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 Citizenship: Malaysian

Languages: Malay and English (excellent in speaking and writing for both languages)

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 September 2008 – November 2013: Senior Lecturer, FSKTM, UPM.

• 26 March 2002 – October 2008: Lecturer, FSKTM, UPM.

• 3 January 2000 – 26 March 2002: *Tutor,* FSKTM, UPM.

ADMINISTRATION APPOINTMENT

1 September 2021 - Present: Dean, FSKTM, UPM.

• 18 March 2020 – 30 August 2021: Deputy Dean, FSKTM, UPM.

December 2016 – November 2019: Head, Dept. Computer Science, FSKTM, UPM.

COURSES TAUGHT

I. UNDERGRADUATE

| No. | Code and Name of Courses | Credit Hour | Number of Student | Teaching Assessment (5.0) | Semester/Academic Year |
|-----|---|----------------|-------------------------|---------------------------------|---------------------------|
| 1. | SSK3101 COMPUTER PROGRAMMING II | | 17 | | SECOND 2021/2022 |
| 2. | SSK3118 DATA STRUCTURE AND ALGORITHMS | | 2 | | FIRST 2021/2022 |
| 3. | SSK3118 DATA STRUCTURE AND ALGORITHMS | | | | SECOND 2020/2021 |
| 4. | SSK3101 COMPUTER PROGRAMMING II | 4 | 24 | 4.96 | FIRST 2020/2021 |
| 5. | SSK3100 COMPUTER PROGRAMMING I | 4 | 25 | 4.79 | SECOND 2019/2020 |
| 6. | SSK3118 DATA STRUCTURE AND ALGORITHMS | 3 | 24 | 4.84 | FIRST 2019/2020 |
| 7. | SSK3100 COMPUTER PROGRAMMING I | 4 | 23 | | SECOND 2018/2019 |
| 8. | SSK3100 COMPUTER PROGRAMMING I | 4 | 18 | | FIRST 2018/2019 |
| 9. | SSK4618 (k1) | 3 | | | SECOND 2017/2018 |

| | ROBOTIC SYSTEM DEVELOPMENT | | | | |
|-----|--|---|----|------|------------------|
| 10. | SSK3117 DATA STRUCTURE | 3 | 30 | | FIRST 2017/2018 |
| 11. | SSK4618 (k1) ROBOTIC SYSTEM DEVELOPMENT | 3 | 11 | 4.85 | SECOND 2016/2017 |
| 12. | SSK3117 (K1) DATA STRUCTURE | 3 | 47 | 4.75 | FIRST 2016/2017 |
| 13. | SSK4618 (K1) ROBOTIC SYSTEM DEVELOPMENT | 3 | 20 | 4.59 | SECOND 2015/2016 |
| 14. | SSK3100(K8) COMPUTER PROGRAMMING I | 4 | 50 | 4.35 | FIRST 2015/2016 |
| 15. | SSK4602(K1) INTELLIGENT COMPUTING | 3 | 5 | | THIRD 2014/2015 |
| 16. | SSK4618 (K1) ROBOTIC SYSTEM DEVELOPMENT | 3 | 17 | 4.79 | SECOND 2014/2015 |
| 17. | SSK4602 (K1) INTELLIGENT COMPUTING | 3 | 30 | 4.68 | FIRST 2014/2015 |
| 18. | SSK 3100 (K1) COMPUTER PROGRAMMING I | 4 | 48 | 4.49 | SECOND 2012/2013 |
| 19. | SSK3117 (K6) DATA STRUCTURE | 3 | 28 | 4.53 | FIRST 2012/2013 |
| 20. | SSK 3101 (K5) COMPUTER PROGRAMMING II | 4 | 44 | 4.51 | SECOND 2011/2012 |
| 21. | SSK 3100 (K5) COMPUTER PROGRAMMING I | 4 | 46 | 4.32 | FIRST 2011/2012 |
| 22. | SSK 3100 (K1) COMPUTER PROGRAMMING I | 4 | 23 | 4.73 | SECOND 2010/11 |
| 23. | SSK 3100 (K2) COMPUTER PROGRAMMING I | 4 | 25 | 4.47 | SECOND 2010/11 |
| 24. | SSK 3100 (K8) COMPUTER PROGRAMMING I | 4 | 39 | 4.44 | FIRST 2010/11 |
| 25. | SSK 3100 (K9) COMPUTER PROGRAMMING I | 4 | 46 | 4.37 | FIRST 2010/11 |
| 26. | SAK 3100 (K1) COMPUTER PROGRAMMING I | 4 | 22 | 4.24 | SECOND 2009/10 |
| 27. | SAK 3101 (K4) COMPUTER PROGRAMMING II | 4 | 42 | 4.64 | SECOND 2009/10 |
| 28. | SSK 3100 (K4) COMPUTER PROGRAMMING I | 4 | 41 | 4.36 | FIRST 2009/10 |
| 29. | SAK 3100 (K1) COMPUTER PROGRAMMING I | 4 | 16 | 4.40 | SECOND 2008/09 |
| 30. | SAK 3101 (K4) COMPUTER PROGRAMMING II | 4 | 39 | 4.67 | SECOND 2008/09 |
| 31. | SAK 3100 (K4) | 4 | 41 | 4.60 | FIRST 2008/09 |

