

CURRICULUM VITAE

PROF. IR. DR. SITI ANOM AHMAD

CEng, MIET, SMIEEE, MIEM, MySET

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Professor

Department of Electrical and Electronic Eng.,
Faculty of Engineering
Universiti Putra Malaysia
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Academic Qualification

2006 – 2009	Ph. D (Electronic Engineering), <i>University of Southampton, United Kingdom.</i>
2003 – 2004	MSc in Microelectronics System Design <i>University of Southampton, United Kingdom.</i>
1995 – 1998	B. Eng (Electronic and Computer Engineering) <i>Universiti Putra Malaysia, Selangor, Malaysia.</i>
1993 – 1995	Science Physic Matriculation <i>Universiti Putra Malaysia, Selangor, Malaysia.</i>
1988 - 1992	Sijil Pelajaran Malaysia (1992) Sijil Rendah Pelajaran (1990) <i>Sekolah Sultan Mahmud, Kuala Terengganu, Terengganu, Malaysia.</i>

Academic and Relevant Appointments

Jun 2021 – Present	Professor Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia
Jan2024 – Present	Head Control System and Signal Processing Research Centre Faculty of Engineering, Universiti Putra Malaysia
1 st Apr 2020 – 31 st Mac 2023	Director Malaysian Research Institute on Ageing (MyAgeing™) Universiti Putra Malaysia
1 st Mac 2017 – 31 Mac 2020	Deputy Director Malaysian Research Institute on Ageing (MyAgeing™) Universiti Putra Malaysia

1 st Feb 2016 – Present	Associate Professor, Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia
15 Sept 2009 – 31 st Jan 2016	Senior Lecturer, Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia
April – October 2015	Visiting Lecturer, University of Alabama, USA
20 April 2011 – 19 April 2012	Postdoctoral Officer, Department of Biomedical Engineering, Faculty of Engineering, University of Malaya
Oct 2006 – May 2009	Teaching Assistant Fac. of Engineering, Science and Mathematics University of Southampton, UK
Oct 2000 – Sept 2009	Tutor Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia
June 1999 - Sept 2000	Tutor Pusat Teknologi dan Pengurusan Lanjutan, Shah Alam, Selangor

Professional Membership

Professional Engineer (PEng), Board of Engineers Malaysia (BEM)

Chartered Engineering (CEng), Institute of Engineering and Technology (IET), UK

Senior Member, Institute of Electrical and Electronic Engineer (IEEE)

Member, IEEE Engineering Medical and Biological Society (EMBS), Circuit and System Society (CAS), Control System Society (CSS)

Member, Institute of Engineering and Technology (IET), UK

Member, Institute of Engineers Malaysia (IEM)

Life Member, Malaysian Society for Engineering and Technology (MySET)

Member, Malaysian Society of Automatic Control Engineers (MACE)

Registered with Board of Engineers Malaysia (BEM)

Area of Specialization and Research interest

- Biomedical engineering
- Control system design
- Artificial Intelligence
- Signal Processing
- Gerontechnology

Language Proficiency

Language

Written

Spoken

English	Very Good	Very Good
Bahasa Melayu	Excellent	Excellent

Administrative Duties and Other Responsibilities

Head, Control System & Signal Processing Research Center, UPM (2024 – Present)
 Senate Member, Universiti Putra Malaysia (2020 – 2023)
 Chair, Jawatankuasa Pengurusan Institut, Malaysian Research Institute on Ageing, UPM (2020 - 2023)
 Member, Jawatankuasa Jaringan Industri Masyarakat, Universiti Putra Malaysia (2017 – 2020)
 Member, Jawatankuasa Kecil Penyelidikan Universiti, Universiti Putra Malaysia (2017 – 2020)
 Member, Jawatankuasa Kecil Pengambilan Siswazah, Universiti Putra Malaysia (2017 – 2018)
 Member, Jawatankuasa Pengajian Siswazah, Universiti Putra Malaysia (2017 - 2020)
 Member, Jawatankuasa Pengurusan Institut, Malaysian Research Institute on Ageing, UPM (2017 – 2020)
 Chair, Risk Management Committee, Malaysian Research Institute on Ageing, UPM (2017 – Present)
 Member, Research Evaluator Committee, Malaysian Research Institute on Ageing, UPM (2017 – Present)
 Chair, Web and Social Media Committee, Malaysian Research Institute on Ageing, UPM (2017 - Present)
 Research Grant Application Evaluator, Universiti Putra Malaysia (2016-2020)
 Advisor, Robotic Club, Faculty of Engineering, UPM (2013, 2014, 2015)
 Mentor, English Immersion, Faculty of Engineering, UPM (2011, 2012)

Departmental Services

Coordinator of Instrumentation Laboratory (2010 – 2012)
 Head of Master Program with Thesis – Control & Automation (2012 – April 2014)
 Academic Coordinator (April 2014 – 28 February 2017)
 Academic Advisor for BEng. (Electric/ Electronics) students (2010 – Present)
 Visiting Lecturer for Industrial Training of BEng. (Electric/ Electronics) students (2010 – Present)

