

# 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. A fellow in the Centre of Artificial Intelligence and Data Science (CAIDaS) and a member 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

Faculty of Computing, Universiti Malaysia Pahang Al-Sultan Abdullah, 26600, Pekan, Pahang, Malaysia

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## EMAIL

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## WEBSITE

[sahlifakharudin.com](http://sahlifakharudin.com)

## EDUCATION

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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

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Machine Learning (Artificial Neural Networks, Deep Learning)

Process modelling, Prediction system, Classification system

Intelligent Computing (Heuristic Search, Genetic Algorithm)

Process optimisation, System optimisation

## TECHNICAL

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System Administrator / SysOps (Mainly Debian & Ubuntu)

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

System Analyst (System Requirement & Design)

Requirement Engineering, System Design

## **PUBLICATION**

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### **Journal**

Web Phishing Classification Model using Artificial Neural Network and Deep Learning Neural Network, Noor Hazirah Hassan, Abdul Sahli Fakharrudin, *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 Fakharrudin, 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 Fakharrudin, 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 Fakharrudin, 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 Fakharrudin, *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 Fakharrudin, 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 Fakharrudin, Ashraf Osman Ibrahim, *International Journal* 9 (1.4), (2020).

Artificial Neural Network Modelling of Biogas Production Processes, Abdul Sahli Fakharrudin, 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 Fakharrudin, 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 Fakharrudin, Nor Ilyya Syahira Zulaidi, *Advances in Waste Processing Technology*, 173-181, (2020).

### **Proceeding**

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

Multi-objective model optimisation using genetic algorithms for pleurotus sp. cultivation, Zainol, N., Fakharrudin, 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., Fakharrudin, 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 Fakharrudin, 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 Fakharrudin, 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 Fakharrudin, 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 Fakharrudin, 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 Fakharrudin, 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 Faizul Nasrudin, Abdul Sahli Fakharrudin, 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 Faizul Nasrudin, Lee Chin Sin, Abdul Sahli Fakharrudin, Mohd Esa Baruji, Proceedings of the Eighth International Symposium on Signal Processing and Its Applications, 579-582, (2005).

## **GRANT**

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### **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**

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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**

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Malaysia Board of Technologists (MBOT): Professional Technologist

PT22100757

Microsoft Certified: Azure Fundamentals

0FD55B-CD8W92

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

MY-CPRE-FL-2014-00319