| | COMPUTER PROGRAMMING I | | | | |
|-----|--|---|----|------|----------------|
| 32. | SAK 3100 (K5) COMPUTER PROGRAMMING I | 4 | 33 | 4.47 | FIRST 2008/09 |
| 33. | SAK 3100 (K1) COMPUTER PROGRAMMING I | 4 | 43 | 4.37 | SECOND 2007/08 |
| 34. | SAK 3101 (K4) COMPUTER PROGRAMMING II | 4 | 38 | 4.42 | SECOND 2007/08 |
| 35. | SAK 3100 (K4) COMPUTER PROGRAMMING I | 4 | 33 | 4.20 | FIRST 2007/08 |
| 36. | SAK 3100 (K5) COMPUTER PROGRAMMING I | 4 | 74 | 3.92 | FIRST 2007/08 |
| 37. | SAK 3100 (K1) COMPUTER PROGRAMMING I | 4 | 72 | 4.16 | SECOND 2006/07 |
| 38. | SAK 3101 (K4) COMPUTER PROGRAMMING II | 4 | 33 | 4.30 | SECOND 2006/07 |
| 39. | SAK5102 ADVANCED OBJECT-ORIENTED PROGRAMMING | 3 | | | MEI 2001/2002 |
| 40. | SAK 3309 OPERATING SYSTEM | 3 | | | NOV 2001/2002 |
| 41. | SAK3101 INTRODUCTION TO COMPUTER PROGRAMMING II | 4 | | | MEI 2001/2002 |
| 42. | SAK 3101 INTRODUCTION TO COMPUTER PROGRAMMING II | 4 | | | NOV 2001/2002 |
| 43. | SAK 3101 INTRODUCTION TO COMPUTER PROGRAMMING II | 4 | | | MEI 2000/2001 |
| 44. | SAK 3107 DATA STRUCTURES | 3 | | | NOV 1999/2000 |
| 45. | SAK 1107 INTRODUCTION TO DATA STRUCTURES | 3 | | | NOV 1999/2000 |
| 46. | SAK 2206 INTERNET PROGRAMMING | 3 | | | MEI 1999/2000 |
| 47. | SAK 1107 INTRODUCTION TO DATA STRUCTURES | 3 | | | MEI 1999/2000 |

II. POSTGRADUATE

| No. | Code of Courses | Credit Hour | Number of Students | Teaching Assessment / 5.00 | Semester/Academic Year |
|-----|--|----------------|-----------------------|----------------------------------|---------------------------|
| 1. | SSK5117 ADVANCED DATA STRUCTURE | 3 | | | SECOND 2019/2020 |
| 2. | SSK5117 ADVANCED DATA STRUCTURE | 3 | | | SECOND 2018/2019 |
| 3. | SSK5117 (K1) ADVANCED DATA STRUCTURE | 3 | 26 | 4.65 | SECOND 2015/2016 |
| 4. | SSK5117 (K1) ADVANCED DATA STRUCTURE | 3 | 17 | | FIRST 2015/2016 |
| 5. | SSK5117 (K2) ADVANCED DATA STRUCTURE | 3 | 17 | | SECOND 2014/2015 |
| 6. | SSK5117 (K2) ADVANCED DATA STRUCTURE | 3 | 17 | | FIRST 2014/2015 |
| 7. | SSK5117 (K2) ADVANCED DATA STRUCTURE | 3 | 33 | | SECOND 2012/2013 |

ADMINISTRATIVE RESPONSIBILITIES

| No. | Position | Department/Facu Ity/Other Institution | Year |
|-----|--|---|---------|
| 1. | Dean | Faculty | 2021- |
| | | | Present |
| 2. | Deputy Dean (Development, Industry and Community | Faculty | 2020 - |
| | Relations) | | 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 | University | 2012, |
| | Collaboration Program) | | 2013 |
| 8. | Coordinator SSK3117 | Faculty | 2012 |
| 9. | Coordinator for SSK3101 (UPM-IPTS Academic | University | 2012, |
| | Collaboration Program) | | 2009, |
| | | | 2007 |
| 10. | Coordinator for SAK1111 (UPM-IPTS Academic | University | 2011, |
| | Collaboration Program) | | 2010, |
| | | | 2009, |
| | | | 2008, |
| | | | 2007 |
| 11. | Coordinator for SSK3100 (Computer Programming I) | Faculty | 2011, |
| | | | 2010, |
| | | | 2007 |
| 7 | Coordinator for SSK3100 (UPM-IPTS Academic | University | 2011, |
| | Collaboration Program) | | 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

