RAZALI YAAKOB, Ph.D.



PERSONAL DETAILS

Department:	Computer Science
Faculty:	Computer Science and Information Technology
Field of Specialization:	Artificial Intelligence, Evolutionary Computation, Neural Network, Pattern Recognition, Machine Learning.
Gender:	Male
Birth date:	May 6, 1972
Mobile No.:	+60197858474
Citizenship:	Malaysian
Staff ID and I/C No:	A01884 / 720506-14-5537
Languages:	Malay and English (excellent in speaking and writing for both languages)
H-Index:	17 (Scopus); 21 (Google Scholar)

ACADEMIC QUALIFICATIONS

Institution:	University of Nottingham, UNITED KINGDOM
Year:	2008
Degree:	PhD, *Computer Science*
Dissertation:	Integration of Best Population Pool and Social Learning: An Investigation in Game Playing

Institution:	Universiti Putra Malaysia, MALAYSIA
Year:	1999
Degree:	Master of Computer Science

Institution:	Universiti Putra Malaysia, MALAYSIA
Year:	1996
Degree:	Bachelor of Computer Science

Institution:	Universiti Pertanian Malaysia, MALAYSIA
Year:	1993
Degree:	Diploma in Computer Science

ACADEMIC APPOINTMENT

- 1 December 2013-Present: *Associate Professor*, FSKTM, UPM.
- 1 October 2008 – November 2013: *Senior Lecturer*, FSKTM, UPM.
- 13 May 1999 – 30 September 2008: *Lecturer,* FSKTM, UPM.
- 3 February 1997 – 12 May 1999: *Tutor,* FSKTM, UPM.

ADMINISTRATION APPOINTMENT

- 1 September 2021 – 31 January 2024: *Dean*, FSKTM, UPM.
- 18 March 2020 – 30 August 2021: Deputy Dean, FSKTM, UPM.
- 1 December 2016 – 30 November 2019: Head, Dept. Computer Science, FSKTM, UPM.

PROFESIONAL SERVICES

- External Accessor for Master in Artificial Intelligence, Faculty of Computer Science and Information Technology, Universiti Kebangsaan Malaysia (UKM), 2026-2029.
- Academic Programme Committee Member and External Advisor for PhD in Applied Artificial Intelligence, Universiti Teknikal Malaysia Melaka (UTeM), 2026.
- Chairperson and Evaluation Panel for the Re-Accreditation Assessment of the Academic Programme at the University of Malaya (UM) – Master of Computer Science, 2026
- External Academic Advisor for the Undergraduate Data Science Programme, Universiti Malaysia Sabah (UMS), 2025.
- Member of the Programme Committee for the Master of Finance, School of Business and Economics, Universiti Putra Malaysia (UPM), 2023.
- Member of the Advisory Committee, School of Business and Economics, Universiti Putra Malaysia (UPM), 2022-2024.
- Member of the Programme Board of Studies for the Foundation in Computing and Creative Technology Programme, Universiti Malaysia Sarawak (UNIMAS), 2022.
- UPM Research Grant Evaluator since 2021University Panel Evaluator for Academic Programme Maintenance Audit, Universiti Putra Malaysia (UPM), 2018
- Panel Evaluator for Audit and Evaluation of Academic Programmes at Universiti Kebangsaan Malaysia (UKM), 2018
- Universiti Evaluator Panel, Universiti Putra Malaysia (UPM), 2018-2020.
- UMCCed Studies Committee Members (Curriculum Review), Universiti Malaya (UM), 2017.
- Book Manuscript Evaluator, Universiti Kebangsaan Malaysia (UKM), 2020.

