences

JUNE 2025



The poster features a dark blue background with a light blue brushstroke effect. At the top left are the logos for UTM (Universiti Teknologi Malaysia) and APEX. The main title 'Join Us!!' is in large, white, glowing letters. Below it are three circular images: a hand holding a 'WARNING CYBER ATTACK' sign, a person in a hoodie with a mask, and a person sitting at a desk. The event title 'DIGITAL FORENSIC & CYBER CRIME AWARENESS BOOTHS' is in bold white letters. Below this, it says 'Fun Activities | Knowledge Sharing | Hands-On Demos' and 'First 50 participants get a FREE gift!'. A list of activities is shown in a light blue brushstroke box: Digital Forensics, Malaysia Cyber Law, Cyber Crime Awareness, CyberCrime Reporting Platforms, Mobile Device Forensics, and 'and many MORE!!'. At the bottom, the date, time, venue, and contact information are listed.

Join Us!!

DIGITAL FORENSIC & CYBER CRIME AWARENESS BOOTHS

Fun Activities | Knowledge Sharing | Hands-On Demos
First 50 participants get a FREE gift!

Explore 9 Interactive Booths!

- Digital Forensics
- Malaysia Cyber Law
- Cyber Crime Awareness
- CyberCrime Reporting Platforms
- Mobile Device Forensics
- and many MORE!!

Date: 14th June 2025
Time: 10:00 AM – 1:00 PM
Venue: SCL1 & SCL2, Level 2
Contact: 014-9447359
School Of Computer Science

DIGITAL FORENSIC & CYBER CRIME AWARENESS BOOTHS

Date: 25 June 2025

Venue: Meeting Room, PPSKomputer

JUNE 2025

MDEC VISIT
(MDEC PREMIUM DIGITAL TECHNOLOGY INSTITUTION (PDTI))



Date: 25 June 2025
Venue: KOMCA, USM

JULY 2025

HACKATTACK 2.0



Date: 25 June 2025

Venue: Meeting Room, PPSKomputer

JULY 2025

DEAN'S LIST AWARDS CEREMONY SEMESTER 1, 2024/2025



Venue: Meeting Room, PPSKomputer

CSMIND 2025

Date: 25 June 2025

Venue: Meeting Room, PPSKomputer

JULY 2025

VISIT FROM KTECHNO & KSTI



Date: 30 September 2025
Venue: Auditorium, PPSKomputer

SEPTEMBER 2025

POSTGRADUATE WELCOMING CEREMONY



Date: 22 September 2025

Venue: PPSKomputer

SEPTEMBER 2025

LAWATAN DARI PENSYARAH UITM



Date: 27 October 2025

Venue: Auditorium, PPSKomputer

OCTOBER 2025

NERACA 3.0 CTF COMPETITION



Date: 27 October 2025

Venue: Auditorium, PPSKomputer

OCTOBER 2025

NERACA 3.0 CTF COMPETITION



Date: 28 Nov 2025 (Friday)

NOVEMBER 2025

**COMPUTER SCIENCE JOURNAL CLUB (CSJC) 2025/26
SHARING SESSION - DATA TO KNOWLEDGE TRACK & NEW
POSTGRADUATE STUDENTS WELCOMING SESSION**



**Data to Knowledge Track &
New Postgraduate Students Welcoming Session**

28 November 2025 (Friday) 3:00 PM | CS Meeting Room, School of Computer Sciences

			
Assoc. Prof. Dr. Wan Mohd Nazmee Wan Zainon	Assoc. Prof. Dr. Wong Li Pel	Kelvin Lim Ching Wei	Wang Jiangtao
Welcoming Remarks by the Dean, School of Computer Sciences	Research Journey Towards Graduation	Introduction to the Computer Science Postgraduate Society	From Heavy to Efficient: Evolution of U-Net Architectures Toward Lightweight and Boundary- Aware Dermoscopic Image Segmentation

Date: 10-11 December 2025
Venue: Auditorium INFORMM

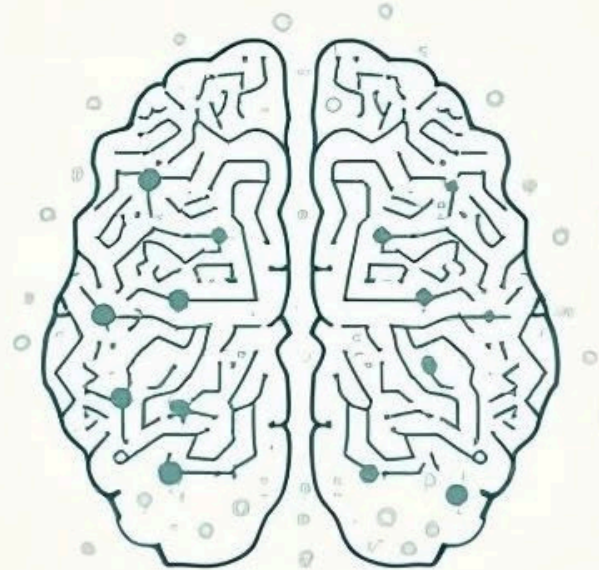
DECEMBER 2025

AI IN HEALTHCARE USM 2025 SEMINAR



SEMINAR ON ARTIFICIAL INTELLIGENCE (AI) IN HEALTHCARE

UNIVERSITI SAINS MALAYSIA, MALAYSIA
AL-FURAT AL-AWSAT TECHNICAL UNIVERSITY, IRAQ



**CPD POINTS
PROVIDED!**

**REGISTRATION
NOW OPEN!**



LIMITED SEATS AVAILABLE

10 - 11 DECEMBER 2025

AUDITORIUM INFORMM, USM

Division of Academic & International, USM
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School of Computer Sciences, USM
Al-Furat Al-Awsat Technical University, Iraq