| No | Project No. | Project Title | Year | Source of fund | Status | Amount (RM) |
|----|------------------------------------|--|---------------|----------------|---------|----------------|
| 1. | FRGS/1/2020/I CT02/UPM/02/ S | An improved Feature Extraction and Multi- Label Multi- Class Classification in | 2020- 2023 | FRGS | Ongoing | 109,707 |

| | | Deep Learning for Pleural | | | | |
|----|---------------|---------------------------|-------|---------|-------------|--------|
| 2. | GP- | Tuberculosis Diagnosis | 2018- | GP | Onzaina | 25.000 |
| ۷. | _ | Enhanced Fall Detection | | GP | Ongoing | 25,000 |
| | IPS/2018/9644 | Framework For Smart | 2020 | | | |
| 3. | 700 | Home Environment | 2010 | CD | Camaralatad | 42.000 |
| 3. | GP/2018/9596 | Multi-Attribute Decision | 2018- | GP | Completed | 43,000 |
| | 100 | Making Using Fuzzy | 2020 | | | |
| 4 | 00.03.43 | System and Z-Numbers | 2042 | FDCC | 6 | 72.500 |
| 4. | 08-02-13- | An Ensemble of | 2013- | FRGS | Completed | 72,500 |
| | 1367FR | Classifiers for Improving | 2016 | | | |
| | | Multi-View Human | | | | |
| _ | 02.04.04 | Action Recognition | 2042 | C | 6 | 70.000 |
| 5. | 02-01-04- | Evolutionary | 2012- | Science | Completed | 79,000 |
| | SF1361 | Reinforcement Learning | 2014 | Fund | | |
| | | For Flexible Protein | | | | |
| | 05.04.40 | Docking | 2010 | 51100 | | 25.222 |
| 6. | 05-04-10- | An Integration of Best | 2010- | RUGS | Completed | 25,000 |
| | 1008RU | Population and Social | 2012 | | | |
| | | Learning in Tic-Tac-Toe | | | | |
| 7. | 02-10-07- | An Investigation on | 2007- | FRGS | Completed | 42,000 |
| | 316FR | Learning to Play the | 2009 | | | |
| | | Game of Go Without Any | | | | |
| | | Knowledge | | | | |
| 8. | | The used of Fuzzy Logic | 1999- | Short | Completed | |
| | | and Its Integration with | 2000 | Term | | |
| | | Neural Network for | | Grant | | |
| | | Colour | | | | |

B) As Project Member

| No | Project No. | Project Title | Year | Source of fund | Status | Amount (RM) |
|----|-------------|--|---------------|----------------|---------|----------------|
| 1. | 6380101 | Interactive Machine Learning based on Deep Reinforcement Learning and Generative Adversarial Network Hybrid for Digital Twin | 2021- 2024 | AFOSR | Ongoing | 245,000 |
| 2. | 5540532 | Effective Federated Learning for In-hospital Mortality Prediction in Multi-center ICU under Non-IID and Unbalanced EHRs Datasets | 2021- 2024 | FRGS | Ongoing | 95,000 |
| 3. | 6233248 | THE DEVELOPMENT OF AN EVIDENCE-BASED PROJECT REPORTING | 2021- 2023 | | Ongoing | 55,000 |

| | | COLUTION LICINIC | | | | |
|----------|---------|---------------------------|-------|--------|-----------|---------|
| | | SOLUTION USING | | | | |
| | | IMAGING PROCESSING | | | | |
| | | AND ARTIFICIAL | | | | |
| | | INTELLIGENCE | | | | |
| 4. | 5524829 | Establishing Theory for | 2015- | FRGS | Ongoing | 81,400 |
| | | Cloud Platform Efficiency | 2018 | | | |
| | | Measure Based on SLA | | | | |
| | | (Service Level | | | | |
| | | Agreement) | | | | |
| | | Management and | | | | |
| | | Enforcement | | | | |
| 5. | 5540447 | Multimodal Hierarchical | 2020- | FRGS | Ongoing | 115,500 |
| | | Fusion Feature Model In | 2023 | | | , |
| | | Corporating Attention | | | | |
| | | Mechanism With World | | | | |
| | | Level Alignment | | | | |
| 6. | 9682000 | Multimodal Fusion | 2019- | GP-IPS | Ongoing | 20,000 |
| 0. | 3002000 | Model to Predict Mental | 2023 | 0 3 | Cingoling | 20,000 |
| | | Illness from Social Media | 2023 | | | |
| | | Platform | | | | |
| 7. | 9653000 | Semantic Interoperability | 2018- | GP-IPS | Ongoing | 25,000 |
| ٧. | 9033000 | Framework For | 2018- | GF-IF3 | Origonia | 23,000 |
| | | | 2021 | | | |
| | | Heterogeneous Internet | | | | |
| 0 | 6200046 | of Things (IoT) Objects | 2010 | 40400 | 0 | 240.000 |
| 8. | 6380016 | Deep Recurrent Q- | 2018- | AOARD | Ongoing | 240,000 |
| | | Network Approach for | 2020 | | | |
| | | Multi Objective Markov | | | | |
| | | Decision Process in | | | | |
| | | Partially Observable | | | | |
| | | Environment | | | | |
| 9. | 9595800 | Social Media Influencer | 2018- | GP- | Ongoing | 31,500 |
| | | Detection using Social | 2020 | Putra | | |
| | | Network Analysis (SNA) | | | | |
| 10. | 9621700 | Pragmatics-based | 2018- | GP- | Ongoing | 50,000 |
| | | Usability Model (PUM) | 2019 | Putra | | |
| | | for E-learning in | | | | |
| | | Educating Farmers on | | | | |
| | | Adopting Agricultural | | | | |
| | | Innovation and | | | | |
| | | Technology | | | | |
| 11. | 9323701 | Development and | 2016- | GIPP | On-going | 10,000 |
| | | Implementation of e- | 2018 | | | ' |
| | | Gaming fo Veterinary | | | | |
| | | Oncology | | | | |
| 12. | 9569000 | Feature Representation | 2017- | GP- | Ongoing | 45,000 |
| | | Technique to Recognize | 2021 | Putra | 3838 | .5,555 |
| <u> </u> | | 1 confide to necognize | 2021 | 1 444 | 1 | |