RESEARCH ATTACHMENT/SABBATICAL/VISITING LECTURER

• 10 Feb. 2024 – 11 Mar. 2024	Research Attachment	Munster University, Germany
• 18 Nov. 2024 – 15 Dec. 2024	Visiting Lecturer	South Kazakhstan Pedagogical University

• Nov. 2013-Jul. 2014	Sabbatical Leave	named after Ozbekali Zhanibekov, Kazakhstan Essex University, UK

ADMINISTRATIVE RESPONSIBILITIES

No.	Position	Department/Faculty/Other Institution	Year
1.	Dean	Faculty	2021-2024
2.	Deputy Dean (Development, Industry and Community Relations)	Faculty	2020 - 2021
3.	Head of Department	Faculty	2017 - 2019
4.	Coordinator of Student Mobility Unit	University	2015, 2016
5.	Head of Student Mobility Unit	Faculty	2015
6.	Final Year Project Coordinator SSK4999	Faculty	2013, 2012, 2009, 2008
7.	Coordinator for SSK1101 (UPM-IPTS Academic Collaboration Program)	University	2012, 2013
8.	Coordinator SSK3117	Faculty	2012
9.	Coordinator for SSK3101 (UPM-IPTS Academic Collaboration Program)	University	2012, 2009, 2007
10.	Coordinator for SAK1111 (UPM-IPTS Academic Collaboration Program)	University	2011, 2010, 2009, 2008, 2007
11.	Coordinator for SSK3100 (Computer Programming I)	Faculty	2011, 2010, 2007
7	Coordinator for SSK3100 (UPM-IPTS Academic Collaboration Program)	University	2011, 2008
8	Coordinator for SSK3101 (Computer Programming II)	Faculty	2006
9	Promotion and Visiting Committee	Department	2007

10	Training Coordinator for student organised by MDeC	Faculty	2013, 2012, 2010, 2011, 2009, 2008
11	Auditor for Student Election	University	2012, 2009
12	Single Point of Contact Program Infosys	University	2011, 2009
13	Committee of E-Content Expert Team CaDE, UPM	University	2010

RESEARCH ACTIVITIES

A) As Project Leader - 9
B) As Project Members - 22

NUMBER OF STUDENTS GRADUATED

No.	Level	Total
1	PhD	10
2	Master (By Research)	2
3	Master (By Coursework)	5

PUBLICATIONS

I. JOURNALS

1. Lei Wang, Mohd Yunus Sharum, **Razali BinYaakob**, Khairul Azhar Kasmiran, and Yu Liu (2026). SciencesFrequency-guided cross-modal diffusion for online Chinese handwriting enhancement, Information Sciences, vol. 761. https://doi.org/ 10.1016/j.ins.2026.124136.

2. Gui Tao, **Razali Yaakob**, and Sina Abdipoor (2026). Artificial Intelligence for Thyroid Histopathology Image Analysis: A Systematic Review, Journal of Artificial Intelligence, 19(1), pp. 78-93. https://doi.org/ 10.3923/jai.2026.78.93.

3. Xu Tong, **Razali Yaakob**, and Sina Abdipoor (2026). Large Language Models in Mathematical Intelligent Educational Assessment: A Literature Review, Journal of Artificial Intelligence, 19(1), pp. 49-59. https://doi.org/10.3923/jai.2026.49.59.

4. Keong Kuon Lock, **Razali Yaakob**, Sina Abdipoor, Mingxuan Li (2026). An integration of discrete wavelet transform and time-series recurrent neural network to improve stock price prediction, Applied Computing and Informatics, pp. 1-12, https://doi.org/10.1108/ACI-08-2025-0335.

5. Lei Wang, Mohd Yunus Sharum, **Razali BinYaakob**, Khairul Azhar Kasmiran, and Yu Liu (2026). Hierarchical offline-to-online Chinese handwriting trajectory reconstruction via dual-domain priors, Journal of King Saud University - Computer and Information Sciences, 38:722, pp. 1-20. https://doi.org/10.1007/s44443-026-01050-5

7. Jialu Gao, Norwati Mustapha, **Razali Bin Yaakob**, Noridayu Binti Manshor (2026). DWL-ICA: End-to-End Adaptive ICA Weighting for EEG-Based Stroke and Traumatic Brain Injury Classification, International Journal of Online and Biomedical Engineering. https://doi.org/10.3991/ijoe.v22i07.61213