Other Services

Associate Editor, Frontiers in Digital Health, 2024
 Guest Editor, International Journal of Integrated Engineering, Special Issue, 2024.
 Guest Editor, Pertanika Journal of Science and Technology, Special Issue, 2024
 Guest Editor, Applied Science, 2023
 Lead Guest Editor, Computational and Mathematical Methods in Medicine, 2021
 Guest Editor, Journal of Healthcare Engineering, 2021
 Chair, IEEE EMBS Malaysia Chapter 2021, 2022
 Guest Associate Editor, Frontiers in Public Health | Aging and Public Health, 2020.
 Review Editor, Frontiers in Digital Health | Connected Health, 2019, 2020
 External Assessor, BET Medical Electronics UniKL BMI, 2019 - 2023
 Guest Editor, International Journal of Integrated Engineering, Special Issue, 2019.
 Chair, IEEE EMBS Conference on Biomedical Engineering and Sciences (IECBES) 2018, 2020
 Guest Editor, Pertanika Journal of Science and Technology, Special Issue, Jan & Feb 2017
 Guest Editor, Journal of Engineering Science and Technology, Special Issue, August 2014.
 Chair-Elect, IEEE EMBS Malaysia Chapter 2019, 2020

Vice Chair, IEEE EMBS Malaysia Chapter 2017, 2018
 Executive Committee Member, IEEE EMBS Malaysia Chapter 2011, 2012, 2014, 2023
 Editorial Member, International Journal of Engineering and Technology (IJET) 2011 – 2019
 Vice Chair, IEEE-EMBS Conference on Biomedical Engineering and Sciences (IECBES), 2022
 Secretary, IEEE-EMBS Conference on Biomedical Engineering and Sciences (IECBES) 2010, 2012, 2014
 Secretariat Chair, IEEE EMBS Conference on Biomedical Engineering and Sciences (IECBES) 2016, 2024

Teaching Experience

EEE 4948 Integrated Design Project	Sem. 2 2023/2024
EEE 3811 Circuit Analysis	Sem. 1 2024/2025
EEE 3030 Electrical & Electronic Technology	Sem. 1 2024/2025
EEE 4947 Integrated Design Project	Sem. 1 2022/2023, Sem 1 2023/2024
ECC 3404 Multimedia Systems	Sem. 2 2019/2020, Sem 2 2020/2021, Sem 2 2021/2022, Sem. 2 2023/2024
EEE 3124 Instrumentations and Measurements	Sem. 2 2018/2019
EEE 3121 Principles of Electrical and Electronic	Sem. 1 2018/2019, Sem. 1 2019/2020
ECC 3004 Statistical Engineering	Sem. 1 2013/2014, Sem. 1 2012/2013, Sem. 1 2010/2011
EEE 3101 Principles of Electrical & Electronic	Sem. 1 2016/2017
EEE 3104 Instrumentation and Measurement	Sem. 2 2013/2014, Sem. 2 2012/2013; Sem. 2 2010/2011, Sem. 2 2009/2010
EEE 3402 Industrial Control Electronics	Sem. 1 2013/2014, Sem. 1 2014/2015
EEE 3902 Electrical and Electronics Laboratory 1	Sem. 1 2010/2011
EEE 3903 Electrical and Electronics Laboratory II	Sem. 2 2010/2011
EEE 3905 Control Engineering Laboratory I	Sem.1 2016/2017, Sem 1 2017/2018
EEE 3908 Control Engineering Laboratory II	Sem. 2 2012/2013, Sem. 2 2015/2016, Sem. 2 2016/2017
EEE 4407 Multivariable Control System	Sem. 3 2011/2012

Research Grants

Project Leader

<u>Source of fund</u>	<u>Project Title</u>	<u>Year</u>	<u>Status</u>
Geran Putra Berimpak (UPM)	Integrating Multi-modal Features into Artificial Intelligence-Assistance Fatigue and Stress Prediction for Automotive Drivers (RM119,000)	2024 - 2026	Ongoing
FRGS	Deep-learning Classifiers for Fatigue and Stress Level Detection of Automotive Drivers using Multimodal Features. (RM100,000.00)	2021 – 2023	Completed
USAID – MyOHUN	Capacity Building for Caregivers and Older Persons in Elderly Living Institution for Contactless Deliveries using Indoor Autonomous Platform (USD8,250 (RM35,000))	2020	Completed
UNFPA	Ageing and Sustainable Development in Malaysia (USD77,500(RM330,000.00))	2020 – 2021	Completed
Geran Matching UPM-Kyutech	Fall and Balance Monitoring for Older Persons (RM65,000.00)	2019 -2021	Completed
Fulbright-MCMC U.S. Specialist Program	Integrated Monitoring System for Aged Care (USD14,437 (RM57,000.00))	2019	Completed
Geran Putra IPS (UPM)	Autonomous Electric Vehicle Using Hybrid LIDAR and Video Camera Tracking System (RM24,500)	2018-2020	Completed
Geran Putra Berimpak (GPB), UPM	Design of Automated Muscle Performance Monitoring System for Functional Capacity Evaluation (FCE) in Core Lifting Task (RM123,000)	2018-2020	Completed
IEEE Region 10 Educational Activities (EA) Support Fund	Assistive Technology Awareness for Elderly Group in Malaysia (USD250 (RM1000))	2017	Completed
Geran Inovasi dalam Program Pengajaran (GIPP), UPM	Improving Students’ Understanding On Fundamental Electrical And Electronics Engineering Through Black Box Approach (RM10,000)	2016-2018	Completed
FRGS, MoE	Modeling and Design of High Output	2015-2017	Completed

