Abdul Sahli Fakharudin

PROFILE

A lecturer in the Faculty of Computing, Universiti Malaysia Pahang Al-Sultan Abdullah. His main research area is artificial neural networks and machine learning. The head of the Machine Intelligence (MIRG) research group. A specialist in system administration / SysOps on both private and public cloud facilities for planning, deployment, operation and maintenance of applications and services.

ADDRESS

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EDUCATION

Bachelor of Information Technology Honours, System Management & Sciences, Universiti Kebangsaan Malaysia, 1999.

Master of Information Technology, Universiti Kebangsaan Malaysia, 2006.

Thesis: Satu Model Sistem Rangkaian Neural dan Alkhawarizmi Genetik untuk Menentukan Kualiti Minyak Pelincir (A Neural Network and Genetic Algorithm System Model to Determine Lubricant Oil Quality)

Doctor of Philosophy, Intelligent Computing, Universiti Putra Malaysia, 2018.

Thesis: Modelling of Biogas Production Process with Evolutionary Artificial Neural Network and Genetic Algorithm

RESEARCH

Machine Learning (Artificial Neural Networks, Deep Learning)

Process modelling, Prediction system, Classification system

Intelligent Computing (Heuristic Search, Genetic Algorithm)

Process optimisation, System optimisation

TECHNICAL

System Administrator / SysOps (Mainly Debian & Ubuntu)

Planning, Installation, Deployment, Operation, Maintenance - Applications and Services

System Analyst (System Requirement & Design)

Requirement Engineering, System Design

Journal

Web Phishing Classification Model using Artificial Neural Network and Deep Learning Neural Network, Noor Hazirah Hassan, Abdul Sahli Fakharudin, Journal of Advanced Computer Science and Applications 14 (7), 535-542, (2023).

Investigating Internet of Things Impact on e-Learning System: An Overview, Duha Awad H Elneel, Hasan Kahtan, Abdul Sahli Fakharudin, Mansoor Abdulhak, Ahmad Salah Al-Ahmad, Yehia Ibrahim Alzoubi, Journal of Advanced Computer Science and Applications 14 (5), 679-693, (2023).

The Factors Influenced by Stakeholder Identification in E-learning Systems: A Survey, Duha Awad H Elneel, Hasan Kahtan, Abdul Sahli Fakharudin, Mansoor Abdulhak, Ahmad Salah Al-Ahmad, Yehia Ibrahim Alzoubi, Journal of King Saud University-Science 35 (3), 102566, (2023).

Comparison of meta-heuristic algorithms for fuzzy modelling of COVID-19 illness' severity classification, Nur Azieta Mohamad Aseri, Mohd Arfian Ismail, Abdul Sahli Fakharudin, Ashraf Osman Ibrahim, Shahreen Kasim, Noor Hidayah Zakaria, Tole Sutikno, IAES International Journal of Artificial Intelligence 11 (1), 50-63, (2022).

Model for phishing websites classification using artificial neural network, Noor Hazirah Hassan, Abdul Sahli Fakharudin, International Journal of Software Engineering and Computer Systems 7 (2), 1-8, (2021).

Comparison of Response Surface Methodology and Artificial Neural Network for the Solvent Extraction of Fatty Acid Methyl Ester from Fish Waste, Nur Hidayah Mat Yasin, Abdul Sahli Fakhrudin, Abdul Wafie Afnan Abdul Hadi, Muhammad Harith Mohd Khairuddin, Noor Raihana Abu Sepian, Farhan Mohd Said, Norazwina Zainol, International Journal of Modern Agriculture 9 (3), 1929-1942, (2020).

Review of The Meta-Heuristic Algorithms for Fuzzy Modeling in The Classification Problem, Nur Azieta Mohamad Aseri, Mohd Arfian Ismail, Abdul Sahli Fakharudin, Ashraf Osman Ibrahim, International Journal 9 (1.4), (2020).

Artificial Neural Network Modelling of Biogas Production Processes, Abdul Sahli Fakharudin, Md Nasir Sulaiman, Norwati Mustapha, Advanced Science Letters 24 (10), 7582-7587, (2018).

Modelling of Biogas Production from Banana Stem Waste with Neural Networks Learning Strategies to Optimise the Production, Abdul Sahli Fakharudin, Md Nasir Sulaiman, Norwati Mustapha, Journal of Theoretical and Applied Information Technology 95 (2), 285-291, (2017).

Book Chapter

Model Optimization Using Artificial Intelligence Algorithms for Biological Food Waste Degradation, Norazwina Zainol, Abdul Sahli Fakharudin, Nor Ilyya Syahira Zulaidi, Advances in Waste Processing Technology, 173-181, (2020).

Proceeding

Heart Disease Prediction Using Machine Learning: A Comparative Analysis of Single and Ensemble Models in Healthcare, Fatimah Azzahra Binti Mohd Sharifuddin, Abdul Sahli Fakharudin, Al-Fahim Mubarak-Ali, Ziti Fariha Mohd Apandi, Proceeding of the 2025 IEEE 9th International Conference on Software Engineering & Computer Systems (ICSECS), 543-547, (2025).

Improving Match Detection Process in the GCCD Model for C Applications Using Chi-Square Distance, Nurul Syafiqah Zaidi, Al-Fahim Mubarak-Ali, Abdul Sahli Fakharudin, Rahiwan Nazar Romli, Proceeding of the 2025 IEEE 9th International Conference on Software Engineering & Computer Systems (ICSECS), 176-180, (2025)

Determining the Best Weightage Feature in Parameterization Process of GCCD Model for Clone Detection in C-Based Applications, Nurul Syafiqah Zaidi, Al-Fahim Mubarak-Ali, Abdul Sahli Fakhrudin, Rahiwan Nazar Romli, Proceeding of the 8th IEEE International Conference on Software Engineering and Computer Systems (ICSECS 2023), 280-285, (2023).