8. Md Faisal Bin Abdul Aziz, Md Faisal, Azree Nazri, Fatematuz Zuhura Evamoni, **Razali Yaakob**, and Teh Noranis Mohd Aris (2026). SMOTE-ENN-LR: Leveraging Machine Learning For Breast Cancer Classification In Microarray Gene Expression With Explainable AI, Publications de l'Institut Mathematique. https://doi.org/10.2298/PIM2532025S

9. Suman Sukhavasi, Thinagaran Perumal, Norwati Mustapha, **Razali Yaakob** (2026). Lightweight Ontology Architecture for QoS Aware Service Discovery and Semantic CoAP Data Management in Heterogeneous IoT Environment, Computers, Materials and Continua, pp. 1-32. https://doi.org/10.32604/cmc.2026.075613

10. Iyad Altawaiha, Rodziah Atan, **Razali Bin Yaakob**, Rusli Bin Hj Abdullah (2026). A three-step SEM-Bayesian network approach for predicting the determinants of CloudIoT-based healthcare adoption, International Journal of Information Technology (Singapore), vol. 18, pp. 111-131. https://doi.org/10.1007/10.1007/s41870-024-01743-y

11. Huda Fawzy AL-Shahad, **Razali Yaakob**, Nurfadhlina Mohd Sharef, Hazlina Hamdan, and Hasyma Abu Hassan, Xiaoyi Jiang (2026). A Deep Learning Approach forThree-DimensionalThyroid Nodule Detection from Ultrasound Images, Computer Modeling in Engineering and Sciences, pp. 1-20. https://doi.org/ 10.32604/cmes.2025.074109.

12. Ding Zeyu, **Razali Yaakob**, Koh Tieng Wei, Azreen Azman, Siti Nurulain Mohd Rum, Nurfadhlina Zakaria, Azree Shahril Ahmad Nazri (2026), TB-FusionNet: A Multi-Scale Feature Fusion Algorithm With Spatial and Channel Cross-Attention for Tuberculosis Detection, IEEE ACCESS, 14, p: 4675-4687. https://doi.org/ 10.1109/ACCESS.2026.3650782.

13. Sina Abdipoor, **Razali Yaakob**, Say Leng Goh, Salwani Abdullah, Hazlina Hamdan, Khairul Azhar Kasmiran (2025), Optimality Versus Generality: Performance Assessment of Meta-Heuristics in Educational Timetabling, IEEE Access, vol. 13. https://doi.org/10.1109/ACCESS.2025.3565522

14. Ding Zeyu, **Razali Yaakob**, Azreen Azman, Siti Nurulain Mohd Rum, Nurfadhlina Zakaria, Azree Shahril Ahmad Nazri (2025), Artificial intelligence-powered tuberculosis detection with

complementary domain attention model, Neurocomputing, 637. https://doi.org/10.1016/j.neucom.2025.130089.

15. Huda Fawzy AL-Shahad, **Razali Yaakob**, Nurfadhlina Mohd Sharef, Hazlina Hamdan, and Hasyma Abu Hassan (2025). An Improved Pix2pix Generative Adversarial Network Model to Enhance Thyroid Nodule Segmentation, Journal of Advances in Information Technology, Vol. 16 (1), pp. 37-48.

16. Magagula Alson Khumbulani, **Razali Yaakob** (2025), Student Performance Prediction in Intelligent Tutoring Systems: Methods, Challenges, and Future Perspectives, Bulletin of South Kazakhstan State Pedagogical University (ILIM), 43(1), pp. 18-34.

17. Iyad Altawaiha, Rodziah Atan, Razali Bin Yaakob, Rusli Bin Hj Abdullah (2025). Assessing and prioritizing crucial drivers for CloudIoT-based healthcare adoption: an analytic hierarchy process approach, International Journal of Information Technology (Singapore), vol. 17, pp. 5061-5078. https://doi.org/10.1007/s41870-024-01742-z

18. Wang Lei, Yu Liu, Mohd Yunus Sharum, **Razali Yaakob**, Khairul Azhar Kasmiran, Cunrui Wang (2025), Deep learning for Chinese font generation: A survey, Expert Systems with Applications, vol. 276. https://doi.org/10.1016/j.eswa.2025.127105

