

MEMORANDUM OF AGREEMENT

BETWEEN

**ASIA PACIFIC UNIVERSITY
OF TECHNOLOGY AND INNOVATION,
KUALA LUMPUR, MALAYSIA**

AND

**VEL TECH RANGARAJAN Dr.SAGUNTHALA
R&D INSTITUTE OF SCIENCE AND
TECHNOLOGY
(Veltech Dr. RR & Dr.SR University),
CHENNAI, INDIA**

MEMORANDUM OF AGREEMENT

This Memorandum of Agreement (hereinafter referred to as MoA) is signed on the 15th day of November 2017.

BETWEEN

Asia Pacific University of Technology and Innovation (hereinafter referred to as APU) with its registered location at **Technology Park Malaysia, Bukit Jalil, 57000 Kuala Lumpur, Malaysia** and shall include its lawful representatives and permitted assigns;

AND

Veltech Dr.RR & Dr.SR University (hereinafter referred to as Veltech) with its registered location at **Outer Ring Road, Avadi, Chennai – 600 062, Tamil Nadu, India** and shall include its lawful representatives and permitted assigns;

Hereinafter referred to singularly as “the Party” and collectively as “the Parties”.

The Parties are desirous of entering into this Memorandum of Agreement to declare their respective intentions and to establish a basis of co-operation and collaboration between the Parties upon the terms as contained herein.

HAVE REACHED AN AGREEMENT as follows:

ARTICLE 1: OBJECTIVE

The Parties, subject to the terms of this MoA and the laws, rules, regulations and national policies from time to time in force in each Party's country, will endeavor to strengthen, promote and develop co-operation between the Parties on the basis of equality and mutual benefit.

ARTICLE 2: AREAS OF CO-OPERATION

1. Subject to the law, rules, regulations and national policies from time to time in force, governing the subject matter in their respective countries, each Party will act as a stimulus for a wide range of collaborative activities including but not restricted to:
 - Promote contacts among scholars, students and personnel of both scientific institutions,
 - Develop and to encourage joint research, seminars, conferences, workshops, and to also assist each other in obtaining external funding from outside sources for research,
 - Develop and promote, when opportunities avail, links in teaching, research and joint study/research programmes,
 - Encourage any other activities that both scientific institutions agree to be of mutual benefit,

- Identify any other areas of co-operation for strategic alliance to be mutually agreed upon by the Parties.
2. For the purpose of implementing the co-operation in respect of any area stated in paragraph 1, the parties will enter into a legally binding agreement subject to terms and conditions as mutually agreed upon by the Parties and this agreement will be subject to and not separable from this MoA.

ARTICLE 3: FINANCIAL ARRANGEMENTS

This MoA will not give rise to any financial obligation by one Party to the other. Each party will bear its own cost and expenses in relation to this MoA. All the financial issues emerging from the implementation of any joint projects must be negotiated and determined between the two parties case by case.

ARTICLE 4: EFFECT OF MEMORANDUM OF AGREEMENT

This MoA serves only as a record of the Parties' intentions and does not constitute or create, and is not intended to constitute or create obligations under domestic or international law and will not give rise to any legal processes and will not be deemed to constitute or create any legally binding or enforceable obligations, express or implied.

ARTICLE 5: NO AGENCY

Nothing contained herein is to be construed so as to constitute a joint venture partnership or formal business organization of any kind between the Parties or so to constitute either Party as the agent of the other.

ARTICLE 6: ENTRY INTO EFFECT AND DURATION

1. This MoA will come into effect on the date of signing and will remain in force for a period of three (3) years.
2. This MoA may be extended for a further period as may be agreed in writing by the Parties.
3. This MoA may be terminated at any time by either party giving the other party written notice of no less than ONE (1) calendar month upon breach of the terms governing the MoA. However the existing joint programme, if any, should be completed by both the parties irrespective of the termination of MoA.

ARTICLE 7: NOTICES

Any communication under this MoA will be in writing in the English language and delivered by registered mail to the address or sent to the electronic mail address of **APU** or **Veltech** as the case may be, shown below or to such other address or electronic mail address or facsimile number as either party may have notified the sender and shall, unless otherwise provided herein, be deemed to be duly given or made when delivered to the recipient at such address or electronic mail address or facsimile number which is duly acknowledged:

To : **APU**
Attn to : Professor Dr R Logeswaran
Address : Technology Park Malaysia, Bukit Jalil,
57000 Kuala Lumpur, Malaysia
Tel no. : +603-89961000/ 8992 5179
E-mail : logeswaran@apu.edu.my / loges@ieee.org

To : **Veltech**
Attn to : Dr S Sivaperumal
Address : Directorate of International Relations,
Veltech Dr.RR & Dr.SR University
Chennai, India
Tel no. : +91-96000 40255
E-mail : dint@veltechuniv.edu.in

ARTICLE 8: PROTECTION OF INTELLECTUAL PROPERTY RIGHTS

1. The protection of intellectual property rights shall enforced in conformity with the respective national laws, rules and regulations of the Parties and with international agreements signed by both Parties.
2. The use of the name, logo and/or official emblem of any of the Parties on any publication, document and/or paper is prohibited without the prior written approval of either Party.
3. Notwithstanding anything in paragraph 1 above, the intellectual property rights in respect of any technological development, and any products and services development, carried out –
 - (i) jointly by the Parties or research results obtained through the joint activity effort of the Parties, shall be jointly owned by the Parties in accordance with the terms to be mutually agreed upon; and
 - (ii) Solely and separately by the Party or the research results obtained through the sole and separate effort of the Party, shall be solely owned by the Party concerned.

ARTICLE 9: CONFIDENTIALITY

1. Each Party shall undertake to observe the confidentiality and secrecy of document, information and other data received from or supplied to, the other Party during the period of the implementation of this MoA or any other agreements made pursuant to this MoA.
2. For purpose of paragraph 1 above, such documents, information and data include any document, information and data which is disclosed by a Party (the Disclosing party) to the other Party (the Receiving party) prior to, or after, the execution of this MoA, involving technical, business, marketing, policy, know-how, planning, project management and other documents, information, data and/or solutions in any form, including but not limited to any document, information or data which is designated in writing to be confidential or by its nature intended to be for the knowledge of the Receiving Party or if orally given, is given in the circumstances of confidence.

3. Both Parties agree that the provisions of this Article shall continue to be binding between the Parties notwithstanding the termination of this MoA.

ARTICLE 10: SUSPENSION

Each Party reserves the right for reasons of national security, national interest, public order health to suspend temporarily either in whole or in part, the implementation of this MoA, where suspension shall take effect immediately after notification has been given to the other Party through diplomatic channels.

ARTICLE 11: SETTLEMENT OF DISPUTES

Any difference or dispute between the Parties concerning the interpretation and/or implementation and/or application of any of the provisions of this MoA shall be settled amicably through mutual consultation and/or negotiations between the Parties through diplomatic channels, without reference to any third party or international tribunal.

ARTICLE 12: VARIATION

The terms stipulated in this MoA shall not be amended, altered, changed or otherwise modified without the mutual consent of the Parties and such amendments, alterations, changes and modifications shall be made in writing and signed by the Parties hereto.

The foregoing record represents the understandings reached between **APU** and **Veltech** upon the matters referred to therein.

Signed by
For and on behalf of APU
Professor Dr. Ron Edwards
Vice Chancellor

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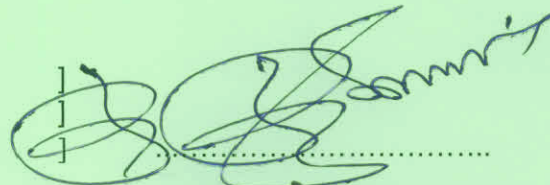
Witnessed by
Professor Dr. R.Logeswaran
Professor, FCET

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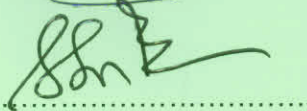
Signed by
For and on behalf of Veltech
Col. Prof. Dr. R.Rangarajana
Founder Chancellor & President

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Witnessed by
Dr.S.Sivaperumal
Director for International Relations

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Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Asia Pacific University of Technology and Innovation, Malaysia

Name of the Research Institute/University/ Organization	Country	Duration of the Agreement	Academic Year	Date of Signing	Date of Expiry	Purpose/Activities
Asia Pacific University of Technology and Innovation	Malaysia	Unlimited Period	2017-18	02.01.2018	Unlimited Period	Promote contact among scholars, students and personnel; Joint Research, seminar, conferences, workshops, to assist each other in obtaining external funding from outside sources for research; develop and promote joint study / research programme;

Actual Activities with Asia Pacific University of Technology and Innovation, Malaysia	
A.Y. 2017-18	Faculty Mobility (Incoming - Short Courses) - 1
A.Y. 2018-19	Faculty Mobility (Incoming - Short Courses) - 2


MoU Coordinator



Dean - International Relations


Dr. P. Suresh
Dean - International Relations

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Computing

Department of Computer Science Engineering

Specialized one credit course on

**“Data Science: Fundamentals opportunities & Recent
Advance”**

(1157CS912)

by

Prof. Dr.R.Logeswaran

Asia Pacific University, Malaysia



Held on

Date: December 27 to 29, 2017

Curricular Vitae
Prof. Dr. R. LOGESWARAN

Name (as in passport) : R. LOGESWARAN A/L N. RAJASVARAN
Name in publications : LOGESWARAN, Rajasvaran
Nationality : Malaysian
Gender & Status : Male (married)
Contact Information : loges@ieee.org (email), +6013-3942034 (tel.)
Address : 25, Jalan PU9/6B, Taman Puchong Utama,
47140 Puchong, Selangor, Malaysia



ACADEMIC QUALIFICATIONS

- 2006 **Doctor of Philosophy - Ph.D. (Engineering)**, Multimedia University, Malaysia.
(title: "Computer-aided Detection, Modelling and Diagnostic Techniques for Biliary Structure using MRCP").
- 2000 **Master of Engineering Science - M.Eng.Sc.**, Multimedia University, Malaysia
(title: "Neural Network Based Lossless Data Compression Schemes For Telemetry Data").
- 1997 **BEng. (Hons) Computing**, University of London, United Kingdom – (2nd Class Upper)
(Imperial College of Science, Technology and Medicine, London, United Kingdom).
- 1994 **GCE A-Levels**, MARA Science College Kuala Lumpur (MSMKL), Malaysia – (6A's).
- 1991 **Sijil Pelajaran Malaysia** (O-Levels), La Salle Klang secondary school, Malaysia – (Grade 1, 8A's).