	Force Dielectric Elastomer Actuator (RM77,000)		
Look East Policy Grant, MoE	Development of Force Feedback Electromyographic Control Prosthetic Hand (RM213,000)	2015-2016	Completed
Geran Putra, UPM	Electromyography Analysis on Muscle Fatigue during Physical Activities (RM15,000)	2014-2015	Completed
Geran Putra, UPM	Lifting Equation for Malaysia Population (RM15,000)	2013-2015	Completed
RUGS UPM	A Leaf Recognition Algorithm for Plant Classification Using Artificial Neural Network (RM11,000)	2012-2014	Completed
RUGS UPM	Signal Processing Algorithm Development for Ultrasonic Imaging in In-Vivo Skin Characterization (RM94,000)	2012-2014	Completed
eScience Fund, MOSTI	Intelligent Five-Fingered Robotic Hand Design and Development for Prosthetic Application (RM174,000)	2012-2014	Completed
RUGS UPM	Development of an Electromyographic Control for Prosthetic Hand Application (RM30,000)	2010-2012	Completed

Member

<u>Source of fund</u>	<u>Project Title</u>	<u>Year</u>	<u>Status</u>
FRGS, MoE	Characterisation of lower limb kinematic parameters to estimate hip and knee lift assistance strategy during sit-to-walk (RM137,000)	2022	Ongoing
LRGS	AGELESS – Psychosocial and Societal Burden of Cognitive Frailty among Older Person in the Community (RM696,000.00)	2019	Ongoing
KKP	Consortium on Mobility and Transportation in Ageing Society (COMTAS)	2020	Completed

(RM500,000.00)

FRGS, MoE	Ingestive Behavior Algorithm Based on Non-Invasive Contactless Sensor Signals for Obesity Prevention <i>(RM90,500)</i>	2019-2020	Completed
Geran Putra – IPS, UPM	Design and Develop Algorithm for Secured Transmission of Electrocardiogram Signal <i>(RM24,500)</i>	2018-2020	Completed
Geran Putra, UPM	Developing Smart Walker Prototype for Promoting Mobility among Older Malaysians <i>(RM50,000)</i>	2018-2019	Ongoing
Geran Putra, UPM	Developing Advanced Home Appliances Control System for Aged Generation <i>(RM50,000)</i>	2018-2019	Ongoing
FRGS, MoE	A biomechanical-based approach to improve energy expenditure in manual oil palm harvesting activity <i>(RM123,500)</i>	2016-2019	Ongoing
FRGS, MoE	The use of noise in enhancing human somatosensory perception for an improved postural control during activities of daily living. <i>(RM58,600)</i>	2016-2018	Ongoing
FRGS, MoE	Formulation of Hybrid Algorithm to Identify Distinctive Electromyography Signals Pattern of Lower Limb Muscle Activities based on Various Type of Motion for Rehabilitation Therapy. <i>(RM84,000)</i>	2015-2017	Ongoing
Geran Putra, UPM	A New Approach of Power Transformer Asset Management Using Health Index <i>(RM120,000)</i>	2015-2017	Ongoing
eScience Fund, MOSTI	Development of Human Emotion Recognition System for Automotive Drivers Using Psychophysiological	2014-2016	Ongoing

	Signals (RM215,000)			
FRGS, MoE	Characterization of Graphene Material in MEMs Pressure Sensor Design for Medical Application. (RM119,000)	2014-2016	Ongoing	
eScience Fund, MOSTI	Scale Invariant Center-Surround Extremes Detectors for the Application of Feature-based Visual Odometry (RM132,000)	2014-2015	Ongoing	
Geran Putra, UPM	An Investigation on the Evaluation of Tissue Damage using Skin Blood Flow Response for Pressure Ulcer Prevention (RM157,800)	2014-2015	Ongoing	
FRGS, MoE	Formulation of Algorithm to Classify Distinctive Odors Pattern of Aromatic Plant Species using Hybrid Artificial Intelligence Techniques (RM121,500)	2013-2015	Ongoing	
eScience Fund, MOSTI	Development of a Lifting Model for the Malaysian Population (RM236,000)	2013-2015	Ongoing	
Geran Putra, UPM	Wearable Power Assisted Exoskeleton for Rehabilitation (RM15,000)	2013-2015	Ongoing	
RUGS UPM	Development of E-Nose Herbs Recognition System Based on Artificial Intelligence Technique (RM63,000)	2012-2014	Completed	
RUGS UPM	Intelligent Characterisation and Evaluation of Reused Cooking Oil Using Pattern Recognition Techniques (RM30,000)	2012-2014	Completed	
FRGS, MoE	Exploration on Hybrid Artificial Intelligence of Model-Based Calibration Engine (RM63,000)	2011-2013	Completed	