19. Areen Metib Al-Hgaish, Rodziah Binti Atan,Razali Yaakob, Mohd Hafeez Osman (2025), A Robust Prioritization Framework of Data Quality Dimensions to Improve ML-Driven Healthcare Systems Using AHP and Sensitivity Analysis, IEEE Access, vol. 13. DOI: 10.1109/ACCESS.2025.3601031

20. Amir Mohamed Talib, Areen Metib Al-Hgaish, Rodziah Binti Atan, Abdulaziz Alshammari, Fahad Omar Alomary, **Razali Yaakob**, (Member, Abdulaziz Alsahli, Mohd Hafeez Osman (2025), Evaluating Critical Success Factors in AI-Driven Drug Discovery Using AHP: A Strategic Framework for Optimization, IEEE Access, vol. 13. https:// 10.1109/ACCESS.2025.3546925

21. Nurul Nadhrah Kamaruzaman, Nor Azura Husin, Norwati Mustapha, **Razali Yaakob** (2024), Smote-2DCNN For Enhancing Speech Emotion Recognition, Journal of Theoretical and Applied Information Technology, Volume 102, Issue 13, Pages 5079 – 5092.

22. Ma'aruf Mohammed Lawal, Hamidah Ibrahim, Nor Fazlida Mohd Sani, **Razali Yaakob**, Ali A. Alwan (2024), CSQUiD: an index and non-probability framework for constrained skyline query processing over uncertain data, PeerJ Computer Science, vol. 10.

23. Kalimuthu Sivakumar, Thinagaran Perumal, Erzam Marlisah, **Razali Yaakob**, Vidhyasagar B.S. and Noor Hafizah Ismail (2024). Human Activity Recognition Based on Device-Free Wi-Fi Sensing: A Comprehensive Review, Malaysian Journal of Computer Science, Vol. 37, Issue 3, Pages 252 – 269.

24. Iyad Altawaiha, Rodziah Atan, **Razali Yaakob**, Rusli Abdullah (2024), A three-step SEM-Bayesian network approach for predicting the determinants of CloudIoT-based healthcare adoption, International Journal of Information Technology, Singapore.

25. Iyad Altawaiha, Rodziah Atan, **Razali Yaakob**, Rusli Abdullah (2024), Assessing and prioritizing crucial drivers for CloudIoT-based healthcare adoption: an analytic hierarchy process approach, International Journal of Information Technology, Singapore.

26. Ding Zeyu, **Razali Yaakob**, Azreen Azman, Siti Nurulain Mohd Rum, Nurfadhlina Zakaria, Azree Shahril Ahmad Nazri (2023), TBVA-GAN: A Class Activation Mapping-Guided Tuberculosis Visual Attribution Generative Adversarial Network, Journal of Theoretical and Applied Information Technology, 101(22), pp. 7275-7286.

27. Sina Abdipoor, **Razali Yaakob**, Say Leng Goh, Salwani Abdullah (2023), Meta-heuristic approaches for the University Course Timetabling Problem, Intelligent Systems with Applications, vol. 19.

28. Deng Ting, Hazlina Hamdan, **Razali Yaakob**, Khairul Azhar Kasmiran (2023), Personalized Federated Learning for In-Hospital Mortality Prediction of Multi-Center ICU, IEEE Access, vo. 11, pp. 11652 – 11663.

29. Olalekan AgboladeI, Azree NazriI, **Razali Yaakob**, Yoke Kqueen Cheah (2023), Homologous Anatomical-Based Facial-Metrics Application to Down Syndrome Face Recognition, IEEE Access, 11, pp. 104879-104889

30. Ma'aruf Mohammed Lawal, Hamidah Ibrahim, Nor Fazlida Mohd Sani, **Razali Yaakob** (2023), Theoretical Frameworks for Improving the Computation of Skylines over Uncertain Data, Sule Lamido University Journal of Science and Technology (SLUJST), 7(1), pp. 124-133.

31. Iyad Altawaiha, Rodziah Atan, **Razali Yaakob**, Rusli Abdullah, Radwan Sneesl (2022), Cloudiot-Based Healthcare Adoption By Healthcare Professionals: A Conceptual Model, 199(23), pp. 6842 – 6860.