CERTIFICATIONS

- 2012 IC Digital Citizen certification, Certiport, USA.
- 2012 1CiTiZEN Certification Programme Trainer, Ministry of Higher Education (KPT), Malaysia.
- 2010 Data Center Advanced Technical Specialist (DCATS), Novell.
- 2010 Data Center Technical Specialist (DTCS), Novell.
- 2008 Novell Certified Linux Professional (NCLP) – SUSE Linux Enterprise Server 10.
- 2008 Novell Certified Linux Administrator (NCLA).
- 2008 Linux Technical Specialist, Novell.

WORK EXPERIENCE

- **Asia Pacific University of Technology & Innovation (APU)**

- 2015 Jan-current *Professor*, Faculty of Computing, Engineering & Technology (FCET).
2015 Jan-2017 Jan *Dean*, School of Postgraduate Studies (SoPG).

Main administrative roles include:

- Chairman, *Centre for Edutainment and Educational Technologies* (CEET, 2015-).
- Chairman, *University Postgraduate And Research Committee* (PARC, 2015-2016).
- Chairman, *University & Faculty Appeals Committees* (2015-2016).
- Chairman, *University Modular Examination Boards and University Modular Awards Boards* (2015-2016).
- Chairman, *Programme Committee Meetings for PhD and Masters programmes* (PCM, 2015-2016).
- Chairman, *New Programmes Development Committee* (FCET, 2015).
- Core Member, *Asia Pacific Centre for Analytics* (APCA, 2015-).
- Dean overseeing all postgraduate programmes (PhD, MPhil, taught Masters) at the various faculties at APU (2015-2016).
- Member of the *Senate, Senior Management Team (SMT), Academic Management Committee (AMC), Quality Assurance Board (QAB), Academic Development Committee (ADC), Professorial Appointment Committee (PAC)*, etc.

- **Nilai University (NILAI U), Malaysia**

- 2011 Oct-2015 Jan *Dean*, Faculty of Engineering, Science and Technology (FEST).
2013 May-2015 Jan *Professor*, Department of Engineering.
2011 Oct-2013 May *Associate Professor (I)*, Department of Engineering.

Main administrative roles include:

- Chairman, *Academic Disciplinary Committee* (2012-2013).
- Chairman, *Research Management Centre* (RMC) (2013-2014).
- Chairman / Team Manager / Chef de Mission, *NILAI U Campus Games* (FEST – 1st prize) (2011-2012).
- Chairman, *Faculty Curriculum Review Committee*, *Faculty Lab Management Committee* (2011-2014).
- Member of the *Senate* (Senate), *Academic Heads* (HODs) meeting, *Senior Management* meeting (SMM), *Operations* (Ops) meeting, *Coordination & Implementation* meeting (CIM), *Research Innovation Centre* (RIC), *Research Grants Screening* committee, *MyGrants* coordinator (2011-2014).
- Development of *NILAI U Strategic Plans*, *Business Plans*, *Collaboration* initiatives (2011-2014).
- Dean of the largest faculty, comprising of 4 departments (Aircraft Maintenance, Applied Sciences, Computing, Engineering), 19 programmes, purchasing & procurement, budget planning, appraisals & target setting, franchise programmes, dual-award programmes, EAC & MQA accreditation, implementation & enforcement, etc. (2011-2014).
- Marketing activities, Orientation briefing speaker, Exciting Engineering speaker, Foundation students progression briefing speaker, Open Days, Convocations, VIP for many events, Book launch, MOU signing, etc. (2011-2014).

• **Multimedia University (MMU), Malaysia**

2015 Jan-2016 Dec	Adjunct Professor, Faculty of Engineering (FOE)
2011 Dec-2014 Dec	Adjunct Associate Professor, Faculty of Engineering (FOE)
2011 Mar-2011 Oct	Deputy Dean, Institute for Postgraduate Studies (IPS).
2010 Dec-2011 Feb	Acting Dean, Faculty of Engineering (FOE).
2010 Jan -Dec	Deputy Dean, Faculty of Engineering (FOE).
2009 Jul -2011 Nov	Associate Professor (B), Faculty of Engineering (FOE).
2005 -2011	Program Coordinator, Bachelor of Multimedia (Hons) Computer and Digital Art.
2005 May-2008 Feb	Deputy Head, Reserve Military Training Unit (RMTU).
2004 May-2009 Jun	Senior Lecturer, Faculty of Engineering (FOE).
2003	Assistant Program Coordinator, B.Eng. (Hons) Electronics majoring in Computer.
2000 Jul -2004 Apr	Lecturer, Faculty of Engineering (FOE).
1997 Nov-2000 Jul	Tutor, Multimedia University / Universiti Telekom (Melaka & Cyberjaya), Malaysia.

Main administrative roles include:

- Advisor & Task Force Head (Design & Development), *Homepage Committee*, (FOE, 1998-2008).
- Technical Advisor & developer of Faculty of Engineering electronic *Handbook* (2001-2005).
- Lab Tour leader, Designer of posters/banners/booth/slideshow/flyer, Academic advisor, Seminar speaker, *MMU Open Day* (2005-2007).
- Co-opt committee & System Administrator, international *Multimedia Cyberscape Journal* (2000-2008).
- Evaluator, *MMU IRPA Review Panel* for completed projects (2006).
- Committee Member, *e-Science Fund Internal Screening Committee* (2006-2011).
- Member of the Senate, Dean's Council, Centre of Excellence, Chairman of Faculty Board, Chairman of Image & Video Processing Special Interest Group, Group Leader for Industrial Training Committee, Subject Coordinator, etc. (2006-2011).
- Involved in marketing activities, budgeting, Open days, Convocations, talks, franchise programme, EAC & MQA accreditation visits, etc. (1997-2011).

• **Soongsil University (SSU), Seoul, Korea**

2008 Mar-2009 Mar	Assistant Professor, School of Media, College of Information Science.
2007 Nov-2008 Dec	Post-doctoral researcher, Human-Centered Interface Lab, Department of Media.

• **Others – Malaysia, United States of America (USA), United Kingdom (UK)**

1997 Aug-1998 Jan	Executive Trainee (Management Trainee Program), Telekom Malaysia, Malaysia.
1996 Oct-Dec	HelpDesk volunteer, Department of Computing Society, Imperial College, U.K.
1995 Jul-Sept	Food Host, Cedar Point, Sandusky, Ohio, USA ("Work America" student exchange work & travel programme).
1994 Jul-Aug	Practical Trainee, Project TeAMS, Telekom Malaysia, Kuala Pauh, Malaysia.
1991 Nov-1992 Feb	Line operator, BP Petroleum & lubrication factory, Port Klang, Malaysia.

ATTAINMENT OF POSITIONS OF RESPONSIBILITY & EXPERIENCE

CONSULTANT:

Have had the opportunity to render specialised service to various industries in terms of development, evaluation and training. Some of the notable ones are as follows:

- **Senior Consultant** (My Bytes Sdn. Bhd.), Development of Cyberjaya RoadMap 2011-2015 project (Multimedia Development Corporation / MDeC, 2010-2011).
- **Technology Assessment Consultant** for Multimedia Grant Scheme (MGS) under MDeC:
 - i) Insurance Business Intelligence Service Automation (iBiz, 2002-2005).
 - ii) Intelligence Analytical Application for Retail Industry (eInsightView, 2007).
 - iii) Intelligent Assistance & Service Agent (IASA, 2007).
 - iv) Ezytouch Predictive Dialer application & Hosted IP contact center solution (Ezytouch, 2007).
 - v) Alpha Prime digital intermediate service (AP, 2007).
 - vi) Bluguard ALPA (ALPA, 2008-2010).
 - vii) SLED-OCT (SELD-OCT, 2009).
- **Technical Due Diligence Consultant**, for venture capitalists (2002).
- **National Screening Committee**, *Fundamental Research Grant Scheme (FRGS)* (2009-2011).
- **Program Champion**, 1CiTiZEN certification at NILAI U (Ministry of Education, 2012-2014).
- **Counterpart (Content Development Task Force) & System Administrator**, Malaysia-Japan *Multimedia Tele-education System project (NMES)* (JICA, 2000-2008).
- **Judge / Evaluator:**
 - i) Young Inventors Challenge inter-school ASEAN-level competition (Association of Science, Technology and Innovation - ASTI, 2014-2016).
 - ii) Science Fair for Young Children inter-school national-level (Malaysia) competition (Dharra Foundation 2012, 2014-2015).
 - iii) IEEE Malaysia FYP Competition inter-university national-level (Malaysia) online final year project competition (IEEE Malaysia Section, 2014).
 - iv) Science Fair for Young Children inter-school (over 100 schools) Zone/state-level (Selangor and Federal Territory) competition (2010, 2011, 2012, 2014).
 - v) IEEE SPS Malaysia Best FYP Competition (UNITEN 2012, UPM 2014-2015, IEEE Malaysia 2014-2015).
 - vi) MMU-Level Business Plan Competition 2010-2011 (2010).
- **Short courses Consultant:**
 - i) "Data Compression Strategies" (IEEE SPS Malaysia, 2014).
 - ii) "Data Compression Fundamentals, Concepts & Applications" (Astronautic Technology (M) Sdn. Bhd. / ATSB, 2009).
 - iii) "UML & Software Development" (Finisar Malaysia Sdn. Bhd., 2006).
- **Website Consultant:**
 - i) *Hospital Selayang* web site development (Ministry of Health, Malaysia, 2001).
 - ii) *Askar Wataniah Malaysia* web site development (Ministry of Defence, Malaysia, 2001).
 - iii) Webmaster, *Rejimen 502AW, Batalion 1 & JAKPAW Selangor* websites (2003-2011).

ADMINISTRATOR:

Possess administrative skills which have been proven through responsibilities such as:

- **Professional / External**
 - i) Chairman (2010) / Secretary (2009) / Treasurer (2006-2007, 2009, 2014) / Committee (2011, 2012), *Cyberia Smart Homes, Cyberjaya Joint Management Body*. (Note: 2006-2008, *Pre-Management Corporation (PMC) committee*) (CSH, 2006-2015).
 - ii) Secretary (2007) / Webmaster (2006-2007) / Committee Member (2006) / Auditor (2005), *IEEE Computer Society (Malaysia Section)* (2005-2007).
 - iii) Asst. Company Commander (2013-) / Platoon Commander (2006-2012), *Regiment 502AW (Askar Wataniah)* (Ministry of Defence Malaysia, 2006-).
 - iv) Committee Member, *Selangor Territorial Army Welfare Association / Persatuan Kebajikan Anggota Sukarela Rejimen 502 Askar Wataniah Selangor* (PERASAS 502, 2010).
 - v) Team Member (MMU) for international *RSA Lab RC5 64-bit cryptography challenge* (1998-2004); and international *CSC cryptography challenge* (1999-2000).

- vi) Director (Lights & Sound for Malaysian Nite '95 and '96) / Committee Member, *Imperial College Malaysian Society (ICMS)* (IC 1995-1997).
- **University-level** (in additional to those already mentioned)
 - i) Senate Member, *University Senate* (MMU, 2010-2011; NILAI U, 2011-2014; APU, 2015-).
 - ii) Chairman, *Student Disciplinary Board* (MMU, 2009; NILAI U, 2013-2014).
 - iii) Chief Floor Warden, *Building Emergency Evacuation Committee* (FOE) (MMU, 2009).
 - iv) Coordinator, *Board of Postgraduate Studies* (2011).
 - v) Coordinator / Advisor / System Administrator, *Faculty of Engineering servers* (MMU, 1998-2006).
 - vi) Advisor, *Reserve Military Elite Club (RMEC)* (MMU, 1998-2008), *Institution of Engineers, Malaysia (IEM) MMU Student branch* (MMU, 2008-2011), *IEEE MMU Student branch* (MMU, 2009-2011), *Engineering Society (EngSoc)* (MMU, 2010-2011).
 - vii) Committee Member, *Management (Operations) Meeting, Senior Management Meeting, Coordination & Implementation Meeting*, *Academic Heads of Department* (NILAI U, 2011-2014).
 - viii) Committee Member, *Deans Council, Academic Development Committee, University Think-Tank Task Force, Judgment Committee* (MMU, 2008-2011, APU, 2015-).
 - ix) Committee Member, *Professorship Selection Committee* (NILAI U, 2014; APU, 2015-).
 - x) Committee Member, Open Source task force, *IT Council* (MMU, 2003).
 - xi) Liaison Officer, *MMU Press* (MMU, 2004), *Faculty of Engineering student affairs* (FOE MMU, 2009).
 - xii) Vice President / Executive Vice President, *Department of Computing Society (DoCSoc)*, Imperial College of Science, Technology & Medicine, United Kingdom (IC, 1995-1997).
 - xiii) *Students' Representative Council* / Secretariat Head (Hostel & Cafeteria) / Project Director of several projects, *Maktab Sains MARA Kuala Lumpur* (MSMKL, 1992-1994).
 - xiv) Experienced in managing:
 - 5 Head of Departments, 2 Managers, 6 Assistant managers, 27 Lab staff, 2 Secretaries, 1 Administrative assistant, 7 Clerks, > 250 academics (MMU & NILAI U & APU, 1998-).
 - 2 faculties (FOE MMU & FEST NILAI U, 2010-); 2 postgraduate institute (IPS MMU, 2011; SoPG APU, 2015-); 3 administrative departments (RMTU MMU, 2005-2008; Incubator Centre, RMC NILAI U, 2011-2014); > 50 Labs & Workshops (MMU & NILAI U, 2002-2014).
- **Faculty-level** (in additional to those already mentioned)
 - i) Chairman, *Faculty Board, Strategic Planning Committee, Lab Management Committee (LMC)* (MMU, 2010-2011; NILAI U, 2011-2014).
 - ii) Chairman, *Student Academic Affairs Committee, MMU Open Day Committee (SAAC)* (FOE MMU, 2009-2011).
 - iii) Lab Supervisor, *Project Labs 1, 2 & 3, Faculty of Engineering* (FOE MMU, 2002-2009).
 - iv) Committee Member, *Business Unit, Purchase Evaluation Committee, Self Assessment Committee* (FOE MMU, 2008-2009).

RESEARCH LEADERSHIP:

Have had the experience in planning, procuring funding, managing manpower & resources, leading, undertaking research and development, documenting, presenting and publishing in many projects, including the following:

- Chairman, *Research & Development Committee* (FOE MMU, 2010-2011).
- Deputy Chairman, *Centre for Image Processing and Telemedicine* (CIPTM MMU, 2004-2008).
- Secretary / Coordinator, *Centre for Multimedia Communications* (CMMC MMU, 1999-2001).
- Group Leader, *Image & Video Processing (IVP) Special Interest Group (SIG), Centre for Multimedia Security & Signal Processing* (CMSSP MMU, 2009-2011).
- **Project Leader**
 - i) "Development of an Automated Optical Coherence Tomography Detection System for Retinal Structure Abnormalities" (RM 90,000 for Ph.D. GRA, MMU, 2010-2013).
 - ii) "Development of An Improved Optical Coherence Tomography Automated Disease Detection System" (RM 16,000 MMU Seed Fund, 2010).
 - iii) "Design and Performance Analysis of Optical Coherence Tomography Automated Disease Detection in Ophthalmology" (RM 17,000 MMU Seed Fund, 2009).
 - iv) "Multi-Touch Image Analysis and Object Recognition" (RM 50,400 for Masters GRA, MMU, 2009-2010).
 - v) "Multi-Disorder Detection via Automated Analysis of Magnetic Resonance Imaging Protocols" (RM 50,400 for Masters GRA, MMU, 2009-2010).

- vi) *"Improved Biliary Detection and Diagnosis through Multiresolution Analysis (I-BDeDiMA)"* (RM 87,000, Brain Gain Malaysia grant under MOSTI and Academy of Sciences, Malaysia, 2008).
- vii) *"Image Processing and Computer Vision, Multimedia Processing & Machine Learning Approach for Image Processing"* (KRW 24,000,000, Brain Korea21 grant under Ministry of Human Resource, Korea & Soongsil University, Korea, 2007-2008).
- viii) *"Computer Aided Medical Image Analysis for Intra-operative Low-Field MRI in Neurosurgery"* (RM 119,000 Science Fund grant under MOSTI, Malaysia, 2007-2009).
- ix) *"Computer Aided Medical Image Diagnostic System for Liver Diseases"* (RM 109,400 IRPA grant under Ministry of Science, Technology & Innovation - MOSTI, Malaysia, 2004-2007).
- x) *"Automated Biliary Tree Analysis using MRCP"* (MMU-Hospital Selayang, 2001-2006).
- xi) *"Development of New Lossy & Lossless Algorithms for Data Compression"* (MMU, 1998-2002).

