

CURRICULUM VITAE

PROFESSOR TS. DR. M. IQBAL SARIPAN

Department of Computer and Communication Systems Engineering,
Faculty of Engineering, Universiti Putra Malaysia,
43400 Serdang, Selangor, Malaysia



Tel. : +60397694344
E-mail : iqbal@upm.edu.my
ORCID : <https://orcid.org/0000-0002-3005-5331>
Google Scholar : https://scholar.google.com/citations?user=DEILx_UAAAAJ&hl=en
ResearchGate : <https://www.researchgate.net/profile/M-Iqbal-Saripan>
Website : <https://www.scopus.com/authid/detail.uri?authorId=14010419600>

Education

- Ph.D Image Processing, University of Surrey, UK (2006)
- B.Eng (Hons) Electrical-Electronics Engineering, Universiti Teknologi Malaysia (2002)

Areas of Interest

- Intelligent Image and Signal Processing
- Medical Diagnostic and Nuclear Medicine Imaging
- Embedded System

Professional Membership & Learned Society

- Fellow, Academy of Sciences, Malaysia
- Chartered Engineer, Engineering Council UK
- Senior Member, Institute of Electrical and Electronics Engineers (MIEEE)
- Member, Institute of Physics, UK (MInsP)
- Professional Technologist, Malaysia Board of Technologist (MBOT)

Appointments

Position

Duration

Academic Appointments:

- | | |
|-----------------------------------|------------|
| 1. Professor VK6 - UPM | Since 2019 |
| 2. Professor VK7 - UPM | 2014-2019 |
| 3. Associate Professor DS54 - UPM | 2011-2014 |
| 4. Senior Lecturer DS52 - UPM | 2008-2011 |
| 5. Lecturer DS45 - UPM | 2006-2008 |
| 6. Tutor 41 - UPM | 2001-2006 |



Visiting Appointments:

- | | |
|---|-----------|
| 1. University of Portsmouth, UK | 2022-2023 |
| 2. University of Dammam, Saudi | 2011 |
| 3. University of Surrey, UK | 2010-2011 |
| 4. Lawrence Berkeley National Laboratory, USA | 2010 |

Administration/Other Appointments:

- | | |
|---|------------|
| 1. Chief Digital Officer – UPM | Since 2024 |
| 2. Deputy Vice Chancellor (Academic and International) – UPM | 2017-2022 |
| 3. Chief Information Officer – UPM | 2018-2022 |
| 4. Director, Centre for Quality Assurance (CQA) – UPM | 2015-2017 |
| 5. Deputy Dean (Postgraduate Studies) – Faculty of Engineering, UPM | 2014-2015 |
| 6. Head of Department – Dept. of Computer and Communication Systems Engineering, Faculty of Engineering, UPM | 2012-2014 |
| 7. Head, Multimedia Systems Engineering Research Group - Dept. of Computer and Communication Systems Engineering, Faculty of Engineering, UPM | 2009-2011 |
| 8. Coordinator, Research - Dept. of Computer and Communication Systems Engineering, Faculty of Engineering, UPM | 2009-2011 |
| 9. Associate Researcher - Institute of Advanced Technology (ITMA), UPM | 2008-2011 |
| 10. Coordinator, Master with Thesis - Embedded and Artificial Intelligence Engineering | 2007-2009 |
| 11. Head, Embedded and Artificial Intelligence Engineering Research Group | 2007-2009 |
| 12. Coordinator, Student's Affairs and Alumni - Dept. of Computer and Communication Systems Engineering, Faculty of Engineering, UPM | 2007-2009 |
| 13. Document Control Officer – Quality Assurance Unit, Faculty of Engineering, UPM | 2007-2008 |

Publications

The list can be viewed at the following links -

Google Scholar : https://scholar.google.com/citations?user=DEILx_UAAAAJ&hl=en

Scopus : <https://www.scopus.com/authid/detail.uri?authorId=14010419600>

Conference Proceedings / Academic Talks

The list can be viewed at the following links -

Google Scholar : https://scholar.google.com/citations?user=DEILx_UAAAAJ&hl=en

Scopus : <https://www.scopus.com/authid/detail.uri?authorId=14010419600>

Intellectual Properties

Patent:

Wire Mesh Collimator PI20082818 MY-158113-A (granted)