32. Babangida Lawal, Thinagaran Perumal, Norwati Mustapha, **Razali Yaakob** (2022), Internet of Things (IoT) Based Activity Recognition Strategies in Smart Homes: A Review, IEEE Sensors Journal, 22(9), pp. 8327 – 8336.

33. Ee Yeo Keat, Nurfadhlina Mohd Sharef, **Razali Yaakob**, Khairul Azhar Kasmiran, Erzam Marlisah, Norwati Mustapha, and Maslina Zolkepli (2022), Multi-Objective Deep Reinforcement Learning for Recommendation Systems, IEEE Access, vol. 10, pp. 65011 – 65027.

34. Rawia Tahrir Salih, Aws Alaa Zaidan, **Razali Yaakob** Rusli Abdullah, Nurfadhlina Mohd Sharef, Bilal Bahaa Zaidan, Albahri O.S, Abulkarem K.H. (2022), Determining Importance of Many-Objective Optimisation Competitive Algorithms Evaluation Criteria Based on a Novel Fuzzy-Weighted Zero-Inconsistency Method, International Journal of Information Technology and Decision Making, 21(1), pp. 195-241.

35. Salimeh Malekpour Heydari, Teh Noranis Mohd Aris, **Razali Yakoob**, Hazlina Hamdan (2022), Wavelet Transform And Neural Network Model For Streamflow Forecasting, Journal of Theoretical and Applied Information Technology, 100(19), pp. 5419 – 5428.

36. Salimeh Malekpour Heydari, Teh Noranis Mohd Aris, **Razali Yaakob**, Hazlina Hamdan (2021). Data-driven forecasting and modeling of runoff flow to reduce flood risk using a novel hybrid wavelet-neural network based on feature extraction, Sustainability, 13, 11357, pp. 1-16 (Open Access).

37. Olalekan AgboladeI, Azree NazriI, **Razali Yaakob**, Abdul Azim Ghani, Yoke Kqueen Cheah (2021), Investigation Of Age-Related Facial Variation Among Angelman Syndrome Patients, Scientific Reports, 11(20767), Open Access.

38. Suman Sukhavasi, Thinagaran Perumal, Norwati Mustapha, **Razali Yaakob**, Bin Ahmadon M.A., Yamaguchi S. (2021) CoAP-based lightweight interoperability semantic sensor and actuator ontology for IoT ecosystem, Volume 12, Issue 2, Pages 92 – 110.

39. Eman Thabet, Fatimah Khalid, Puteri Suhaiza Sulaiman and **Razali Yaakob** (2021), Algorithm of local features fusion and modified covariance-matrix technique for hand motion position estimation and hand gesture trajectory tracking approach, Multimedia Tools and Applications, volume 80, Issue 4, Pages 5287 – 5318.

40. Nurul Husna Mohd Saad, Hamidah Ibrahim, Fatimah Sidi, **Razali Yaakob,** Alwan A.A. (2021), Efficient Skyline Computation on Uncertain Dimensions, IEEE Access, Volume 9, Pages 96975 – 96994.

41. Majid Torabi, Nur Izura Udzir, Mohd Taufik Abdullah, **Razali Yaakob** (2021), A Review on Feature Selection and Ensemble Techniques for Intrusion Detection System, International Journal of Advanced Computer Science and Applications, vol. 12, Issue 5, Pages 538 – 553.

42. Mohd Norhisham Razali, Noridayu Manshor, Alfian Abdul Halin, Norwati Mustapha, **Razali Yaakob** (2021), Extremal Region Selection for MSER Detection in Food Recognition, ASM Science Journal, vol. 15, pages 1 – 11.

43. Mohd Norhisham Razali, Noridayu Manshor, Alfian Abdul Halin, Norwati Mustapha, **Razali Yaakob** (2021), Fuzzy encoding with hybrid pooling for visual dictionary in food recognition, Indonesian Journal of Electrical Engineering and Computer Science, 21(1), pp. 179-195.