| | | Multi-Class Food Categories | | | | |
|-----|-----------------------------|--|---------------|--------------|---------------|---------|
| 13. | 9549700 | Enhanced spatio- temporal event model for Internet of Things (IoT) service provisioning | 2017- 2020 | GP- IMPAK | Ongoing | 122,000 |
| 14. | 5524960 | Threshold-based Probabilistic Interval Skyline Queries for Efficient Skyline Computation on Big Data | 2016- 2018 | FRGS | Ongoing | 61,200 |
| 15. | GP- IBT/2013/9410 000 | Efficient Computation of Skyline Queries in Uncertain and Incomplete Autonomous Web Databases | 2013- 2015 | GP | Complete d | 88,620 |
| 16. | GP- IPM/2013/942 4800 | Extending and Improving Autotuning through Domain-Specific Parameters and User Feedback | 2014- 2015 | GP | Complete d | 50,000 |
| 17. | GP- IBT/2013/9420 200 | Middleware Ontology Structure and Validation Technique for Polymerase Chain Reaction (PCR) Analyzer Data Collection Activites | 2014- 2015 | GP | Complete d | 66,800 |
| 18. | 01-04-11- 1472RU | Diagnosing Severity Levels Of Basal Stem Rot (BSR) Disease At Oil Palm Plantation Using Hyperspectral Remote Sensing | 2012- 2013 | RUGS | Complete d | |
| 19. | 03-02-12- 2068RU | Development Of Expert System For Urban Tree Management: UPM- Mutis Ver. 2.0 | 2012- 2014 | RUGS | Ongoing | |
| 20. | 05-01-11- 1260RU | A Hybrid Model for Predicting Dengue Outbreak | 2011- 2013 | RUGS | Complete d | |
| 21. | 05-01-11- 1253RU | Skyline Preference Evaluation Models for Uncertain and Incomplete Multidimensional | 2011- 2013 | RUGS | Complete d | 13,500 |

| | | Database | | | | |
|-----|-----------|-------------------------|-------|------|----------|--|
| 22. | 05-02-07- | Object-oriented Program | 2008- | RUGS | Complete | |
| | 0361RU | Understanding and | 2010 | | d | |
| | | Debugging System Based | | | | |
| | | on the Plan Base | | | | |
| | | Approach | | | | |

INTELLECTUAL PROPERTY

I. COPYRIGHT

| No. | Title of Copyright | Role (Main/Co- Inventor) | Year | Category |
|-----|------------------------------|-----------------------------|------|----------|
| 1. | InGNeoSA (TM2018018274) | Co-Inventor | 2020 | Software |
| 2. | Recycle Bingo | Main Inventor | 2012 | Software |
| 3. | Hooray Hubby (Software Game) | Co-Inventor | 2012 | Software |
| 4. | Be Mum | Co-Inventor | 2012 | Software |

SUPERVISION OF STUDENTS

| Program Level | Name of Students and Title of Thesis/Project | Main Supervisor/ Co- supervisor | Status (Completed/ Ongoing) | Year Graduated |
|------------------|--|--|-----------------------------------|-------------------|
| PhD | Al Shahad Huda Fawzi Abd Alwahab Sina Abdipoor "A Hybrid Evolutionary Method To Solve The University Course Timetabling Problem" | Main Supervisor | Ongoing | |
| | Syeda Syaizadi Miraj "Artificial Intelligence In Diagnosing Tuberculosis" | | Ongoing | |