Contract Research

<u>Source of fund</u>	<u>Project Title</u>	<u>Year</u>	<u>Status</u>
UNDP	Aged Friendly City – Taiping (USD99,802.00 (RM400,000.00))	2019 – 2021	Completed
Nagasteel Sdn. Bhd	Embedded Electronics Board for DISEGANNI Storage Unit (RM21,000.00)	2013 – 2014	Completed

STUDENTS SUPERVISION

Chairman for supervisory committee of MSc. Candidates

1	Farzaneh Akhavan Mahdavi	Characterization Of Surface Electromyographic Signal Of The Upper Arm For Prosthetic Control Application (COMPLETED, 2014)
2	Muhammed Hussain Abdul Sahab	Development of Smart Chili Drying System (COMPLETED, 2014)
3	Seyed Mohammad Hossein Sefidgar	Leaves Recognition using Genetic Algorithm and Neural Network (COMPLETED, 2014)
4	Hesam Jahani Fariman	A Pattern Recognition-Based Myoelectric Control System Scheme for a Prosthetic Hand (COMPLETED, 2014)
5	Hossein Ghapanchizadeh	Investigation on Surface Electrodes Placement and Pre-processing Techniques for Accurate Electromyographic Signals of the Upper Limb Muscles (COMPLETED 2016)
6	Ahmad Akmal Mohd Nazri	Surface Electromyography Classification of Hand Motions Using Time Domain Features for Real Time Application (COMPLETED, 2016)
7	Haneen Jawad	Development of Dielectric Elastomer for Prosthetic Arm Application (COMPLETED, 2017)
8	Jonathan Ooi	Study of Human Emotion Recognition in Malaysian Drivers (COMPLETED, 2017)
9	Abdulrahman Abdulkareem	Control System of Robotic Hand for Grasping Object (COMPLETED 2016)
10	Nur Farah Elya Saidon	Modeling of Human Hand (COMPLETED, 2017)
11	Mohamad Aizat Abdul Wahit	Development of Electromyography Controlled 3d Printed Robot Hand and Supervised Machine Learning for Signal Classification (COMPLETED, 2020)
12	Noraini binti Camarudin	Validation of The Hearing Handicap Inventory for the Elderly-Screening (HHIE-S) Among Elderly in Seremban, Negeri Sembilan (COMPLETED, 2021)

13 Shaikh Muhammad Umair Investigation of Data Encryption Algorithm for Secured Transmission of Electrocardiograph (ECG) Signal
(COMPLETED, 2023)

14 Chen Tiantian The relationship between Smartphone Usage and Cognitive Function in Older Adults

Chairman of supervisory committee for PhD candidates

- 1 Hamidreza Mohafez Developing Signal Processing Method of Ultrasonic Imaging in In-Vivo Skin Characterization
(COMPLETED 2016)
- 2 Nurul Fauzani Jamaludin Surface Electromyography Analysis on Early Stage of Overtraining Syndrome
(COMPLETED, 2018)
- 3 Norhafeezah Kamarudin Development of Lifting Model for Malaysia Population
(COMPLETED, 2019)
- 4 Ezreen Farina Shair Time-Frequency Distribution Technique Of Electromyography Pattern Recognition For Repetitive Core Lifting Task
(COMPLETED, 2019)
- 5 Asmida Ismail Autonomous platform perception system using hybrid camera and lidar
- 6 Kawthar Abdul Rahman Fall and Balance Detection in Older Persons
(COMPLETED, 2025)
- 7 Sa'diah Jantan The Fatigue and Stress Level Detection System Using Deep Learning Analysis Applied To Automotive Drivers
- 8 Jeevasulochana A/P Sinniah The impact of activity of daily living on quality of life of older people with cognitive frailty and caregiver
- 9 Afifah Khalid

Member of supervisory committee for PhD candidates

- 1 Azizul Rahman Abd Aziz Kinesiology Associated Estimation of Upper Limb Postures Regarding Prime Mover Muscle Activity and Energy Expenditure
(COMPLETED, 2019)
- 2 Yunusa Ali Said Map Building Using Image Features Techniques.
(COMPLETED, 2015)
- 3 Yapp Jong Heng An Investigation on the Evaluation of Tissue Damage Using Skin Blood Flow Response for Pressure Ulcer Prevention
(COMPLETED, 2018)
- 4 Aina Mardhiyah Mohamad Ghazali Foot Pressure Analysis for Diabetic Patient.