44. Rawia Tahrir Mohammed, **Razali Yaakob**, Nurfadhlina Mohd Sharef, Rusli Abdullah (2021), Unifying The Evaluation Criteria Of Many Objectives Optimization Using Fuzzy Delphi Method, Baghdad Science Journal, 18(4), pp. 1423-1430.

45. Lawal Ma'aruf Mohammed, Hamidah Ibrahim, Nor Fazlida Mohd Sani, Razali Yaakob (2020), An indexed non-probability skyline query processing framework for uncertain data, Advances in Intelligent Systems and Computing, vol. 1141, Pages 289 - 301

46. Rawia Tahrir Salih, **Razali Yaakob**, Aws Alaa Zaidan, Rusli Abdullah, Nurfadhlina Mohd Sharef (2020), Review Of The Research Landscape Of Multi-Criteria Evaluation And Bench- Marking Processes For Many-Objective Optimisation Methods: Coherent Taxonomy, Challenges And Recommended Solution, International Journal Of Information Technology & Decision Making, 19(6), Pp. 1619-1693.

47. OlalekanAgboladeI, Azree NazriI, **Razali Yaakob**, Abdul Azim Ghani, Yoke Kqueen Cheah (2020), Morphometric approach to 3D soft-tissue craniofacial analysis and classification of ethnicity, sex,and age, PLoS ONE, 15(4), pp. 1-24.

48. Alwatben Batoul Rashed, Hazlina Hamdan, Nurfadhlina Mohd Sharef, Md Nasir Sulaiman, **Razali Yaakob**, Mansir Abubakar (2020), Multi-objective clustering algorithm using particle swarm optimization with crowding distance (MCPSO-CD), International Journal of Advances in Intelligent Informatics, 6(1), pp. 72-81.

49. Deng Ting, Hazlina Hamdan, Khairul Azhar Kasmiran, **Razali Yaakob** (2020), Federated Learning Optimization Techniques For Non-Iid Data: A Review, International Journal of Advanced Research in Engineering and Technology(IJARET), 11(12), pp.1315-1329.

50. Olalekan Agbolade, Azree Nazri, **Razali Yaakob**, Abdul Azim Ghani, Yoke Kqueen Cheah (2020), Down Syndrome Face Recognition: A Review, 12(1182), pp: 1-17.

51. Azree Nazri, Olalekan Agbolade, **Razali Yaakob**, Abdul Azim Ghani, Yoke Kqueen Cheah (2020), A novel investigation of the effect of iterations in sliding semi-landmarks for 3Dhuman facial images, BMC Bioinformatics, 21(208), pp: 1–10.

52. Ma'aruf Mohammed Lawal, Hamidah Ibrahim, Nor Fazlida Mohd Sani, **Razali Yaakob** (2020), Analyses of Indexing Techniques on Uncertain Data With High Dimensionality, IEEEAccess, vol. 8, pp: 74101-74117.

53. Olalekan Agbolade, Azree Shahrel Ahmad Nazri, **Razali Yaakob**, Abdul Azim Abd Ghani, Yoke Kqueen Cheah (2020), Morphometric Analysis of 3D Soft-Tissue for Sexual Dimorphism in Human Face, International Journal of Morphology, 38(2) pp: 367-373.

54. Azreen Azman, Mostafa Ahmed Alksher, Shyamala Doraisamy, **Razali Yaakob**, Eissa M. Alshari (2020), A Framework for Automatic Analysis of Essays Based on Idea Mining, Lecture Notes in Electrical Engineering, vol. 603, pp: 639-648.

55. Olalekan Agbolade, Azree Shahrel Ahmad Nazri, **Razali Yaakob**, Abdul Azim Abd Ghani, Yoke Kqueen Cheah (2019), 3-Dimensional Facial Expression Recognition in Human using Multi-Points Warping, BMC Bioinformatics, 20(1), pp: 619.

56. Stefanus Kieu Tao Hwa, Mohd Hanafi Ahmad Hijazi, Abdullah Bade, **Razali Yaakob**, Mohammad Saffree Jeffree (2019), IAES International Journal of Artificial Intelligence, 8(4), pp: 429-435.

