RESEARCH GROUP MEMBERS



Assoc. Prof. Dr. Razali Yaakob
Neural Networks, Evolutionary
Computation, Robotics,
Embedded System
Email: razaliy@upm.edu.my



Assoc. Prot. Datin Dr. Norwati Mustapho

Web Mining, Spatio-temporal Mining, Opinion/Sentiment Mining Email: norwatieupm.edu.my



Assoc. Prof. Dr. Teh Noranis Mohd. Aris

Artificial Intelligence, Fuzzy Systems, Data Analytics, Software Agents Email: nuraniseupm.edu.my



Assoc. Prof. Dr. Nurfadhlina Mohd Sharef

Text Mining, Semantic Web, Recommendation System Email: nurfadhlina@upm.edu.my



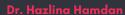
Assoc. Prof. Dr. Thinagaran Perumal

Smart Home, Embedded System, Activity Recognition, Internet of Things Email: thinagaraneupm.edu.my



Dr. Noridayu Manshor Image Processing, Image Classification, Pattern Recognition

Email: ayu@upm.edu.my



Medical Prognostic, Pattern Recognition, Prediction System, Optimization & Evolutionary Computing Email: hazlina@upm.edu.my



Dr. Khairul Azhar KasmiranNatural Language Processing, Optimisation,
Reinforcement Learning
Email: k_azhareupm.edu.my

RESEARCH

GROUP MEMBERS



Dr. Azree Shahrel Ahmad Nazri

Advanced Deep Learning, General Artificial Intelligence, Bioinformatics, System Biology Email: azree@upm.edu.my



Dr. Nor Azura Husin

Intelligent Computing, Outbreak Detection, Prediction model Email: n_azura@upm.edu.my



Dr. Maslina Zolkepli

Fuzzy Systems, Big Data, Deep Learning





Artificial Intelligence, Machine Learning Email: erzameupm.edu.my



Ts. Dr. Raihani Mohamed

Intelligent Systems, Robotics, Big Data Analytics

Email: raihanimohamed@upm.edu.my



Gs. Dr. Syaifulnizam bin Abd Manaf Data Science, Data Mining, Big Data Analytics, Remote Sensing, GIS Email: syaifulnizameupm.edu.my



Assoc. Prof. Dr. Azreen Azman Natural Language Processing, Text Mining, Information Retrieval Email: azreenazman@upm.edu.my



Dr. Alfian Abdul Halin

Applied Machine/Deep Learning, Computer Vision, Image/Video Processing, Pattern Recognition Email: alfian@upm.edu.my



Data Mining & Deep Learning

We concentrate on building knowledge reduction models for data classification as well as discovering strong associations among data by various algorithms for searching frequent patterns. (image, video, web, text, temporal, spatio-temporal)

Autonomous System & Software Agent

We address seamless interoperability between heterogeneous system and applications such as Internet of Things (IoT) for intelligent environments, prediction models for reasoning and recognition in smart home environment as well as classification of trajectory generation and control of miniature quadrotor used for aerial vehicles.

Optimization & Evolutionary Computing

We tend to find a better algorithm for solving various combinatorial problems is our main concern. We focus on improving meta-heuristic techniques for solving university timetabling and agricultural problems involving optimization in planting areas and crop systems.

Computational Linguistics & Semantic Web

We believe that this area is going to play a key role in advanced computing. We deal with the semantic knowledge representation of texts and focus on transforming the learned rules into a model reusable by computer programs. This will enable automation and seamless interoperation between systems in which human intervention is kept at a minimum.

Bioinformatics & System Biology

Bioinformatics focuses on genome annotation, which is marking the genes and other biological features on a DNA sequence. System biology emphasizes on the study of a whole organisms. We are interested to formulate a novel framework of biology as a system.

CURRENT RESEARCH PROJECT

- Assoc. Prof. Dr. Nurfadhlina Mohd Sharef, Interactive Machine Learning based on Deep Reinforcement Learning and Generative Adversarial Network Hybrid for Digital Twin. Sponsor: Air Force Office of Scientific Research (International); Duration: 29-Sep-21-28-Sep-24; Amount: RM245,000.00
- Assoc. Prof. Dr. Thinagaran, An Effective Edge-Based Lightweight Deep Learning Model for Multi-Resident Activity Recognition in Smart Home Environment. Sponsor: MOHE-FRGS (National); Duration: 1-Okt-23-30-Sep-26; Amount: RM164,348.00.
- Dr. Khairul Azhar Kasmiran, Hybridising Multi-task Transfer Learning and Interactive Learning for Accurate Adverse Drug Event Extraction from Clinical Notes. Sponsor: MOHE-FRGS (National); Duration: 1-Okt-23-30-Sep-26; Amount: RM128,500.00.
- Dr. Hazlina Hamdan, Effective Federated Learning for In-Hospital Mortality Prediction in Multi-Center ICU under Non-IID and Unbalanced EHRs Datasets. Sponsor: MOHE-FRGS (National); Duration: 7-Sep-21-6-Sep-24; Amount: RM95,000.00
- Dr. Nor Azura Husin, Multimodal Hierarchical Fusion Feature Model Incorporating Attention Mechanism with World Level Alignment. Sponsor: MOHE-FRGS (National); Duration: 1-Nov-20-31-Oct-23; Amount: RM115,500.00
- Assoc. Prof. Dr. Razali Yaakob, An Improved Feature Extraction and Multi-Label Multi-class Classification in Deep Learning for Pleural Tuberculosis Diagnosis. Sponsor: MOHE-FRGS (National); Duration: 1-Nov-20-31-Oct-23; Amount: RM109,707.00
- Dr. Noridayu Manshor, An improved Multi-Segmentation and Classification Algorithm using Deep Learning for Iris Recognition in Unconstrained Environments. Sponsor: UPM-Geran Putra; Duration: 1-Dec-20-30-Dec-23; Amount: RM50,000.00
- Dr. Raihani Mohamed, Improving Multiple Resident Activity, Recognition in Smart Home Environment. Sponsor: UPM-GP-IPM; Duration: 15-Jun-21-14-Jan-24; Amount: RM58,600.00
- Dr. Azree Shahrel Ahmad Nazri, Designing a Traceability System of Pesticide Residues in Fruits and Vegetables Along the Food Supply Chain. Sponsor: UPM- GP-IPS; Duration: 15-Jun-21-14-Jan-24; Amount: RM25,000.00

Entry Requirements

DOCTOR OF PHILOSOPHY

The applicant should possess:

- A Master's Degree or its equivalent in the field related to the field of PhD applied for AND candidates must have completed at least one (1) of their earlier Degrees (Master's or Bachelor's) in Computing or related to computing; or
- Bachelor's degree with a minimum CGPA 3.75 or equivalent to a First Class Bachelor's Degree and passed a rigorous internal assessment.

MASTER OF SCIENCE

- Bachelor's degree or equivalent, in computing, science and technology or related to computing, with a minimum CGPA 3.00; or
- Bachelor's degree or equivalent, in computing, science and technology or related to computing with a CGPA of 2.75 -2.99 may be considered based on a minimum of 3 years of work experience in the related field; or
- Bachelor's degree or equivalent, in computing, science and technology or related to computing with a CGPA of 2.000
 2.749 may be considered based on a minimum of 5 years of work experience in the related field.