A Multi Port Haptic Interface for Simulation of Image-Guided Endovascular Interventions PI2015702770 (filed)

A System To Administer An Outcome Based Education PI2010003169 MY163006A (granted)

Copyright:

MyOBE System – have been commercialized. Gross sale RM200,000 (~GBP30,000)

UPM3DFE Database – have been commercialized. Gross sale RM5,000 (~GBP800)

Trademark:

MyOBE

Research Grants

No.	Grants	Sponsor	Duration	Amount (Ringgit Malaysia)
1.	INTERNATIONAL GRANT: Pulmonary Nodule Diagnosis using deep learning based on SPECT/CT dual-modal images (National coordinator)	Education Department of Hebei Province, China	2018-2021 (completed)	10,000
2.	Optimization of the usage of radiotracers in Positron Emission Tomography (Project Leader)	Geran Putra	2018-2023 (on-going)	250,000
3.	Up-scaling of Image-Guided Endovascular Interventions Haptic System (Project Leader)	PRGS	2017-2019 (completed)	141,000
4.	Ethos Hunt – Hunting for Ethics (Gamification Learning) (Member)	GIPP-UPM	2016-2018 (completed)	10,000
5.	Development of Continuous Sinogram Reader for 3D Nuclear Imaging Systems (Project Leader)	Sciencefund	2015-2017 (completed)	272,000
6.	Establishment of Correlation Algorithms in Improving Image Quality for Nuclear Medical Imaging System (Project Leader)	FRGS	2014-2016 (completed)	139,000
7.	Automatic Classification of Alzheimer Disease (AD) based on PET/CT Brain Imaging (Project Leader)	IPB-UPM	2013-2015 (completed)	198,000
8.	Verifikasi Data Sistem Penarafan Kolej Komuniti (Project Leader)	MOE (Top-Down)	2014 (completed)	372,300
9.	Design, Fabrication and Characterization of Doped Silica Optical Fibre (Member)	MOE (High Impact Project) Awarded to UM	2012-2014 (completed)	undisclosed
10.	INTERNATIONAL GRANT: cLINK (Project Coordinator in Malaysia)	Erasmus Mundus	2012-2014 (completed)	EURO 2.5M (RM12M)

11.	Characterization and Fundamental Properties of Radiosensitive Borate Glass doped with Nano Gold Particles for Radiotherapeutic Measurement (Member)	FRGS – MOE	2013-2015 (completed)	90,000
12.	INTERNATIONAL GRANT: An Innovative Proof of Concept of 3D X-Ray Imaging Systems for Painless Breast Cancer Detection (Project Leader in Malaysia)	NSTP – King Saud University (Saudi)	2012-2014 (completed)	SR1.8M (RM1.62M)
13.	INTERNATIONAL GRANT: Developing Efficient NDT Data Management Through Integrated NDT Modalities (Member)	International Atomic Energy Agency (IAEA)	2012-2013 (completed)	undisclosed
14.	The potential use of Optical Fibre Doped Silica Glass as a Thermoluminescence System for Radiotherapy Dosimetry (Member)	RU Grant- UTM	2012-2014 (completed)	100,000
15.	Development of High Speed Electronics Read-outs for Highly Sensitive Mobile Gamma Camera in Breast Cancer Imaging System (Project Leader)	Sciencefund - MOSTI	2011-2013 (completed)	403,600
16.	Effectiveness of Industry-Oriented Education (IOE) in Closing Student Competency Gap for High Pace Electronics Industry (Member)	GIPP-UPM	2012-2014 (completed)	20,000
17.	Physically-based biodosimetry detected by electron paramagnetic resonance (EPR) for radiation accident emergency management (Member)	RU Grant- UTM	2011-2013 (completed)	165,000
18.	Development of Rating Instrument for Community Colleges (Project Leader)	MOHE (Top-Down)	2012-2013 (completed)	220,000
19.	Modelling of Estimation Algorithm to Predict Optical Lights Distribution Pattern from High Energy Gamma Rays (Project Leader)	ERGS-MOHE	2011-2013 (completed)	72,000
20.	INTERNATIONAL GRANT: Single Sided X-Rays Imaging (Project Leader in Malaysia)	DSTL UK (via Univ. of Surrey, UK)	2011 (completed)	GBP6200 (RM31,000)
21.	INTERNATIONAL GRANT: Semi- Compressed Breast Cancer Detection (Project Leader in Malaysia)	ISRP	2011 (completed)	AUD500 (RM1,100)
22.	Development Of Positron Emission Tomography (PET) Phantom For Image Processing Calibration System (Project Leader)	RUGS-UPM	2011-2012 (completed)	15,000
23.	A New Concept of Collimated Backscattering Gamma Rays Techniques (Project Leader)	FRGS-MOHE	2009-2011 (completed)	40,000