57. Siti Nurulain Muhd Rum, Lilly Suriani Affendey, **Razali Yaakob** (2019), Ontology Development Life Cycle: A Review, International Journal of Advanced Science and Technology, 28(8), pp: 42-49.

58. N.N. Kamaruzaman, Nor Azura Husin, Norwati Mustapha, **Razali Yaakob** (2019). Towards a Multimodal Analysis to Predict Mental Illness in Twitter Platform, International Journal of Advanced Trends in Computer Science and Engineering, 8(1.4 S1), pp: 126-130.

59. S.M. Heydari, Teh Noranis Mohd Aris, **Razali Yaakob**, Hazlina Hamdan (2019). An Analysis of Flood Forecasting Criteria, International Journal of Advanced Trends in Computer Science and Engineering, 8(1.4 S1), pp: 145-152.

60. Syeda Syaizadi Meraj, **Razali Yaakob**, Azreen Azman, Siti Nurulain Muhd Rum, Azree Shahril Ahmad Nazri (2019). Detection of Pulmonary Tuberculosis Manifestation in Chest X-Rays Using Different Convolutional Neural Network (CNN) Models. International Journal of Engineering and Advanced Technology, 9(1), pp.:2270-2275.

61. Aaron Franklin Soon, Siti Nurulain Mohd Rum, Hamidah Ibrahim, Rohaya Latip, **Razali Yaakob**, Lilly Suriani Affendey (2019). A Weight-Range Classification Model for Localizing Cell Using Crowdsource Data. Vol. 8(2), pp.: 1351-1358.

62. Mohd Norhisham Bin Razali, Noridayu Manshor, Norwati Mustapha, **Razali Yaakob**, Muhammad Noorazlan Shah Zainudin (2019). Improving Invisible Food Texture Detection by Using Adaptive Extremal Region Detector in Food Recognition, International Journal of Advanced Trends in Computer Science and Engineering, vol. 8(1.4S1), pp.: 68-74.

63. Azreen Azman, Mostafa Ahmed Alksher, Eissa M. Alshari, **Razali Yaakob**, Shyamala Doraisamy (2019). Optimization of Idea Mining Modes based on Text Position Weight, International Journal of Advanced Trends in Computer Science and Engineering, vo. 8(1.4S1), pp.: 120-125.

64. Mohd Hanafi Ahmad Hijazi, Leong Qi Yang, Rayner Alfred, Hairulnizam Mahdin, **Razali Yaakob** (2019). Ensemble Deep Learning for Tuberculosis Detection, Indonesian Journal of Electrical Engineering and Computer Science, vol. 17 (2), pp.: 1014-1020

65. Liew Siew Wooi, S.W., Nur Fazlida Mohd Sani, Mohd Taufik Abdullah, **Razali Yaakob**, Mohd Yunus Sharum (2019). An Effective Security Alert Mechanism for Real-Time Phishing Tweet Detection on Twitter. Computers and Security, Vol. 83,pp.: 201-207.

66. Nurul Husna Mohd Saad, Hamidah Ibrahim, Fatimah Sidi, **Razali Yaakob** (2019). Skyline Probabilities with Range Query on Uncertain Dimensions. Advances Intelligent Systems and Computing, vol. 924, pp.: 225-242.

67. Syeda Syaizadi Meraj, **Razali Yaakob**, Azreen Azman, Siti Nurulain Muhd Rum, Azree Shahril Ahmad Nazri (2019). Artificial Intelligence in Diagnosing Tuberculosis: A Review. International Journal on Advanced Science, Engineering and Information Technology, 9(1), pp.:81-91.

68. Liew, S.W., Nur Fazlida Mohd Sani, Mohd Taufik Abdullah, **Razali Yaakob**, Mohd Yunus Sharum (2018). Increase Phishing Tweets Detection Accuracy with Improved Classification Feature/ Indian Journal of Public Healtch Research and Development, 9(10), pp. 991-995

69. Siti Nurulain Muhd Rum, Abu Bakar Md Sultan, **Razali Yaakob**, Thinagaran Perumal (2018). Asynchronous Web Technology in Online Counselling System. Indian Journal of Science and Technology, 11(20), pp. 1-9.