Stakeholder Identification Overview and Challenges in Requirements Engineering Prospective, Duha Awad Elneel, Abdul Sahli Fakharudin, Elsadig Musa Ahmed, Hasan Kahtan, Mansoor Abdullateef, Proceeding of the 2nd International Conference on Computing and Information Technology (ICCIT) 2022, 314-316, (2022).

Multi-objective model optimisation using genetic algorithms for pleurotus sp. cultivation, Zainol, N., Fakharudin, A.S., Dzulkefli, N.A., Bakar, M.F.A, Proceeding of the Symposium on Energy Systems 2019, IOP Conference Series: Materials Science and Engineering 863(1), 012027, (2020).

Modeling of vanillin adsorption from aqueous solution using resin H103 by artificial neural network, Chan, W.S., Samah, R.A., Zainol, N., Fakharudin, A.S., Aziz, S.A., Phang, L.Y., Proceeding of the 1st Process Systems Engineering and Safety Symposium 2019, IOP Conference Series: Materials Science and Engineering 702(1), 012048, (2019).

Modelling and optimisation of oil palm trunk core biodelignification using neural network and genetic algorithm, Abdul Sahli Fakharudin, Norazwina Zainol, Zulsyazwan Ahmad Khushairi, Proceedings of the 8th International Conference on Informatics, Environment, Energy and Applications, ACM International Conference Proceeding Series, 155-158, (2019).

Application of Artificial Neural Network to Improve Pleurotus sp. Cultivation Modelling, Abdul Sahli Fakharudin, Norazwina Zainol, Noor Athirah Dzulkefli, Proceeding of the Engineering Application of Artificial Intelligence Conference 2018, MATEC Web of Conferences 255, 02010, (2019).

Implementing artificial neural networks and genetic algorithms to solve modeling and optimization of biogas production, Abdul Sahli Fakharudin, Md Nasir Sulaiman, Jailani Salihon, Norazwina Zainol, Proceedings of the 4th International Conference on Computing and Informatics, ICOCI 2013, 121-126, (2013).

Newspaper vendor sales prediction using artificial neural networks, Abdul Sahli Fakharudin, Mohd Azwan Mohamad, Mohd Usaid Johan, International Conference on Education Technology and Computer, ICETC 2009, 339-343, (2009).

Optimisation of fermentation process using data mining techniques for small-medium industry, Abdul Sahli Fakharudin, Abdullah Embong, Roslina Abdul Hamid, Mohd Azwan Mohamad Hamza, Khairul Anwar Ajid, Noorlin Mohd Ali, Siti Zanariah Satari, Junaida Sulaiman, Wan Salwanis Wan Md Zain, International Conference on Intelligent and Advanced Systems, ICIAS 2007, 273-275, (2007).

Determination of Lubricant Oil Quality in Vehicles using Neural Network for Environmental Issues, Siti Norul Huda Sheikh Abdullah, Khairuddin Omar, Mohammad Syarif Afriansyah, Chin Sin Lee, Norsalina Harun, Kamsuriah Ahmad, Mohd Zakree Ahmad Nazri, Mohamad Faidzul Nasrudin, Abdul Sahli Fakharudin, Siti Rozaimah Sheikh Abdullah, Che Hassan Che Haron, Mohd Esa Baruji, Sustainable Development Of Energy, Water And Environment Systems, 568-581, (2007).

Recognizing vehicle lubricant oil quality via neural network, Siti Norul Huda Sheikh Abdullah, Khairuddin Omar, Siti Rozaimah Sheikh Abdullah, Norsalina Harun, Mohd Syarif Afriansyah Lubis, Che Hassan Che Haron, Kamsuriah Ahmad, Mohd Zakree Ahmad Nazri, Mohammad Faidzul Nasrudin, Lee Chin Sin, Abdul Sahli Fakhrudin, Mohd Esa Baruji, Proceedings of the Eighth International Symposium on Signal Processing and Its Applications, 579-582, (2005).

GRANT

Industry

UIC220837 Big Data Analytic for Real-time Process Monitoring of the Polymerisation Reactor

Internal

RDU222414 Big Data Analytic for Real-time Process Monitoring of the Polymerisation Reactor

RDU182204-3 Modelling And Optimisation Of Local Fish Processing Waste For Value Added Product Using Neural Network And Genetic Algorithm For Optimal Process.

RDU1703295 Development of Dynamic Requirement Prioritization Tool to Support Scalability and Volatility.

RDU170393 Deep Learning Neural Network Features Classifier for Malware Detection in Mobile Devices.

RDU100331 Optimisation of Bioethanol Production from Oil Palm Trunk Using Particle Swarm Optimisation Approach.

RDU070310 Optimisation Of Fermentation Process In Small/Cottage Industry By Data Mining Techniques.

EXPERIENCE

Universiti Malaysia Pahang Al-Sultan Abdullah, 2006-Now

Senior Lecturer DS52 2017-Now

Head of Program (Software Engineering) 2018-2022

Lecturer DS45 2006-2017

Head of Program (Software Engineering) 2008-2010

SIRIM Berhad, 1999-2002

Associate Researcher 1999-2002

CERTIFICATE

Malaysia Board of Technologists (MBOT): Professional Technologist

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Microsoft Certified: Azure AI Fundamentals

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Microsoft Certified: Azure Fundamentals

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Certified Professional Requirement Engineering – Foundation Level (CPRE-FL)

MY-CPRE-FL-2014-00319