- **Researcher**

- i) *"Automated Diagnosis and Prognosis of Chronic Wounds for e-Health Applications"* (RM 194,600 Science Fund grant under MOSTI, Malaysia, 2017-2019).
- ii) *"Design and Development of Multicast Key Management and Data Delivery Method over Wireless IPv6 Networks - An Empirical Implementation"* (RM 15,000, NILAI U Internal Research Grant, 2013-2014).
- iii) *"Design and Development of New Natural User Interface Module and Cost Effective Camera-based Multi-touch Tabletop to Enhance Teaching and Learning in Institution of Higher Learning"* (RM 40,000 TM R&D Grant, 2010-2012).
- iv) *"Design & Development of Technology-enhanced Multi-touch Tabletop Home Controlling System"* (RM 59,350 Penang ICT Chair Research Grant, 2010).
- v) *"Design & Development of Content Based Medical Imaging Retrieval System"* (RM 90,000 for Ph.D. GRA, MMU, 2010-2012).
- vi) *"Development of Automated Decision Support System for Diabetic Retinopathy Disease"* (RM 101,500 ScienceFund grant, MOSTI, 2006-2008).
- vii) *"Development of Content-And-Semantics-Based Image Retrieval System for Medical Applications"* (RM 87,250 ScienceFund grant, MOSTI, 2006-2008).
- viii) *"Design of a Setup For 3D Ultrasound Using Visual Probe Tracking"* (2002-2006).
- ix) *"Optimisation Of Digital Manipulations of Medical Images" / "Digitisation, Lossy Compression and Visualisation in Cost-Effective Telehealth Environment"* (2002-2004).
- x) *"Performance Simulations for TINA Networks"* (USD 40,000 TINA Consortium grant, 2001-2004).
- xi) *"Intelligent Systems in Medical Image Analysis and Their Impact on Image Compression in Telemedicine"* (2001-2003).
- xii) *"Networked Multimedia Education System"* (RM 15 million Japanese International Cooperation Agency JICA, 2000-2008).

EVENT ORGANISER:

Have assisted in organising many events. The more prominent roles undertaken:

- **International**

- i) International Advisory Panel, *National Conference on Emerging Trends & Transformations in Engineering & Technology*, Chennai, India (NC2(ET), 2017)
- ii) International Advisory Panel, *International Conference on Computer, Communication and Signal Processing (ICCCSP 2016)*
- iii) International Advisory Panel, *International Conference on Engineering and Scientific Innovations (ICESI 2015)*.
- iv) Advisory Committee Panel, *International Conference on Biosignal Analysis, Processing and System (ICBAPS 2015)*.
- v) General Chair (2013), General Co-chair (2017), Finance Chair (2011), Local Arrangements Chair (2009), Publicity & Website Chair (2015), Session Chair (2009-), *IEEE International Conference on Signal and Image Processing Applications (IEEE ICSIPA, 2009-2017)*.
- vi) General Chair (2017), Organising Committee (2010-2016), *Symposium on Image Processing, Image Analysis and Real-Time Imaging (IPIARTI, 2010-2017)*.
- vii) General Co-chair, *IEEE Student Conference of Research and Development (IEEE SCORd, 2011)*.
- viii) Publicity & Website Chair, *IEEE Signal Processing Society Seasonal School (Winter School, 2016)*.
- ix) Local Arrangements Chair, Session Chair, *IEEE International Conference on Industrial Engineering and Engineering Management (IEEM, 2014)*.

- x) Local Organising Chairman (2001), Technical Committee coordinator (2007), Webmaster (2000-2001), Local Organisation (2004-2006), Session Chair (2004), Reviewer (2006-2007), *MMU International Symposium on Information & Communications Technologies* (M²USIC, 2001-2007).
- xi) Technical Program Committee Co-Chair, *International Conference on Information Networking 2011* (ICOIN 2011).
- xii) Local Organisation, *Asia Pacific Wireless Broadband Forum* (AP-WBF, 2005-2006).
- xiii) Local Organisation & Session Chair, *IEEE Malaysia International Conference on Communications* (MICC-LiSLO-ISCE, 2001).
- xiv) Technical Committee, *3rd Asia Pacific Telecommunity Telemedicine Workshop 2005* (APT, 2005).
- xv) Webmaster, *Telecommunications Information Networking Architecture* (TINA, 2002).
- xvi) Organising Committee, *Symposium on Symposium on Acoustics, Speech and Signal Processing* (SASSP, 2013-2017).

- **Local**

- i) Chairman, *Big Data Analytics Seminar 2016* for the APU Data Science Week 2016 and Big Data Week Asia 2016 (DSW, 2016).
- ii) Steering Committee & co-organiser, *IEEE Conference on Innovative Technologies in Intelligent Systems & Industrial Applications & Exhibition* (CITISIA, 2008).
- iii) Local Organisation & Session Chair, *Real-time Technology and Applications Symposium* (RENTAS, 2006).
- iv) Organising Committee, *Professional Development Workshop Series* (PDWS, 2016).
- v) Co-organiser, *MMU-TechSource "The Ultimate Computing Environment for Technical Education" Seminar & Exhibition* (2000).
- vi) Co-organiser, *MMU-Ministry of Defense Exhibition* and Recruitment drive at MMU (1998-2004).

COLLABORATION:

Working with collaborative partners has enriched my experience and skills in communication with various levels, critical thinking, practical & timely development, knowledge, troubleshooting and adapting to various environments. Some notable collaborative roles include:

- **International**

- i) Leader / Initiator for Memoranda of Agreement (MOA) for various research, staff & student exchange and teaching & learning collaborations between APU and:
 - Krabi Technical College, Krabi, Thailand (2017-2019)
 - Anil Neerukonda Institute of Technology and Sciences, Visakhapatnam, India (2017-2019)
 - Vels University, Chennai, India (2016-2018)
 - Amity University, Noida (New Delhi), India (2016-2018)
 - RMIT Vietnam, Vietnam (2016-2018)
 - QuestionPro, USA (2016-2018)
 - Villa College, Male, Republic of Maldives (2015-2017)
 - Telekom Malaysia (TM) (2016-2017)
 - Immanuel Arasar JJ College of Engineering, Kanyakumari, India (2015-2017)
 - SAS Institute, Malaysia (2015-2016)
- ii) Leader for collaboration with the *Media Arts, Graphics and Interactive Content (MAGIC)* Lab and *Human-Centered Interface (HCI)* Lab at Soongsil University (Korea, 2008-2009).
- iii) Coordination with *Staffordshire University* (UK), *Oxford Brookes University* (UK), *Kingston University London* (UK), *University of West England* (UWE), *Sheffield Hallam University* (UK), *Birmingham City University* (UK), *Manchester Metropolitan University* (UK), *Carlow Institute of Technology* (Ireland), *California Baptist University* (USA), *University of San Carlos* (Philippines) (NILAI U, 2011-).
- iv) Representative to *1st German-Malaysia-Indonesia Academic & Cultural Workshop* (2000), *MMU-PTIT (Vietnam)* (2000), *MMU-Motorola University* (2001), *MMU-JICA Sri Lanka* (2005), *MMU-Maharakham University (Thailand)* (2007) collaboration initiatives (MMU, 2000-2007).

- **Local**

- i) Leader for Knowledge Technology collaboration initiative with MIMOS (MMU, 2006).
- ii) Leader and collaborator of several medical research projects with *Hospital Selayang* (2001-2007), *Hospital Putrajaya* (2006-2010) and the *International Specialist Eye Centre* (ISEC, 2009-2011).
- iii) Leader for MMU collaborations with *Macromedia / RQNet / Intranesis Communications* (2000-2007), *Infortech MSC* (2000-2001) and River Basin project with *KTA Tenaga* (2005).

- iv) Faculty Champion for *External Competitions* (FOE MMU, 2006-2007).
- v) Representative to MMU-Philips Malaysia (2001), MMU-Motorola University (2001), MMU-Daya Dynamics (2001), MMU-MIMOS (2007) collaboration initiatives (MMU, 2001-2007).

TEACHING:

The primary role of an academic is teaching, but this comes in many facets, ranging from direct teaching, evaluation of 'teachers', planning and implementation of syllabus and course structures, to policy making at the various levels:

- **Courses Taught** – Lecturer / Coordinator / Moderator / Examiner / Tutor / Lab Instructor for Postgraduate, Undergraduate and Diploma levels:

APU (2015-)

- Research supervision (Masters/PhD)
- MSc Dissertation (Masters)
- Engineering Software & Applications
- Further Artificial Intelligence
- FYP Project 1 & 2

- Operating Systems
- Engineer & Society
- Object Oriented Programming
- Computer & Engineer
- Communication Devices
- FYP Project 1 & 2

NILAI U (2011-2014)

- Fundamentals of Communication Theory
- Energy Management
- Understanding Engineering
- Industrial Engineering & Management

SSU, Korea (2008)

- Special Topics in Computer Vision (Masters/PhD)
- Data Compression (Masters/PhD)
- Programming 1 & Lab
- Linear Algebra

MMU (2002-2017)

- Research Methodology (Masters, PhD)
- Compiler & Translator
- Software Engineering
- Database Systems

UniKL-MFI (2004)

- Data Networking & Telecommunications

- **Short Courses** – designed and instructed in:

- i) Web Design for Army (2000), IEE MMU Student Chapter (2003), Secondary school students (2002).
- ii) PowerPoint in Teaching for school teachers (2002).
- iii) Agile Technologies for industry (2006).
- iv) Data Compression for industry (2009).

- **Supervision**

- i) 10 PhD, 6 Masters, 40 undergraduate project students (2001-).
- ii) 9 Research Officers, 2 GRAs, > 25 researchers (CIPTM & CMMSP MMU, 2000-2014; NILAI).

- **Examination & Accreditation**

- i) Chairman, Examination Board (FEST NILAI U, 2011-).
- ii) Auditor, Pre-accreditation Audit for Engineering Programmes (FOE MMU, 2010).
- iii) Committee member, Examination Rules and Regulations Committee, Postgraduate English Interview Committee, Research & Innovation Committee (FOE MMU, 2006-2010).
- iv) Faculty expert, evaluation panel of postgraduate (PhD and MEngSc) proposal defence and work completion seminars (FOE MMU, 2004-2013).
- v) Been involved and coordinated accreditation visits by the Engineering Accreditation Council (EAC) and Malaysian Qualifications Agency (MQA) at the faculty and university levels for various programmes (2006-).