| | 1 | | 2021 |
|--|------------|-----------|------|
| Rawia Tahrir Salih "Unifying And Weighting | | Completed | 2021 |
| , , | | | |
| Methodology For The Evaluation | | | |
| Criteria Of Many-Objective | | | |
| Optimization Competitive Algorithms | | | |
| Based On Fuzzy Delphi And Fuzzy- | | | |
| Weighted Zero- Inconsistency | | | |
| Methods" | _ | | |
| Saeed Bahrami | | Completed | 2021 |
| "Performance Assessment Decisions | | | |
| Using Educational Data Classification" | | | |
| Rajina Bt. M A Raj Mohamed | | Ongoing | |
| "Intelligent Classification of Food | | | |
| Aroma in Electronic Nose Using Fuzzy | | | |
| Logic" | | | |
| Imas Sukaesih Sitanggang |] | Completed | 2013 |
| "Modeling Peatland Fires Risk using | | | |
| Spatial Decision Tree" | | | |
| Erzam Marlisah | 1 | Completed | 2017 |
| "Evolutionary Neural Network with | | • | |
| Reinforcement Learning Framework | | | |
| Using Q-Learning Algorithm for | | | |
| Flexible Protein Docking" | | | |
| Sarmad Makki Mohammed Garib | 1 | Completed | 2019 |
| "Multi-Objective Document | | , | |
| Clustering Based on Evolutionary | | | |
| Computation" | | | |
| Alihossein Aryanfar | 1 | Completed | 2016 |
| "Multi-Variant Human Action | | | |
| Recognition" | | | |
| Agbolade Olalekan Opeoluwa | | Ongoing | |
| "The Novel Convoluted Dna- | | 01.80.1.8 | |
| Landmark Morphometrics | | | |
| Framework For 3d Face Recognition" | | | |
| Majid Torabi | - | Completed | 2020 |
| "Hybrid Evolutionary Class-based | | completed | 2020 |
| Feature Subset Selection and | | | |
| Ensemble technique for Intrusion | Co- | | |
| Detection System" | Supervisor | | |
| Lawal Mohammed Ma'aruf | Jupervisor | Completed | 2021 |
| "An Efficient Framework For | | Completed | 2021 |
| Processing Constrained Skyline Query | | | |
| Over Uncertain Data" | | | |
| | - | Ongoine | |
| Alwatben Batoul Rashed A | | Ongoing | |
| "Modified Archive Update | | | |
| Mechanism Of Particle Swarm | | | |

| Optimization (Pso) For Multi- Objective Optimization In-Fuzzy | | |
|--|-----------|------|
| Classification And Clustering" | | |
| Mohammed Ali Mohammed | Ongoing | |
| Alkhawlani | 3.180.1.8 | |
| "Improving The Memory Of Deep | | |
| Learning Based Question Answering | | |
| (QA)" | | |
| Salimeh Malekpourheydari | Ongoing | |
| "A Hybrid Flood Forecasting Model" | | |
| Mahsa Aramesh | Ongoing | |
| "Big Data Unsupervised Feature | | |
| Selection" | | |
| Zuhaira Muhammad Zain | Completed | 2012 |
| "Weight Elicitation for Multi-Criteria | | |
| Decision Making In Blog Quality | | |
| Evaluation" | | |
| Ghada Hassan Obaid Elshaygi | Ongoing | - |
| "Mobile Agent Based Framework For | | |
| Data Integration" | | |
| Mubina Pathan | Completed | 2012 |
| "Mapping, Monitoring and | | |
| Quantifying Oil Palm Trees Through | | |
| Hyperspectral Airborne Remote | | |
| Sensing" | - | |
| Nor Azura Husin | Completed | |
| "A Hybrid Model using Evolutionary | | |
| Computation and Neural Network for PredictingDengue Outbreak" | | |
| PredictingDengue Outbreak | | |
| Jonathan Teng Yi Chuon | Ongoing | |
| "Development of UPM-MUTIS for | | |
| Urban Tree Management Using | | |
| Expert System" | | |
| Nor Mas Aina Md Bohari | Ongoing | |
| "Recognition and Classification of | Ongoing | |
| Herbs Plant Diseases Via Hierarchical | | |
| Dynamic Neural Network After Image | | |
| Noise Removal using Kernel | | |
| Regression Framework" | | |
| Nurul Husna Mohd Saad | Completed | |
| "Skyline Query Processing on | | |
| Uncertain Data" | | |
| | | |