5	Nurzulaikhah Nadzri	<i>(COMPLETED, 2021)</i>
6	Ahmed M.M. Almassri	<i>(COMPLETED, 2019)</i>
7	Husamuldeen Khalid Hameed	<i>(COMPLETED, 2020)</i>
9	Saliza Ramli	Early Pressure Ulcer Evaluation Using Skin Blood Flow Response Signal Features and Trends <i>(COMPLETED)</i>
10	Zolfaghari Sahar	Control of a Wearable Lower Exoskeleton for Walking Enhancement
11	Noor Sazarina binti Mad Isa@Yahya	Development of Manual Lifting Assessment Tool for Malaysian Workers
12	Qi Ji	
13	Noor Kamal Mohsin (Universiti Kebangsaan Malaysia)	Study of Memory Loss in Stroke Patients <i>(COMPLETED, 2016)</i>
14	Nurhazimah Nazmi (Universiti Teknologi Malaysia)	Surface EMG Classification for Lower Limb Using Statistical Analysis <i>(COMPLETED, 2018)</i>

Member of supervisory committee for MSc candidates

1	Mohd Hasimi Mohd Sidek	A New Method of Line Navigation For Autonomous Mobile Robot Using Invisible Line <i>(COMPLETED 2016)</i>
2	Intan Helina Hassan	EEG Signal Interpretation System for Brain-Computer Interface Application in Mobile Robot <i>(COMPLETED, 2014)</i>
3	Nor Hadzfizah Mohd Radi	Pattern Recognition of Handgrip Strength Among Malaysian Population <i>(COMPLETED, 2015)</i>
4	Seyedkaveh Mazloomi	Enhancement of The Efficiency of Water Electrolysis for Hydrogen Production <i>(COMPLETED, 2013)</i>
5	Maged Saleh	EMG Controlled Wearable Power Assisted Exoskeleton for Rehabilitation. <i>(COMPLETED 2015)</i>
7	Sanaz Yadegar	Design Chattering-free Equivalent Estimator Sliding Mode Controller for Serial Links 6 DOF Robot Manipulator <i>(COMPLETED 2015)</i>
8	Ahmed M.M. Al-Masri	A control System for Multi-Fingered Robotic Hand with Distributed Piezoresistive Pressure Sensor <i>(COMPLETED, 2014)</i>
9	Emran Jawad Kadim	Study of a Transformer Health Index <i>(COMPLETED, 2016)</i>
10	Batool Abdulsamad Abbood Alkharasani	Delay in Anti-lock Bracking System <i>(COMPLETED, 2017)</i>
11	Mohammed Isam Naji	Enhancement the brain activity in high body mass index individuals by using EEG-Neurofeedback

- training
(COMPLETED, 2019)
- 12 Lee Foong Sim Non-Pharmacological Treatmen for Chronic Musculoskeletal Pain Among Community-Dwelling Older Adults in Petaling District, Selangor
(COMPLETED, 2019)

Supervision of Final Year Project

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|----|-------------------------------|---|
| 1 | Muhd Asyraf Khalid | Investigation of Classification Methods of Surface Electromyography Signals
(COMPLETED, 2011) |
| 2 | Mohd Edzree Nawawi | Development of Centralized Monitoring System in the Lecturers' Room
(COMPLETED, 2011) |
| 3 | Syaimaa' Bt Samsudin | 8-bit PIC Microcontroller Time Performance Evaluation for Hand Prosthesis Control Interfacing Based on High Level Language
(COMPLETED, 2013) |
| 4 | Muhamad Zulhilmie Ibrahim | Study of Hand Prehension Using Force Sensor and Accelerometer
(COMPLETED, 2013) |
| 5 | Wan Mohd Firdaus Wan Ahmad | Study of Automated Hand Prehension using Force Sensor and Accelerometer
(COMPLETED, 2014) |
| 6 | Amira Amiruddin | Study on Force and Electromyography Signals during Lifting Operation
(COMPLETED, 2014) |
| 7 | Farida Izni Abdul Rahman | Development of 3D printed modular artificial hand
(COMPLETED, 2016) |
| 8 | Tan Mui Yen | Control System Design for 3D printed hand
(COMPLETED, 2017) |
| 9 | Fatimatul Zahrah | (COMPLETED, 2018) |
| 10 | Fareesha | (COMPLETED, 2018) |
| 11 | Muhamad Muizuddin Abdul Razak | Development of Smart Monitoring System for Old People in Secluded Area
(COMPLETED, 2019) |
| 12 | Nur Afiqah Ariffin | Development of Closed loop Feedback EMG-Controlled Artificial Hand
(COMPLETED, 2019) |
| 13 | Ammar Raqib | (COMPLETED 2020) |
| 14 | Nur Atiqah | (COMPLETED 2020) |
| 15 | Ng Han Yee | Autonomous Delivery Robot using LiDAR for Elderly Care (COMPLETED 2021) |
| 16 | Siti Zuhairah Zolkaply | Fall Detection System and Balance Monitoring System for Older Persons (COMPLETED 2021) |

17	Ahmed Faozi Rabeah	Fatigue and Stress Detection using Deep Learning (COMPLETED 2022)
18	Shalini A/P Murugasen	Fall and Balance Monitoring System for Older Persons (COMPLETED 2022)
19	Kiang Fei Yi	(COMPLETED 2023)
10	Ngiow Ee Qin	Development Of App-Based Balance Assessment And Fall Risk Among Older Person (COMPLETED 2023)