- **Programme Development**

- i) Design new programmes, Bachelor of Technology degree programme (FOE MMU, 2009), Certificate in Automotive Sales (NILAI U, 2013), Diploma in Automotive Engineering (NILAI U, 2013-2014), Masters of Engineering Science (NILAI U, 2013-2014), MSc. Biotechnology (NILAI U, 2013-2014), PhD. Engineering (NILAI U 2013-2014), MSc in Data Science and Business Analytics (APU, 2015), MSc in Digital Security and Forensics (APU, 2015), PhD in Engineering (APU, 2015), MPhil in Engineering (APU, 2015).
- ii) Outcome based Learning syllabus revision committee member for Engineer & Society, Operating Systems and Software Engineering (FOE MMU, 2004-2005); Project 1 & 2, Energy Management, Understanding Engineering and Industrial Engineering Management (2012-2014).

- iii) Academic & Corporate Planning committee (FOE MMU, 2006-2010).
- iv) Educational Innovation Committee, for university-wide *e-learning policy* setting (MMU, 2007-2010).
- v) University Teaching Observer, evaluate teaching performance of new staff (MMU, 2004-2008).
- **Intake Assessment**
 - i) Career Counsellor / Advisor, B.M.M. (Hons) Computer & Digital Art students (FOE MMU, 2007).
 - ii) Credit Transfer committee (FOE MMU, 2004-2010).
 - iii) Evaluation Committee, *computer engineering* degree intake of Diploma holders (MMU, 2006-2011).
 - iv) Intensive Research Proposal Writing Workshop 1/2009 – facilitator (MMU, 2009).

KEYNOTE SPEAKER / INVITED SPEAKER / GUEST LECTURE:

At international and local platforms including:

- Guest of Honour & Keynote Speaker of the International Conference on Smart Computing & Informatics (SCI 2017), Visakhapatnam, India (2017).
- Keynote Speaker at the International Conference of Contemporary Topics in Power Engineering and Aiding Technologies (ICCPEAT 2017), Pondicherry, India (2017).
- Keynote Speaker at the 7th International Conference on Cloud System and Big Data Engineering (CONFLUENCE 2017), Noida, New Delhi, India (2017).
- Chief Guest & Keynote Speaker at the International Conference on Recent Innovations in Science Engineering and Technology (ICRISET'16 & ICRISET'17), Kanyakumari, India (2016-2017).
- Keynote Speaker at the International Conference on Emerging Trends in Engineering Research (ICETER'16), Chennai, India (2016).
- Guest of Honour & Keynote Speaker at the CONFLUENCE 2016: Global Technology, Innovation & Entrepreneurship Summit - 6th International Conference on Cloud System and Big Data Engineering, Noida, India (2016).
- Keynote Speaker at the 2015 IEEE Student Conference on Research and Development (IEEE SCORED 2015), Kuala Lumpur, Malaysia (2015).
- Chief Guest & Keynote Speaker at the 4th International Conference on Computing and Communication Technology 2015 (ICCCT15), Kanyakumari, India (2015).
- Invited Speaker (Tutorial) at the IEEE Signal Processing Society Winter School 2016/2017 on Recent Advances in Biomedical Imaging, Kuala Lumpur, Malaysia (2016).
- Invited Speaker at the Image Processing, Image Analysis and Real-Time Imaging (IPIARTI) / Symposium of Acoustic, Speech and Signal Processing (SASSP), University Malaysia Perlis (UniMAP) (IEEE, 2014).
- Guest lectures on Data Compression, Universiti Tenaga Nasional, Malaysia ((UNITEN, 2011, 2013, 2014, 2016).
- Invited Speaker at the Seminar on Advances in Biomedical Engineering, AIMST University, Kedah, Malaysia (AIMST, 2010).
- Invited Speaker at the National Biotechnology Seminar (NBS 2010), Kuala Lumpur, Malaysia (MOSTI, 2010).
- Invited Speaker at the International Conference on Computational Intelligence, Man-machine Systems and Cybernetics (CIMMACS '08), Cairo, Egypt (2008).
- Invited Speaker at the International Conference on Signal, Speech and Image Processing (SSIP'06), Lisbon, Portugal (2006).
- Invited Speaker at the International Conference on Automation and Information (ICAI 2003), Tennerife, Spain (2003).
- Invited Speaker at the World Multi-Conference on Circuits, Systems, Communications and Computers (CSCC 2000), Vouliagmeni, Greece (2000).

ACHIEVEMENTS & AWARDS

Professional Body / External Societies

- *Best Chapter Award*, IEEE Signal Processing Society (International) (2011-2012, 2013-2014).
- *Chapter Certification*, IEEE Signal Processing Society (International) (2014-2018).
- *2nd Best Performing Chapter 2013*, awarded to IEEE Signal Processing Society by IEEE Malaysia Section (25/1/2014).
- "Young Achiever" in Legacy of the Pioneers, vol. 2, pp. 173-174 (ISBN: 978-983-43176-2-1) (2009).

- *Certificate of Recognition* – for PhD and academic contributions by KJB (Malaysia) (16/12/2006).
- *Achievers Award* – recognition by KJB (Malaysia) for achievement in vocation / profession (01/08/2004).
- JCS 75th Anniversary Commemorative Award scholar for postgraduate achievement (2000).
- *Runner up* (Falling plates team event) and 5th place (individual prize out of 200 participants), Jugra shooting range (open competition organised by Rej 502 AW) (18/04/2010).
- 2nd prize, Bernam River Rafting Expedition (Regiment Adventure Exercise) (23/08/2003).
- *'Member of the Year'* (1991, La Salle Klang cadet and Division 5 KPS), *'Member of the Month'* (April 1991, La Salle Klang cadet) and *Assistant Division In-Charge* (1991, ACS cadet), St. John Ambulance Malaysia.

International

- *Silver medal*, "Hand Gesture TV Entertainment and Home Controlling System", 21st International Invention, Innovation and Technology Exhibition (ITEX 2011), Kuala Lumpur (20-21/5/2011).
- *Silver medal*, "Multi-touch Tabletop Home Control and Entertainment System", 21st International Invention, Innovation and Technology Exhibition (ITEX 2010), Kuala Lumpur (14-16/5/2010).
- *Brain Korea 21 (BK21) - Post-Doctoral Researcher*, sponsored by the Ministry of Education and Human Resource Development, Republic of Korea (01/11/2007-29/02/2008).
- Soongsil University (Seoul, Korea) selected as *one of the best schools in information technology* (University News Network, 14/10/2008).
- Listed in most editions of *Marquis Who's Who In The World* (2007-).
- Inclusion by the International Biographical Centre (IBC), Cambridge, England in the international lists:
 - *2000 Outstanding Intellectuals of the 21st Century 2012 / 2013* (25/04/2008, 26/07/2013).
 - *TOP 100 ENGINEERS 2013* (29/03/2013).
 - *LEADING ENGINEERS of the WORLD 2008 / 2013* (30/05/2008, 22/02/2013).
 - *LEADING EDUCATORS of the WORLD 2008* (23/05/2008).
 - *IBC FOREMOST EDUCATORS of the WORLD 2008* (27/06/2008) / *FOREMOST ENGINEERS of the WORLD 2008* (22/08/2008) / *TOP 100 EDUCATORS 2008* (05/09/2008).
 - *21st Century Award for Achievement* (01/08/2008).
- Interview by Tzu Chi for role & support in recycling activities – news article (13/2/07, <http://express.tzuchi.net/express.nsf/95d706eceb2858c48256cef0010db0a/ec1e26250162f97d4825729c00400472?OpenDocument>) & news videoclip of interview on TzuChi TV, Taiwan.
- British Universities North America Club (BUNAC) "*Work America*" program work & travel experience at Cedar Point, Sandusky, Ohio, USA (1995).

National

- *Pingat Kebaktian (PK) – Medal for Commendable Service*, Malaysia (10/2012).
- *Best Presenter (Operational Plan)*, Senior Officers course 1/2013, Pusat Latihan Askar Wataniah (PUSWATAN) (08/10/2013).
- *Best Military (Penuntut Ketenteraan Terbaik)*, Staff & Tactic Grade 3 course 1/2011, PUSWATAN (22/3/2011).
- *Best Academic (Penuntut Akademik Terbaik)*, Potential Officers course 1/2003, PUSWATAN (2003).
- *Brain Gain Malaysia - International Fellowship & Post-Doctoral programme Scientist*, sponsored by the Academy of Sciences, Malaysia (ASM), and Ministry of Science, Technology and Innovation, Malaysia (MOSTI) (15/04 – 15/12/2008).
- Malaysian Book of Records qualifier for "Largest Backward Walk" event (11/03/2001) and "First Video Conferencing Event on Mount Kinabalu" (16/09/2002).
- Top 200 Executives of Telekom Malaysia group shortlist, achieved score of 80% for Testing for Selection & Training evaluation and qualifier for the Senior Manager's Assessment Centre (2001).
- Telekom Malaysia scholar for A-Levels and overseas undergraduate studies (UK) (1992-1997).