24.	Evaluation and Assessment of Wire Mesh Collimator Gamma Camera– collaboration with Lawrence Berkeley National Laboratory US (Project Leader)	Braingain- MOSTI	2008-2010 (completed)	254,000
25.	Automatic Classification Technique for Extrapulmonary Tuberculosis Using PET/CT Images (Project Leader)	Sciencefund- MOSTI	2008-2010 (completed)	279,800
26.	Wire Mesh Collimator For a 3D SPECT Camera (Project Leader)	Sciencefund - MOSTI	2007-2009 (completed)	194,500
27.	A Novel Concept Of A 3D Wire Mesh Collimator (Project Leader)	FRGS-MOHE	2007-2009 (completed)	100,000
28.	Theoretical Studies On Quantum Cryptography (Member)	FRGS-MOHE	2007-2009 (completed)	100,000
29.	Early Breast Cancer Detection Using Wire-Mesh Collimator (Project Leader)	RUGS-UPM	2007-2009 (completed)	59,000
30.	Design And Implementation Of Distributed- Based System Scalability And Interoperability Interface In Embedded Platform For Smart Community Township Development	RUGS-UPM	2007-2009 (completed)	148,000
31.	Skin Burn Severity Assessment Using Mobile Network / Scheme for New Lecturers (Project Leader)	New Lecturer Scheme-UPM	2007-2008 (completed)	7,400

Community or Industry Projects/Grants

No.	Projects	Role	Sponsor	Duration	Amount (Ringgit Malaysia)
1.	IoT-based CT machine remote monitoring	Head of Sub-project	Ministry of Health	2021-2022	150,000
2.	Liveness and OCR project using Deep Learning	Leader	BayoPay	2020-2021	85,000
3.	MyQUEST (a few phases since 2008)	Head of Sub-project	Ministry of Higher Education	2008-2017	1,500,000
4	SETARA	Head of Sub-project	Ministry of Higher Education	2015	250,000
5	MQA Auditor	Auditors	MQA	2008-	Based on tasks



6	EAC Evaluator	Evaluator	EAC	2010-	Based on tasks
7	Infectious Diseases Early Warning System	Member	MTDC	2007	50,000

Professional Services / Consultation (Journal Reviewer, editorial works, etc.)

ACADEMIC PROGRAMME EVALUATOR

I have been appointed to evaluate the programmes in these universities:

Evaluator for Engineering Accreditation Council (EAC) : Universiti Malaysia Perlis (UNIMAP), Universiti Malaysia Sarawak (UNIMAS), Multimedia University (MMU), Universiti Kebangsaan Malaysia (UKM), Kolej Universiti Insaniah (KUIN)

Evaluator for Malaysian Qualification Agency (MQA) : Universiti Malaysia Sabah (UMS), Universiti Teknikal Melaka Malaysia (UTeM), Monash University Malaysia Campus, Universiti Kuala Lumpur (UNIKL), Polytechnics, etc.

Academic External Assessor for College of Engineering (Universiti Malaysia Pahang) and Faculty of Electronics and Computer Engineering (Universiti Teknikal Melaka)

EXPERIENCE IN CURRICULUM DEVELOPMENT AND REVISION

Diploma in Multimedia Engineering Technology

Bachelor of Computer and Communication Systems Engineering

JOURNAL REVIEWER

Radiation Physics and Society

IEEE Access

IEEE Transactions on Neural Network

Computer Methods and Programs in Biomedicine

Computer Methods in Biomechanics and Biomedical Engineering

Reviews in Biomedical Engineering

Journal of Sensors

and many more...

Teaching Experience

COURSES TAUGHT

Undergraduate: Computer Programming, Microprocessor, Multimedia Systems Engineering, Embedded Systems, Imaging Systems, Audio and Video Technology, Engineering Mathematics, Project Management

Postgraduate: Medical Imaging, Research Methodology, Special Topics, Digital Image Processing