THESIS EXAMINATION COMMITTEE

Internal

PhD Candidate

No	Name	Project Title	Institution	Year	Chairman/ Examiner
1	Nasrollah Sahragard		UPM	2011	Examiner
2	Goh Zai Peng	Detection Algorithm and Correlation of Harmonics and Voltage Flicker	UPM	2017	Chairperson
3	Farinaz Behrooz	Indoor Temperature and Humidity Control by generalized Predictive Control – Fuzzy Cognitive Map Controller on Direct Expansion Air Conditioning System	UPM	2017	Examiner
4	Elya Mohd Noor	Extended High-Gain Observer-Based Output Feedback Control of Vertical Take-Off and Landing Vehicle Under Presence of External Force Disturbance	UPM	2018	Examiner
5	Azin Farzin	Evaluating the Efficacy of a Preventative Multi-Component Training Program for Prospective Memory Performance Among Healthy Older Adults	UPM	2018	Chairperson
6	Al-Fadhl Yahya Khaled Al-Khaled	Dielectric Spectroscopy for Basal Stem Rot Disease Analysis in Oil Palm	UPM	2018	Examiner
7	Ayman William Hermansson	Robust offset-free Control on Nonlinear Systems Using Model Predictive	UPM	2019	Examiner

		Control And Integral Action			
8	Rezanoori Alireza		UPM	2019	Examiner
9	Aqeel Abdulazeez Mohammed		UPM	2019	Chairperson
10	Shokshk Ali Ahmed Mansour	A Model to Assess Work Efficiency Based on Activity Energy Expenditure and Activity Wasted Energy in Horizontal Drilling Task	UPM	2019	Examiner
11	Wong Chui Yin		UPM	2020	Chairperson
12	Yasir Mahmood Abdullah Alkubaisi	Gravitational Energy Harvesting System based on Multistage Braking Technique for Multilevel Car Parkin Building	UPM	2020	Chairperson
13	Akram Mohammed Abdul Aziz Al- Mahrouk	Integrated Multilevel Inverter Matrix Converter to Reduce Component Count and Three-Time- Repetition	UPM	2020	Chairperson
14	Abdallah S. Z. Alsayed	Objective Pinch Assessment System Based on Upper Extremity Fugl Meyer Protocol for Post- Stroke Patients	UPM	2020	Examiner
15	Ali Hussein	Efficient Soft Sensor Modelling in Advanced Predictive Control	UPM	2021	Examiner
16	Ali Khalifa Abdgalil	Graphene and Graphene/ Carbon Black Composite Based Counter Electrodes for Platinum-Free Dye- Sensitized Solar Cell	UPM	2021	Chairperson
17	Ghumedh Abuajela Arhuma Mohammed	A Neural Network Classifier for Mass, Microcalcification, and Density Using Gabor Features on Digital Breast Tomosynthesis	UPM	2021	Examiner
18	Salami Bahariah Suliano	Re-design Ergonomics Car Interior for Mobility Impaired using TRIZ	UPM	2021	Examiner

Based Tools

19	Abdulhadi Abdulsalam Abulifa	Optimization and Prediction of Energy Management System in a Battery Electric Vehicle using Fuzzy Technique with Brute Force and Regression	UPM	2021	Examiner
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MSc Candidates

No	Name	Project Title	Institution	Year	Chairman/ Examiner
1	Karimeh Ibrahim Mohammad Ata		UPM	2019	Chairperson
2	Abdulwahab A. Abdulrahman Al-Saadi	Design and Development of Embedded System to Control Motorized CNG-Air Mixer for Diesel Dual-Fuel Engine	UPM	2018	Examiner
3	Zahraa Abdulkareem Mohammed	Optimal Location and Sizing of Distributed Generation	UPM	2017	Chairman
4	Thulasi A/P Manoharan	Effect of Break-Time on the Upper Extremity Musculoskeletal Disorder Development	UPM	2017	Examiner
5	Akmalina Azmi	Modification of Weight Value Identification In Transformer Health Index Assessment Model	UPM	2017	Chairman
6	Anith Khairunnisa	Modified Model Reference Adaptive Control Using Lyapunov Rule for Power Module in Nuclear Reactor System	UPM	2017	Examiner
7	Nursaida Mohamad Zaber	Optimising PID Controller Using Slope Variation Approach	UPM	2016	Examiner
8	Razieh Khanaki	Maximum Power Point Tracking Using Artificial Neural Network for Photovoltaic Standalone System	UPM	2014	Chairman
9	Aliyu Sabo	Simulation Analysis of Dual Digital Controllers and Its Real Time DSB-Based Implementation	UPM	2014	Chairman