Institution

- Contributed to Asia Pacific University of Technology & Innovation improving its star rating in the Malaysia Research Assessment (MyRA) in 2016/2017.
- Contributed to Nilai University attaining full university status and Setara 5 ranking in 2012.
- Contributed to Multimedia University's performance and its achievement in local and international awards such as the *2007 Outstanding Engineering Achievement Award* from The Institution of Engineers Malaysia, the *2007 ASEAN Federation of Engineering Outstanding Engineering Achievement Award* and being ranked top private university in Malaysia in the *Top 200 Asian Universities 2009* by QS Quacquarelli Symonds Ltd (compilers of Times Higher Education).

- *Best Booth Award*, MMU Open Day (Cyberjaya) (21/03/2010).
- Multimedia University Best Staff Award (Academic) nominee (2000-2001, 2009).
- *VIP* for Indian Cultural Society (ICS, MMU) events, including the signatory to the UNESCO-recognised cultural performance event (18/8/2007).
- Teaching evaluations > 4.0 (80%) achieved in most semesters (MMU, 1998-2011; NILAI U, 2011-).
- Interview by MMU Alumni on Research Highlight "Computer Aided Medical Image Diagnostic System For Liver Disease" (2005, <http://alumni.mmu.edu.my/Alumni/uploads/loges.htm>).
- Course storyboard selected as sample for Multimedia Learning System (MMLS) at MMU (2003).
- MMU Commendation: Courses Online web Master (1998-2002), Performance appraisal (commendable service / Outstanding) (1999-2008), Courses Online, Teaching Achievement (1998, 2002).
- Best Group prize for work on the formal specification language (Z) and Latex (1997).
- MSMKL High Achievers Award for GCE A-Levels (1994).
- Set up the Computer Club of MARA Science College, Kuala Lumpur (MSMKL) (1992).

PROFESSIONAL MEMBERSHIP

- *Associate ASEAN Engineer*, AFEO Governing Body, Phnom Penh, Cambodia (AAE 2975, 2012-).
- *Charter Member*, Asia Life Science Council (2009-2011) and Science Advisory Board (2009-2011).
- *Corporate Member*, Malaysian Invention and Design Society (MINDS) (1999-2011).
- *Council Member*, IT Professionals Skills Standards Council of Malaysia (2005).
- *Senior Member*, Institute of Electrical and Electronics Engineers, USA (IEEE) (40315185, M'98, SM'04-).
- *Member / Registered*, National Council of Professors (*Majlis Professor Negara*), Malaysia (2016-).
- *Vice Chair* (2011), *Secretary* (2014), *Treasurer* (2010, 2012, 2013) and *Committee Member* (2009), IEEE Signal Processing Society (Malaysia Section).
- *Committee Member*, IEEE Technology Management Council (Malaysia) (IEEE TMC, 2014).
- *Technical Working Group Member*, Internet of Things (IoT), Prime Minister's Department, Malaysia (MIMOS, 2014).
- *Graduate Member*, Institution of Engineers, Malaysia (Grad.I.E.M.) (1998-2015).
- *Graduate Engineer* (Computer), Board of Engineers, Malaysia (BEM) (1998-).
- *Associate*, City and Guilds Institutions, United Kingdom (ACGI) (1997-).
- *Scientific Committee Member*, World Scientific & Engineering Academy and Society (WSEAS) (2000-).

RESEARCH INTERESTS & PUBLICATION SUMMARY

Expertise: main research interests are in Medical image processing, Artificial neural networks, Data compression, Web content development and Compiler design.

PUBLICATIONS:

- Books – 4 (2 text books, 1 research monograph, 1 self-development book),
- Chapters – 8 (international);
- Journals – 63 manuscripts (almost all listed in international citation indices);
- Conferences – 58 manuscripts (almost all international).
- Citations – 1651, h-index = 17, i10-index = 35 (source: Google scholar 07 March 2017).

REVIEWER:

Of technical articles by invitation in international and local books, journals and conferences:

- **Book** - Web Services Security & E-Business (published by IDL, 2005).
- **Journals**
 - i) Biomedical Imaging and Intervention Journal (BIIJ, 2009-2014).
 - ii) Biomedical Statistics and Informatics (SciencePG, 2016-).
 - iii) Clinical Anatomy (Wiley, 2010-2014).
 - iv) Computers in Biology & Medicine (Elsevier, 2009-2014).
 - v) Institution of Engineers Malaysia (IEM) Journal (2001-2007).
 - vi) International Journal of Computer Applications in Technology (2008-2014).
 - vii) International Journal of Computer Assisted Radiology and Surgery (2013-2014).
 - viii) International Journal of Electronics (2013-2014).

- ix) INTI Journal (2004).
- x) Journal of Biomedical Graphics and Computing (2012-2014).
- xi) Journal of Digital Imaging (Springer, 2009-2014).
- xii) Journal of Medical Systems (Springer, 2007-2015).
- xiii) Multimedia Cyberscape Journal (2004-2009).
- xiv) Multimedia Tools and Applications (Springer, 2009-2011).
- xv) Neural Computing and Applications (NCAA, 2016-).
- xvi) Recent Patents in Signal Processing (BSP, 2009-2015).
- xvii) Signal Processing (Elsevier, 2010-2014).
- xviii) WSEAS Transactions on Computer (2007-2014).
- xix) WSEAS Transactions on Signal Processing (2007-2014).

• Conferences

- | | |
|---------------------------------------|--|
| i) IASTED CSN 2002 (Spain). | xi) IEEE TENSYP 2014 (Malaysia). |
| ii) ICACC 2012/2013 (USA). | xii) IIS CCCT 2003-2005/2009 (USA). |
| iii) ICE2T 2014 (Malaysia). | xiii) IPIARTI / SASSP 2013-2014 (Malaysia). |
| iv) ICECCS 2012 (France). | xiv) M ² USIC 2002-2007 (Malaysia). |
| v) ICIT 2014 (UAE). | xv) SCI 2003 (USA). |
| vi) ICUT 2009 (Japan). | xvi) WSEAS ACMOS 2007 (Turkey). |
| vii) IEEE CITISIA 2008 (Malaysia). | xvii) WSEAS CSCC 2004 (Greece). |
| viii) IEEE ICME 2004 (USA). | xviii) WSEAS MACTEE 2004 (Greece). |
| ix) IEEE ICSIPA 2009-2015 (Malaysia). | xix) WSEAS NN 2007 (Canada). |
| x) IEEE TENCON 2013 (Malaysia); | xx) WSEAS TELE-INFO 2007 (USA). |

EDITORIAL BOARD MEMBER:

- i) The Scientific Pages of Information Science (2016-).
- ii) Recent Patents in Signal Processing (2009-2016);
- iii) World Journal of Radiology (2009-);
- iv) Journal of Communication Technology and Human Behaviors (2012-);

ADDITIONAL COMPETENCIES

Computer Literacy:

- Functional programming skills in C, HTML, MATLAB, IDL, SQL, Unix / Linux shell scripts, Perl, CGI, PHP, Miranda; and experienced with other languages such as Modula-2, Prolog, M68000, Visual Basic macros, SmallTalk, etc.
- Setting up and maintenance of servers (SuSE, RedHat, Apache, Xitami, IIS) on a variety of platforms (Windows 98/2000/XP/Vista, Linux, Unix).
- Participant in the British Computer Society programming competition (UK, 1997).

Working attitude:

- Perfect attendance, punctual in meeting deadlines, responsible.
- Good working relationship and teamwork with colleagues of various levels.
- Committed, detailed and quality oriented.
- Motivated by the satisfaction gained by contributing in helping improve people and organisations.

Extra curricular:

- Officer in the Malaysian Voluntary Forces.
- Exco in an international professional society.
- Active in university & student activities.
- Contributor to charitable activities including environmental care.

TRAINING ATTENDED (SELECTED)

LEADERSHIP, MANAGEMENT & STRATEGIC PLANNING:

- Leading and Managing Key Stakeholders, by APU (17-18 Dec 2015).
- Leadership and Entrepreneurship Strategies for University Leaders, by University of Cambridge, United Kingdom, AKEPT and Ministry of Education, Malaysia (16-18 Dec 2013).
- Senior Command course (1/2013), by PUSWATAN & MINDEF (25 Sept – 8 Oct 2013).
- Company Commander course (1/2013), by PUSWATAN & MINDEF (19 June – 2 July 2013).

- TM's Code of Business Ethics, by Telekom Malaysia (Sept 2011).
- ISO 9001:2008 Internal Audit Training, by JcRam Consultants (4-5 April 2011).
- Staff & Tactics Grade 3 course (1/2011), by PUSWATAN & MINDEF (21 Feb – 22 March 2011).
- Platoon Commander course (1/2010), by PUSWATAN & MINDEF (30 June – 29 July 2010).
- Effective Leadership and Communication Skills, by Melcom Network & Services (28-29 April 2005).
- Potential Officer course (1/2003), by PUSWATAN & MINDEF (21 Jan – 19 Feb 2003).
- Code of Ethics / Regulations, by Board of Engineers, Malaysia (BEM) (21-22 Oct 1998).
- Engineering Management Practice, by Board of Engineers, Malaysia (BEM) (14-15 Oct 1998).
- Management Trainee Programme, by Telekom Malaysia (1-30 Aug 1997).
- Young Executive Development Program, by Hitec Management Technology Research Institute, Malaysia (25-27 Aug 1997).
- Executive Professional Image Program, by Mashal Sdn. Bhd. (15-16 Aug 1997).