70. Mustafa Alksher, Azreen Azman, **Razali Yaak**ob, Alshari EM, Rabiah Abdul Kadir, Mohamed (2018). Effective Idea Mining Technique based on Modeling Lexical Semantic. Journal of Theoretical and Applied Information Technology, 96(16), pp. 5350 – 5362.

71. Eman Thabet, Fatimah Khalid, Puteri Suhaiza Sulaiman and **Razali Yaakob** (2018). Fast Marching Method and Modified Features Fusion in Enhanced Dynamic hand Gesture Segmentation and Detection Method Under Complicated Background. Journal of Ambient Intelligence and Humanized Computing, 9(1). Pp 755-769.

72. Liew, S.W., Nur Fazlida Mohd Sani, Mohd Taufik Abdullah, **Razali Yaakob**, Mohd Yunus Sharum (2018). Improvement of Classification Features to Increase Phishing Tweets Detection Accuracy, 96(10), pp. 2900-2910.

73. Nurul Husna Mohd Saad, Hamidah Ibrahim, Fatimah Sidi, **Razali Yaakob** (2018). Non-Index Based Skyline Analysis on High Dimensional Data With Uncertain Dimensions, Communications in Computer and Information Science, 838, pp. 272-286.

74. Rajina R. Mohamed, Razali Yaacob, Mohamad A. Mohamed, Arniyati Ahmad, Munir Tajuddin (2018), Indonesian Journal of Electrical Engineering and Computer Science, 12(3), pp. 1386-1393.

75. Rajina Raj Mohamed, Razali Yaacob, Mohamad A. Mohamed, Tengku Azahar Tengku Dir, Fiza Abdul Rahim (2018), Food freshness using electronic nose and its classification method: A review, International Journal of Engineering and Technology(UAE), 7(3), pp. 49-53.

76. Erzam Marlisah, **Razali Yaakob**, Md Nasir Sulaiman, Mohd Basyaruddin (2017). Q-Learning With Adaptive Kanerva Coding On Protein Docking. Journal Of Theoretical And Applied Information Technology, 95(21), pg: 5685-5692.

77. Sitti Syarah Maharani, **Razali Yaakob**, Nur Izura Udzir (2017). A framework for university entry selection using neural network. Advanced Science Letters, vol. 23 (5), pp.: 4158-4161.

78. Erman Thabet, Fatimah Khalid, Puteri Suhaiza Sulaiman, **Razali Yaakob** (2017). Low Cost Skin Segmentation Scheme in Videos Using Two Alternative Methods for Dynamic Hand Gesture Detection Method. Advances in Multimedia, vol.: 2017, Article number 7645189 (Open Access).

79. Nor Azura Husin, Norwati Mustapha, Md. Nasir Sulaiman, **Razali Yaacob**, Hazlina Hamdan and Masnida Hussin (2016). Performance of Hybrid GANN in Comparison with Other Standalone Models on Dengue Outbreak Prediction. Journal of Computer Science, 12(6), pp.:300-306.

80. Nurul Husna Mohd Saad, Hamidah Ibrahim, Fatimah Sidi, **Razali Yaakob** (2016). Computing Range Skyline Query On Uncertain Dimension. Lecture Notes in Computer Science, volume 9828, 2016, Pages 377-388.

81. Sarmad Makki, **Razali Yaakob**, Norwati Mustapha, and Hamidah Ibrahim (2015). Advances in Document Clustering with Evolutionary-Based Algorithms. American Journal of Applied Science, 12(10), pp: 689-708. ISSN: 1546-9239.

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V. BULLETIN

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VI. OTHER EQUIVALENT OUTCOMES (MONOGRAPH/ MODULE/ POPULAR WRITING & ARTICLE/ DESIGN ETC)

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RECOGNITION

I. THESIS EXAMINATION

A. External Examiner

a. **PhD – 18**
b. **MSc - 10**

B. Internal Examiner

a. **PhD – 21**
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II. EDITORIAL BOARD/TECHNICAL EDITOR/REVIEWER

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