| Master | Athimahendran A/L Paneerselvam "Enhanced Fall Detection Framework For Smart Home Environment" | | Ongoing | |
|--------|---|--------------------|-----------|------|
| | Kwan Wei Peng "Enhancing Indoor Positioning Service For Location Based Internet Of Things (IoT)" | Main Supervisor | Ongoing | |
| | Sitti Syarah Maharani "Selection of Students for University Entry Using Neural Network" | | Completed | 2015 |
| | Mohammad Nasrollah Bin Rozami "Adaptation Human Factor for Enhance Enforcement Efficiency Based on Service Level Agreement (SLA)" | | Completed | |
| | Tan Lai Yee "Activity Recognition for Activities of Daily Living (ADL) of Elderly in Smart Home" | | Ongoing | |
| | Kavitha Jaganathan "Detecting Action From Motion Capture Data using Hidden Markov Model" | | Completed | 2016 |
| | Rageed Husain Hasan Al-Hashme "Integrating Heterogenous Database by Ontology Mapping" | | Ongoing | |
| | Yaser Mohammad Ali Karasneh "Schema Matching and Database Integration for Biomedical Schema" | Co- Supervisor | Completed | 2010 |
| | Ahmad Izzuddin Abu Bakar "A Middleware Framework for the Integration of Heterogeneous Hardware and Software" | | Ongoing | |
| | Lee Chiw Yi "Reconciling Semantic Conflicts in Integrating Biomedical Databases" | | Ongoing | |
| | Fahrul Hakim Ayob "Sistem Penjadualan Waktu Kuliah Fakulti Di Universiti Menggunakan Teknik Algoritma Genetik" | | Completed | 2000 |
| | Norhayati Abdullah "Personal Identification by Keystroke Pattern for Login Security" | | Completed | 2001 |

| | | , - | | , |
|----------|---|------------|-----------|------|
| | Abdul Aziz Al-Naqeeb | | Completed | 2002 |
| | "Colour Recognition Using Back- | | | |
| | propagation Neural Network and RGB | | | |
| | Values" | | | |
| Bachelor | Chan Meng Yee | Main | Completed | 2007 |
| | "E-menu Restaurant System" | Supervisor | | |
| | Yap Yee Ping | Main | Completed | 2007 |
| | "Web Based Vegetable Growing | Supervisor | | |
| | Expert System" | | | |
| | Hon Sook Yee | Main | Completed | 2007 |
| | "Hotel Online Reservation In | Supervisor | | |
| | Malaysia" | | | |
| | Hon Chee Siong | Main | Completed | 2007 |
| | "Management System" | Supervisor | | |
| | Fauziyatul Sheila Yusof | Main | Completed | 2007 |
| | "Sistem Sokongan Keputusan Bagi | Supervisor | | |
| | Tanaman | | | |
| | Buah-Buahan" | | | |
| | Noor Azimah Dahlan | Main | Completed | 2007 |
| | "Sistem Maklumat Pengurusan Bagi | Supervisor | | |
| | Sayuran Menggunakan Kaedah | | | |
| | Hidroponik" | | | |
| | Kevin Charles Jonathan | Main | Completed | 2007 |
| | "Penempahan Pakej Pelancongan" | Supervisor | | |
| | Raja Feninferina Raja Azman | Main | Completed | 2007 |
| | "Car Workshop System" | Supervisor | | |
| | Leong Jun Wen | Main | Completed | 2008 |
| | "The Trael Butler" | Supervisor | | |
| | Loo loon Huya | N/ai-a | Completed | 2000 |
| | Lee Jean Hwa | Main | Completed | 2008 |
| | "Starzone Boutique Salon" | Supervisor | Completed | 2000 |
| | Calvin Chiew Wei Chiang | Main | Completed | 2008 |
| | "The Inventory System" | Supervisor | Commisted | 2000 |
| | Leonard Herbert Munang | Main | Completed | 2008 |
| | "Vehicle Fuel Usage Monitoring | Supervisor | | |
| | System" | N/c:- | Completed | 2000 |
| | Tan Pei Shan "Panking Desicion System" | Main | Completed | 2008 |
| | "Banking Decision System" Imran Md Jelas | Supervisor | Completed | 2000 |
| | | Main | Completed | 2008 |
| | "Cattle Management System" | Supervisor | Completed | 2008 |
| | Mhd Azmi Bin Zulfikar "Sudoku Solving System" | Main | Completed | 2008 |
| | "Sudoku Solving System" | Supervisor | Completed | 2000 |
| | Yap Chek Wei | Main | Completed | 2009 |
| | "Personal Resume Builder" | Supervisor | Completed | 2000 |
| | Ng Suan Leng "Online Eashion Store" | Main | Completed | 2009 |
| | "Online Fashion Store" | Supervisor | | |