EDUCATION, RESEARCH & TECHNOLOGY:

- Blended Learning & Flipped Classroom, by Prof. Dato' Mohammed Amin Embi (UKM) (3 Dec 2016).
- Data Lakes for Big Data, by EMC² (online) (May-June 2015).
- MYGRANTS Online Project Progress Reporting, by Ministry of Education (MOE) (8 Sept 2014).
- COPPA Document Preparation, by Malaysian Qualifications Agency (MQA) (25 June 2014).
- Active Learning, by Prof. Dr. Rod Foist (California Baptist University, USA) (20 June 2014).
- Internet of Things (IoT), by MIMOS (speakers from well-known industry players) (14-15 May 2014).
- Outcome-based Education (OBE) Awareness Programme: Issues & Challenges, by Prof. Ir. Dr. Ramesh Singh (UM) (25 Nov 2013).
- PLC & HMI (SIMATICS S7-1200 Micro PLC and TIA Portal), by Siemens (11 Sept 2012).
- IC Citizen Digital Etiquette, by Prestariang (13-14 Sept 2012).
- Project-Oriented Problem-Based Learning (POPBL), by AKEPT and Ministry of Education, Malaysia (27-28 April 2012).
- Developing Applications for the Java EE Platform, by Sun Microsystems (14-17 & 21 December 2009).
- Train the Trainer, by Multimedia University (6-7 Oct 2009).
- Multimedia Courseware Development Technology, by JICA, Japan (18 Feb – 11 March 2005).

HEALTH & SAFETY:

- Recognizing Symptoms of Common Psychological Disorder among College Students, by Dr. Diana Lea Baranovich (15 August 2014).
- Health, Safety and Environment (HSE), by ART (24-25 March 2014).
- Health Talks on Prostate Cancer, Liver, Lungs, Heart (Smoking) & Thalassemia, by Multimedia University (9 June 2010).
- Safety & Health at Work, by Board of Engineers, Malaysia (BEM) (7-8 Oct 1998).
- Cardio Pulmonary Resuscitation (CPR), by St. John Ambulance, Malaysia (28 May 1991).

SKILLS:

- Essentials of Management Accounting Research Methodology, by Chartered Institute of Management Accountants (10 April 2014).
- Annual Camp at 4 RAMD (Kem Gurkha Malaya), by Rej 502(AW) (1-15 Nov 2010).
- Support Weapons course (1/2007), by PUSWATAN & MINDEF (8 May – 6 June 2007).
- In-House Training Programme, by Telekom Malaysia (12-30 Aug 1996).
- Overseas Study Motivation course, by Excel Training & Consultancy, Malaysia (22 July 1996).
- Motivation & Success Studies Strategies Programme, by NLP Consultancy (30 Aug – 1 Sept 1993).
- Intensive English, by Bangsar Language Centre, Malaysia (23 Nov – 5 Dec 1992).
- Intensive English, by MARA Science College, Kuala Lumpur (3 Aug – 26 Sept 1992).
- Outward Bound, by Outward Bound School, Lumut (17-26 June 1992).
- Advanced Level Study Skills, by British Council, Kuala Lumpur (1 June – 16 July 1992).
- Swimming (Advanced), by Silver Lagoon Fitness Centre, Klang (7 Jan 1990).

BOOKS / MONOGRAPHS:

1. Hairul Azhar b. Abdul Rashid, **R. Logeswaran a/l N. Rajasvaran**, Pau Kiu Nai and Sim Hock Kheng, Engineers in Society, McGraw-Hill : Malaysia, 2004 (ISBN: 9832679958)
2. **R. Logeswaran**, Hairul Azhar, Pau Kiu Nai and Sim Hock Kheng, Engineers in Society, 2nd edition, McGraw-Hill : Malaysia, 2006 (ISBN: 983-3219-36-5)
3. **Rajasvaran Logeswaran**, Predictive Artificial Neural Networks - A Block-adaptive Scheme for Lossless Telemetry Data Compression, Lambert Academic Publishing : Germany, 2010 (ISBN: 978-3-8383-3744-9).
4. Nelson David Bassey, **Rajasvaran Logeswaran** and Sarah Michel, The New Generation of Leadership – Transforming Ordinary Young People Into Outstanding and Growing Leaders, Westbow Press : USA, 2013 (ISBN: 9781490803333).

BOOK CHAPTERS:

1. **R.Logeswaran**, "Application of Generalised Regression Neural Networks in Lossless Data Compression", in Systems and Control : Theory and Applications, World Scientific and Engineering Society (WSES) Press : Greece, 2000, pp. 269-274 (N.E.Mastorakis ed., ISBN : 960-8052-11-4)
2. **R.Logeswaran**, "Enhancement Of Lempel-Ziv Coding Using A Predictive Pre-Processor Scheme for Data Compression", in Advances in Information Science and Soft Computing, WSEAS Press : Greece, 2002, pp. 238-243 (ISBN: 960 8052 602)
3. **Rajasvaran Logeswaran**, "Compression of Medical Images for Teleradiology", in Teleradiology, Springer : Berlin Heidelberg, August 2008, pp. 21-31 (ISBN: 978-3-540-78870-6 (*Print*) 978-3-540-78871-3 (*Online*), Kumar & Krupinski (eds.), http://dx.doi.org/10.1007/978-3-540-78871-3_3).
4. **Rajasvaran Logeswaran**, "Neural Networks in Medicine – Improving Difficult Automated Diagnosis of Cancer in the Bile Ducts", in Nature-Inspired Informatics for Intelligent Applications and Knowledge Discovery: Implications in Business, Science and Engineering, IGI Global : USA, July 2009, pp. 144-165, (ISBN: 978-1-60566-705-8, Chiong (ed.)).
5. **Rajasvaran Logeswaran**, "3D Medical Imaging Applications - Reconstruction and Automatic Analysis" in 3D Imaging: Theory, Technology and Applications, NOVA Science : USA, 2010 (ISBN: 978-1-60876-885-1).
6. **Rajasvaran Logeswaran**, "Robustness Verification of Artificial Neural Network Predictors in a Purpose-Built Data Compression Scheme" in Artificial Neural Networks, NOVA Science : USA, Kwon (Ed.), 2010 (ISBN: 978-1-61761-553-5), Chapter 24.
7. **Rajasvaran Logeswaran**, "Simulating Load Balancing in a Distributed Service Architecture" in Horizons in Computer Science Research, Vol. 5, NOVA Science : USA, Clary (Ed.), 2011 (ISBN: 978-1-61324-789-1), Chapter 3.
8. **Rajasvaran Logeswaran**, "Robustness Verification of Artificial Neural Network Predictors in a Purpose-Built Data Compression Scheme" in Focus on Artificial Neural Networks, NOVA Science : USA, Flores (Ed.), 2011 (ISBN: 978-1-61324-285-8), Chapter 13.

JOURNALS:

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48. Arif Sameh, Sarina Mansor and **Rajasvaran Logeswaran**, "Combined Bilateral and Anisotropic-Diffusion Filters for Medical Image De-noising", 2011 IEEE Student Conference on Research and Development, Cyberjaya, Malaysia, December 2011, pp. 363-367 (19-20/12/2011).
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50. Arif Sameh, Sarina Mansor, Hezerul Abdul Karim and **Rajasvaran Logeswaran**, "Lossless Compression of Fluoroscopy Medical Images by Run-length and Huffman Coding Using Correlation", 2012 IEEE-EMBS Conference on Biomedical Engineering (IECBES 2012), Langkawi, Malaysia, December 2012, pp. 759 - 762 (17-19/12/2012).
51. Arif Sameh Arif, **Rajasvaran Logeswaran**, Sarina Mansor and Hezerul Abdul Karim, "Segmentation and Compression of Pharynx and Esophagus Fluoroscopic Images", 2013 IEEE International Conference on Signal and Image Processing Applications (IEEE ICSIPA 2013), Melaka, Malaysia, October 2013, pp. 220-225 (8-10/10/2013).
52. Alaa Al-abayechi, **Rajasvaran Logeswaran**, Xiaoning Guo and Wooi Haw Tan, "Lesion Border Detection in Dermoscopy Images Using Bilateral Filter", 2013 IEEE International Conference on Signal and Image Processing Applications (IEEE ICSIPA 2013), Melaka, Malaysia, October 2013, pp. 365-368 (8-10/10/2013).
53. Soon Nyeon Cheong, Ian Chai and **Rajasvaran Logeswaran**, "Near Field Communication Mobiquitous Learning System", International Conference on Advanced Computer Science Applications and Technologies (ACSAT 2013), Sarawak, Malaysia, December 2013, accepted (22-25/12/2013).
54. W. S. H. M. W. Ahmad, **R. Logeswaran**, M. F. A. Fauzi, W Mimi Diyana W Zaki, "Effects of Different Classifiers in Detecting Infectious Regions in Chest Radiographs", IEEE International Conference on Industrial Engineering and Engineering Management (IEEM 2014), Sunway, Malaysia, December 2014 (9-11/12/2014).
55. Soon Nyeon Cheong, Ian Chai and **Rajasvaran Logeswaran**, "Quick Response Multimodal Learning System with Raspberry Pi", International Conference on Knowledge and Education Technology (ICKET 2015), Langkawi, Malaysia, December 2015 (9-10/12/2015).
56. Soon Nyeon Cheong, Ian Chai and **Rajasvaran Logeswaran**, "Mobiquitous Learning System with NFC Smartphone and TV through Raspberry Pi", International Conference of Computer Science Engineering and Technology (COMSCET 2016), Kuala Lumpur, Malaysia, January 2016 (23-24/01/2016).
57. Soon Nyeon Cheong, Ian Chai and **Rajasvaran Logeswaran**, "Quick Response Multimodal Learning System with Raspberry Pi", International Conference of Computer Science Engineering and Technology (COMSCET 2016), Kuala Lumpur, Malaysia, January 2016 (23-24/01/2016).
58. Mohamed Shaafiee, **Rajasvaran Logeswaran** and Andrew Seddon, "Overcoming the Limitations of von Neumann Architecture in Big Data Systems", International Conference on Cloud Computing, Data Science & Engineering on Cloud Computing, Data Science & Engineering (CONFLUENCE 2017), New Delhi, India, January 2017 (12-13/01/2017) (accepted Nov 2016).