10	Muhammad Azhar Omar	Lightning Severity Classification Utilizing the Meteorological Parameters: A Neural Network Approach	UPM	2014	Chairman
11	Ahmed Abdulelah Ahmed Al-Taylajee	Develop a Controller Real-Time Tuning Algorithm for Inaccurate Model Systems Using Modified Hill Climbing Approach	UPM	2014	Examiner
12	Ameer M.F. Sider	Design of Fuzzy-PID Controller for Brake by Wire System Of Electric Vehicle	UPM	2014	Chairman
13	Ali Ghahraei	Atmospheric Chamber to Study the Effects Of Ambient Parameters On The Efficiency Of Solar Cells	UPM	2014	Examiner

**External
PhD Candidates**

No	Name	Project Title	Institution	Year	Chairman/ Examiner
1	Sundarapandiyan S	An Improved Sub-word Model Based Continuous Robust Speech Recognition for Tamil Language	Anna University, Chennai, India	2017	Examiner
2	C. K. Kishore	Investigation on Extended Hybrid Three Port Converter Using Control Techniques	St. Peter's Institute of Higher Education and Research, Chennai, India	2017	Examiner
3	Abdalla Mohamed Ahmed Mahmoud Salama	Monitoring and Imaging Industrial Process Using a Novel Electrical Impedance Tomography	Nottingham University of Malaysia	2018	Examiner
4	Muhammad Muzammel	Visual and Acoustic Techniques for Motorcycle Collision Warning System with EEG Validation	Universiti Teknologi Petronas	2018	Examiner
5	C. Menaka	Design and Development	Bharathia	2018	India

		of a Secured Framework for Sharing Personal Health Records in Cloud Environment	University India		
6	MA Manivasagam	Design of Self Reconfigurable Wireless Sensor Networks for Critical Applications	St. Peter's Institute of Higher Education and Research, Chennai, India	2019	Examiner
7	Awais Gul Airij	Multimodal Adaptive Algorithm for Stress Classification in Children with Autism Spectrum Disorder using Case Based Reasoning	UTM	2020	Examiner
8	Asmarani binti Ahmad Puzi	Adaptive Impedance Robotic Training Platform Based on the Quantitative Evaluation of Spasticity In Upper Limb of Neurological Disorder	UIA	2020	Examiner
8	Khaled Alsaih	Retinal Fluid Segmentation on Optical Coherence Tomography Scans using Volumetric Deep Learning Networks	UTP	2020	Examiner
9	Muhammad Amin bin Abd Wahab	Correlation Reflected Fast and Slow Waves with Various Porosity Models and Thicknesses Using Pulse-Echo Ultrasound Technique	UTM	2020	Examiner
10	Tareq M.K. Altalmas	Real-time Audio Based Training System for Correct Quranic Letter Pronunciation	UIA	2021	Examiner
11	Lam Gai Lim	Optimizing Mental Workload Estimation by Detecting Baseline State Using Vector Phase Analysis Approach	UTP	2021	Examiner
12	J Sudhakar	A Novel Approach of	India	2021	Examiner

		Driver's Behaviour Detection Using PSO/DPSO Algorithms for Intelligent Transport System			
13	Tina Houshang	Behavioural Intention of Use Internet Content Among Elderly	MMU	2021	Examiner
14	Laith Alzubaidi	Deep Learning for Medical Imaging Applications	Queensland Uni., Australia	2021	Examiner

MSc Candidates

No	Name	Project Title	Institution	Year	Chairman/ Examiner
1	Nur Husna Shahimi	The Association of Heart Rate and Blood Pressure Variability with Psychological Disorder and Physical Performance in Elderly	UM	2021	Examiner
2	Syahirah Hanizam	Motion Estimation for 1- Channel Around View Monitoring in Advance Driver Assistance System using Wide Fisheye Camera	2021	UIA	Examiner
3	Sarah Obaid Shaikh	Diabetic Retinopathy Detection Using Artificial Intelligence	Qatar Uni	2020	Examiner
4	Tooba Salahuddin	Neuropathy Classification of Corneal Nerve Images Using Artificial Intelligence	Qatar Uni	2019	Examiner
5	Muhammad Anwar Alhaq A. Matin	Vision Based Single-Shot Real-Time Vehicle Detection and Ego-Lane Estimation for Forward Collision Warning System	UIA	2019	Examiner
6	Nur Rasyidah binti Hasan Basri	Analysis of Glutathione Supplementation Effects on Female Volunteer's Metabolic Syndrome Condition using Classification Techniques	UM	2019	Examiner
7	Maisarah Zainul	Ambient Temperature	UiTM	2018	Examiner