| T | | | |
|--------------------------------------|---|---|---|
| | | Completed | 2009 |
| "e-Counselling" | Supervisor | | |
| Ng Pei Ling | Main | Completed | 2010 |
| "Research Grant Online System: | Supervisor | | |
| Monitoring, Evaluation and | | | |
| Implementation of Research Grant" | | | |
| Yap Wei Leng | Main | Completed | 2010 |
| "Research Grant Online System: | Supervisor | | |
| Generation of Research Grant" | | | |
| Loh Kian Leong | Main | Completed | 2011 |
| "Soccer Robotic: Ruled Based" | Supervisor | | |
| Ang Yip Keong | Main | Completed | 2011 |
| "Ball Recognition of AMiR Robot by | Supervisor | | |
| Using Artificial Neural Network" | | | |
| Tan Kean Nian | Main | Completed | 2013 |
| "Calorie Counter and Social Dieting: | Supervisor | | |
| APEPIC Diet (Social Networking | | | |
| Module)" | | | |
| Chai Kit Soon | Main | Completed | 2013 |
| "Calorie Counter and Social Dieting: | Supervisor | · | |
| APEPIC Diet (Calorie Counter | | | |
| Module)" | | | |
| H'ng Sheng Yang | Main | Completed | 2013 |
| "Calorie Counter and Social Dieting: | Supervisor | • | |
| APEPIC Diet (Meal Plan Module)" | | | |
| | "Research Grant Online System: Monitoring, Evaluation and Implementation of Research Grant" Yap Wei Leng "Research Grant Online System: Generation of Research Grant" Loh Kian Leong "Soccer Robotic: Ruled Based" Ang Yip Keong "Ball Recognition of AMiR Robot by Using Artificial Neural Network" Tan Kean Nian "Calorie Counter and Social Dieting: APEPIC Diet (Social Networking Module)" Chai Kit Soon "Calorie Counter and Social Dieting: APEPIC Diet (Calorie Counter Module)" H'ng Sheng Yang "Calorie Counter and Social Dieting: | "e-Counselling"SupervisorNg Pei LingMain"Research Grant Online System:SupervisorMonitoring, Evaluation and Implementation of Research Grant"MainYap Wei LengMain"Research Grant Online System: Generation of Research Grant"SupervisorLoh Kian LeongMain"Soccer Robotic: Ruled Based"SupervisorAng Yip KeongMain"Ball Recognition of AMiR Robot by Using Artificial Neural Network"SupervisorTan Kean NianMain"Calorie Counter and Social Dieting: APEPIC Diet (Social Networking Module)"SupervisorChai Kit SoonMain"Calorie Counter and Social Dieting: APEPIC Diet (Calorie Counter Module)"MainH'ng Sheng Yang "Calorie Counter and Social Dieting:Main"Calorie Counter and Social Dieting:Supervisor | "e-Counselling"SupervisorNg Pei LingMainCompleted"Research Grant Online System:SupervisorMonitoring, Evaluation and Implementation of Research Grant"MainCompletedYap Wei LengMainCompleted"Research Grant Online System: Generation of Research Grant"SupervisorLoh Kian LeongMainCompleted"Soccer Robotic: Ruled Based"SupervisorAng Yip KeongMainCompleted"Ball Recognition of AMiR Robot by Using Artificial Neural Network"SupervisorMainCompletedTan Kean NianMainCompleted"Calorie Counter and Social Dieting: APEPIC Diet (Social Networking Module)"SupervisorMainCompleted"Calorie Counter and Social Dieting: APEPIC Diet (Calorie Counter Module)"SupervisorMainCompleted"Calorie Counter and Social Dieting: Module)"MainCompleted"Calorie Counter and Social Dieting:Supervisor |

NUMBER OF STUDENTS GRADUATED

| No. | Level | Total |
|-----|--------|-------|
| 1. | PhD | 6 |
| 2. | Master | 1 |

H-Index: 10 (Scopus)

PUBLICATIONS

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- 9. 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.
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- 12. 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.

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- 57. Imas Sukaesih Sitanggang, **Razali Yaakob**, Norwati Mustapha, and Ahmad Ainuddin Nuruddin (2012). Predictive Models for Hotspots Occurrence using Decision Tree Algorithms and Logistic Regression. Journal of Applied Sciences Vol 13 Issue 2. DOI: 10.3923/jas.2013.252.261. Journal indexed by Thomson ISI, ISI Web of Knowledge, SCOPUS. http://scialert.net/jindex.php?issn=1812-5654
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III. CONFERENCE PROCEEDINGS

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- Olalekan Agbolade, Azree Shahrel Ahmad Nazri, Razali Yaakob, Abdul Azim Abd Ghani, Yoke Kqueen Cheah (2019), Landmark-based Multi-Points Warping Approach to 3D Facial Expression Recognition in Human, 2019 1st International Conference on Artificial Intelligence and Data Sciences (AiDAS 2019), 19 September 2019, Ipoh, Perak.
- Olalekan Agbolade, Azree Shahrel Ahmad Nazri, Razali Yaakob, Abdul Azim Abd Ghani, Yoke Kqueen Cheah (2019), 3D Homologous Multi-Points Warping Application to Sexual Dimorphism in Human Face, 2019 3rd International Conference on Imaging, Signal Processing and Communication (ICISPC2019), 27-29 July 2019, Singapore.
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RECOGNITION

I. THESES EXAMINATION

A. External Examiner

Doctor of Philosophy:

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- 2. Anas W.A. Arram, Bird Mating Optimizer for Combinatorial Optimization Problem, Universiti Kebangsaan Malaysia, Selangor, 2017.
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B. Internal Examiner

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- 7. Jagede Abayomi Joshua, A Hybrid Scheme for Biometric Authentication and Template Protection, Faculty of Computer Science and Information Technology, UPM, 2016.
- 8. Salisu Muhammad Sani, Fuzzy Model for Student's Knowledge Performance Prediction, Faculty of Computer Science and Information Technology, UPM, 2016.

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- Hamedreza Khataee Gavgani, Modeling of Static and Dynamic Component of Bio-Robotic Systems, Faculty of Computer Science and Information Technology, UPM,2012
- Maryam Golchin, Shadow Detection using Color and Edge Information for Colorless and Edgeless Images, Faculty of Computer Science and Information Technology, UPM,2012.
- Ummu Sulaim Sazaly, An Algorithm to Produce Incompact Structure of MCCTree in Answering XML Keyword Query, Faculty of Computer Science and Information Technology, UPM, 2012.
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II. EDITORIAL BOARD/TECHNICAL EDITOR/REVIEWER

Journal

- 1. Reviewer, Journal of Science and Technology, for paper entitled "Applying Genetic Algorithms to Optimization Second-Order Bandpass MGMFB filter", 2020.
- 2. Reviewer, Journal of Science and Technology, for paper entitled "Applying Genetic Algorithms to Optimization Second-Order Bandpass MGMFB filter", 2020.
- 3. Reviewer, Informatics in Medicine Unlocked, for paper entitled "Disease Detection from Lung X-ray Images based on Hybrid Deep Learning", 2020.
- 4. Reviewer, Journal of Science and Technology, for paper entitled "Hybrid Discrete Hopfield Neural Network Based Modified Clonal Selection Algorithm For VLSI Verification", 2019.

- 5. Reviewer, Journal of Science and Technology, for paper entitled "An Intelligent Reliability Assessment Technique for Bipolar Junction Transistor using Artificial Techniques", 2018.
- 6. Reviewer, Jordanian Journal of Computers and Information Technology, "B-Hill Climbing Technique For Improving The Text document Clustering", 2017.
- 7. Reviewer, Journal of Science and Technology, for paper entitled "E-Mail Classification By Using artificial Neural Network And Genetic Algorithm", 2017.
- 8. Reviewer, IEEE Transactions on Evolutionary Computation, for paper entitled "Optimization of Cluster-based Evolutionary Undersampling for the Artificial Neural Networks in Corporate Bankcruptcy Prediction", 2015.
- 9. Reviewer, IEEE Transactions on Evolutionary Computation, for paper entitled "Emergent Task Decomposition for Neuroevolution in Supervised Learning", 2014.
- 10.Reviewer, International Journal of Advancements in Computing Technology, for paper entitled "Scatter Search Metaheuristic for Post-Enrolment Course Timetabling Problems: A Review", 2013.
- 11. Reviewer, Pertanika Journals, for paper entitled "New Semi-Blind Channel Estimation in Mimo Based on Second Order Statistics", 2010.
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- 1. Reviewer for The 3rd International Conference on Software Engineering and Information Management (ICSIM 2020), 2020.
- 2. Reviewer for the 5th International Conference on Information, Communication & Computing Technology (ICICCT-2020), 2020.
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- 4. Reviewer for International Conference on Interdisciplinary Computer Science and Engineering (ICICSE2020), 2020.
- 5. Reviewer for International Conference on Innovation of Computer Science and Engineering (ICICSE2018), 2018.
- 6. Reviewer for The 3rd National Postgraduate Conference 2009 (NPC2009), Universiti Teknologi Petronas, 2009.
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- 8. Reviewer for the 3rd Conference on Data Mining and Optimization 2011 (DMO'11), Universiti Kebangsaan Malaysia, 2011.
- 9. Reviewer for International Conference on Information Retrieval and Knowledge Management (CAMP'12), Universiti Putra Malaysia, 2012.
- 10. Reviewer for The 2nd International Visual Informatics Conference (IVIC'11), Universiti Kebangsaan Malaysia, 2011.
- 11. Reviewer for The 5th International Conference on IT and Multimedia, UNITEN, 2011.
- 12. Reviewer for The 7th International Conference on Robotic, Vision, Signal Processing, and Power Applications (RoViSP2009), 2009.

Research Projects

1. Progress and Final Report Review Committee, for projects:

- "A Linear-Temporal Formal Language Context-Sensitive Usage Control Policies"
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III. PROFESSIONAL MEMBERSHIPS

- 1. ALUMNI Universiti Putra Malaysia, since 1999.
- 2. ALUMNI University of Nottingham, since 2008.
- 3. IEEE Malaysia Section, since 2021.
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IV. PROFESSIONAL SERVICES

- 1. Universiti Evaluator Panel, Universiti Putra Malaysia, 2018-2020.
- 2. UMCCed Studies Committee Members (Curricullum Review), Universiti Malaya, 2017.
- 3. Evaluator Panel for Program Studies Audit and Evaluation, Universiti Kebangsaan Malaysia, 2018.
- 4. Book Manuscript Evaluator, Universiti Kebangsaan Malaysia, 2020.

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