	Abidin	Drift Compensation Method for Metal-Oxide Semiconductor (MOS) Gas Sensor Responses				
8	Ng Charn Loong	A Capacitive Electromyography Sensor for Extramural Monitoring of Muscle Activity	UKM	2018	Examiner	
9	Chew Zen Shan	Sensor-Based Assessment with Machine Learning for Predictive Model of Badminton Skills	UTM	2017	Examiner	
10	Emad Ul Hassan Kirmani	U-Model Based Real-Time Gas Pressure Process Control System	UTP	2017	Examiner	
11	Mustafa Mahmood Sabry	A Study of Knee Joint Ankle and Lower Limb Muscle Fatigue During Dynamic Cycling at Different Saddle Height	UniMAP	2017	Examiner	
12	Muhammad Shaufil Adha bin Shawkany Hazim	Target Selection Using Single Channel Brain Computer Interface and Without Extensive Subject Training	UTM	2017	Examiner	
13	Che Wan Nurul Fatimah Che Wan Fadzal	Electrode Optimisation and Feature Extraction of EEG Signal to Identify Dyslexic and Normal Children	UiTM	2017	Examiner	
14	Abed Alrahman Mkayes	Ellipse-Based Template Matching Identification in Fluorescence Microscope Images	UTP	2016	Examiner	
15	Raja Umi Kalsom bt. Raja Mohd Radzi	Modelling of Mycobacterium Tuberculosis for Non-invasive Technique Detection	UiTM	2016	Examiner	
16	Chong Tune Hau	Design of a Compliant Ankle Rehabilitation Robot using Shape Memory Alloy Wire Actuator	Monash Uni.	2016	Examiner	
17	Rubana Hoque	Classification of the	UKM	2014	Examiner	

	Chowdury	Surface EMG Signal for Detecting Localized Muscle Fatigue				
18	Husnaini Azmy	EEG Based Target Direction Detection for Wireless Robot Control	UTM	2013	Examiner	
19	Azlee Zabidi	Recognition of Asphyxia from Infant Crying Using ANN	UiTM	2013	Examiner	
20	Ramesha Indeewarie Soysa	Virtual Instrumentation Technology Adaptation Lab	Monash Uni.	2012	Examiner	
21	Rohilah Sahak	Classification of Infant Cry Signal with Asphyxia Using Support Vector Machine with feature Optimization Methods	UiTM	2011	Examiner	

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- Journal
1. Chen, T., Foong, H. F., Li, J., Sun, Y., Tang, W., Fu, J., Ibrahim, R., **Ahmad, S. A.** (2025). The relationship between smartphone use and cognitive function among Chinese community-dwelling older adults: the moderating role of sex. *Behaviour & Information Technology*, 1–12. <https://doi.org/10.1080/0144929X.2025.2469666>
 2. Selamat, N.A. Ali, S.H.M., Ismail, A.G., **Ahmad, S.A.**, Minhad, K.N. (2025). Novel Chewing Cycle Approach for Peak Detection Algorithm of Chew Count Estimation. *IEEE Sensors Journal*, Vol. 25, No. 1, 1 January 2025
 3. Nasrabadi, M., Kashfi, S.M., Soltani, A., **Ahmad, S.A.B.**, Asadollahi, A. (2024). *Psyche: Journal of Entomology*, 2024, 2024, 2385170
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 6. Noor Kamal Al-Qazzaz, Maher Alrahhal, Sumai Hamad Jaafer, Sawal Hamid Bin Mohd Ali, **Siti Anom Ahmad.** (2024) Automatic Diagnosis of Epileptic Seizures Using Entropy-Based Features and Multimodel Deep Learning Approaches. *Medical Engineering and Physics* 130 (2024) 104206.
 7. Perera, C.K., Gopalai, A.A., Gouwanda, D., **Ahmad, S.A.**, Teh, P.-L. (2024) Lower Limb Torque Prediction for Sit-To-Walk Strategies Using

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 9. Noor Kamal Al-Qazzaz, Alaa A. Aldoori, Ali K. Buniy, Sawal Hamid Bin Mohd Ali, **Siti Anom Ahmad**. (2024) Transfer Learning and Hybrid Deep Convolutional Neural Networks Models for Autism Spectrum Disorder Classification from EEG Signals. *IEEE Access*, 2024. Vol. 12, 65410 - 6430
 10. Noor Kamal Al-Qazzaz, Iyden Kamil Mohammed, Halah Kamal Al-Qazzaz , Sawal Hamid Bin Mohd Ali and **Siti Anom Ahmad**. (2023). Comparison of the Effectiveness of Various Classifiers for Breast Cancer Detection Using Data Mining Methods. *Appl. Sci.*, 13, 12012. <https://doi.org/10.3390/app132112012>
 11. Chamalka Kenneth Perer, Alpha Agape Gopalai, Darwin Gouwanda, **Siti Anom Ahmad** & Mazatulfazura Sf Binti Salim. (2023). Sit-to-walk Strategy Classification in Healthy Adults Using Hip and Knee Joint Angles at Gait Initiation. *Scientific Report* 13:16640.
 12. Mohd Rizal Hussain, Nuzul Azam Haron, Raja Ahmad Azmeer Raja Ahmad Effendi, Rahimah Ibrahim, Ruhaizin Sulaiman, **Siti Anom Ahmad**, Fakhrul Zaman Rokhani, Asmidawati Ashari, Mohd Khair Hassan, Mohd Shahrizal Dolah and Saiful Hasley Ramli. (2023). Walking Frame Design Recommendation Based on Experience Of Elderly User, Carer, And The Industry In Kuala Lumpur & Selangor, Malaysia. *Malaysian Journal of Public Health Medicine* 2023, Vol. 23(1):261-271.
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