RESEARCH SUPERVISION

PhD Supervision

No.	Degree	Student	Topic	Grad.	Role
1.	Ph.D. (Engineering)	Sara Moein	Kinetic Gas Molecule Optimisation Neural Network For Classification Of Heart Disorder Electrocardiogram Signals	2013 (MMU)	Supervisor
2.	Ph.D. (Engineering)	Arif Sameh Arif	Lossless and Near Lossless Compression of Pharynx and Esophagus in Fluoroscopy Medical Images	2016 (MMU)	Supervisor
3.	Ph.D. (IT)	Alaa al-abayechi	<i>Automated Skin Melanoma Detection and Classification</i>	2016 (MMU)	Supervisor
4.	Ph.D. (Engineering)	Soon Nyeen Cheong	Design and Development of Natural User Interface Technology-Enhanced Learning Platform	2017 (MMU)	Supervisor
5.	Ph.D. (Technology)	Mohamed Shaafiee	Programming for Volatile-Memory-Free Computer Systems Architectures	2017 (APU)	Supervisor
6.	Ph.D. (Engineering)	Wan Siti Halimatul Munirah	Content Based Medical Image Analysis and Retrieval System for Chest X-Rays	2016 (MMU)	Co-supervisor
7.	Ph.D. (IT)	Purwanto	Web-Based Decision Support System for Monitoring in Healthcare Management	2013 (MMU)	Co-supervisor
8.	Ph.D. (Engineering)	Mehdy Farzaneh Kazerouni	Optical Coherence Tomography for Eye Disease Classification	<i>until</i> <i>2012</i> (MMU)	Supervisor
9.	Ph.D. (Engineering)	Aris Marjuni	Image Authentication System Of The MMS Content Using Digital Image Watermarking Techniques	<i>until</i> <i>2012</i> (MMU)	Supervisor
10.	Ph.D. (Engineering)	Seyed Alireza Mohseni	Adaptive control and identification of nonlinear systems using neural networks and fuzzy models	<i>until</i> <i>2011</i> (MMU)	Co-supervisor
11.	Ph.D. (Engineering)	Mohd. Haris Lye Abdullah	Human Detection and Tracking for Visual Surveillance	<i>until</i> <i>2011</i> (MMU)	Co-supervisor

Masters by Research Supervision

No.	Degree	Student	Topic	Grad.	Role
1.	Master of Engineering Science	Miew-Keen Choong	Digitisation, Lossy Compression and Visualisation in Cost-Effective Telehealth Environment	2004 (MMU)	Supervisor
2.	Master of Engineering Science	Aziah ali	Design of a Setup For 3D Ultrasound Using Visual Probe Tracking	2005 (MMU)	Supervisor
3.	Master of Engineering Science	Chung Sheng Hung	Texture-Based Multimode Analysis for Preliminary Diagnosis of Liver Cyst and Fatty Liver using Neural Networks	2006 (MMU)	Supervisor
4.	Master of Engineering Science	Md. Shakawat Zaman Sarker	A Semi-automatic System for the Extraction of Anatomical Objects from Abdominal MRI Images	2007 (MMU)	Co-supervisor
5.	Master of Engineering Science	Wan Siti Halimatul Munirah	Development of Hybrid Content and Text-Based Image Retrieval Systems	2009 (MMU)	Co-supervisor
6.	Master of Engineering Science	Nur Faiza Ishak	Low-field MRI Brain Segmentation	<i>until</i> <i>2011</i> (MMU)	Supervisor
7.	Master of Engineering Science	K. Nityananthan	An Integrated Multimode Based Diagnosis Tool	<i>until</i> <i>2008</i> (MMU)	Supervisor

Masters Dissertation Supervision

No.	Degree	Student	Topic	Grad.	Role
1.	MSc Software Engineering	Beverly Amunga Onyimbo	User Interface Design for Mobile Apps	2016 (APU)	Supervisor
2.	MSc Technology Management	Abdulsamad Mohammed Aminu	Effectiveness of Web Personalisation using Web 3.0	2016 (APU)	Supervisor
3.	MSc in Computer Science	Cheang Wei Loong	Optimising Programming Control Flow Constructs on the Power Consumption of Programs	2017 (APU)	Supervisor
4.	MSc in Computer Science	Aishath Samha	A Conceptual Framework for An Electronic Health Record (HER) System	2017 (APU)	Supervisor
5.	MSc in Computer Science	Khalid Mohammad Saleem		2017 (APU)	Supervisor
6.	MSc in Data Science and Business Analytics	Shangiri Segaran		2017 (APU)	Supervisor
7.	MSc Technology Management	Roni Fahrozi	An Exploratory Study on Generation Y's Technology Led Tourism	2016 (APU)	Co-supervisor
8.	MSc in Computer Science	Bie Tong	Internet of Things based Alarm System and its Impact on People with Hearing Impairment	2017 (APU)	Co-supervisor
9.	MSc in Software Engineering	Chua Kiem Mun	Factors Affecting E-Commerce Adoption in SMEs: An Exploratory Study of Malaysia	2017 (APU)	Co-supervisor

Final Year Project (Undergraduate) Supervision

No.	Degree	Student	Topic	Grad.	Role
1.	B.MM. (Computer & Digital Art)	Azny binti Abdullah	Interactive Graphical User Interface for Identification of Regions of Interest in Medical Image Processing	2002 (MMU)	Supervisor
2.	B.Eng. (Computer)	Ditesh Kumar	Implementation of a Compiler for a Subset of an IDL-like Language	2002 (MMU)	Supervisor
3.	B.Eng. (Computer)	Lee Chern Hsing	Implementation of a Compiler for a Subset of an IDL-like Language	2002 (MMU)	Supervisor
4..	B.MM. (Computer & Digital Art)	Lew Kee Wai	Prediction-based Lossless Data Compression using Artificial Neural Networks	2002 (MMU)	Supervisor
5.	B.Eng. (Computer)	Mohanaraj Gopala Krishnan	Implementation of a Compiler for a Subset of an IDL-like Language	2002 (MMU)	Supervisor
6.	B.Eng. (Multimedia)	Nor Azlina Abdul	Electronic Courseware Tools for Semi-Automated Submission and Grading	2002 (MMU)	Supervisor
7.	B.Eng. (Computer)	Pechin Lo	- Interactive Graphical User Interface for 3D Applications of 2D MRI Medical Images	2002 (MMU)	Supervisor
8.	B.MM. (Computer & Digital Art)	Sabrena Shamsul Baharin	Interactive Graphical User Interface for Identification of the Biliary Tree in MRCP Medical Images	2002 (MMU)	Supervisor
9.	B.Eng. (Multimedia)	Woo Pei Yeng	Prediction-based Lossless Data Compression using Artificial Neural Networks	2002 (MMU)	Supervisor
10.	B.MM. (Computer & Digital Art)	Faizatul Sarah Nordin	Development of User-Friendly Interactive GUI for Image Analysis in IDL	2003 (MMU)	Supervisor
11.	B.Eng. (Multimedia)	Mohaini Mohd. Din	Development of User-Friendly Interactive GUI for Image Analysis in IDL	2003 (MMU)	Supervisor
12.	B.MM. (Computer & Digital Art)	Syairah Anis Amin	Code Optimisation for use in Image Processing	2004 (MMU)	Supervisor
13.	B.Eng. (Computer)	Devendra Mahendran	Content Management System for Webserver	2006 (MMU)	Supervisor
14.	B.Eng. (Electrical)	Ch'ng Su Jin	Multimedia Presenter USB Firmware	2007 (MMU)	Supervisor

15.	B.Eng. (Computer)	Choo Lett Kee	Two-stage Lossless Data compression using Supervised Artificial Neural Networks	2006 (MMU)	Supervisor
16.	B.Eng. (Computer)	Koay Hian Lim	Issues on Server Security on Linux-based Platforms	2006 (MMU)	Supervisor
17.	B.Eng. (Computer)	Leong Jay Shen	Code Optimisation for use in Image Processing	2006 (MMU)	Supervisor
18.	B.Eng. (Computer)	Tan Kong Hooi	Two-stage Lossless Data compression using Unsupervised Artificial Neural Networks	2006 (MMU)	Supervisor
19.	B.Eng. (Computer)	Gary Lim Chee Kiong	Webcam-based 3D Object Recogniser	2007 (MMU)	Supervisor
20.	B.Eng. (Computer)	Heah Hooi Kiang	Electronic Courseware System - Automatic Detection and Evaluation	2007 (MMU)	Supervisor
21.	B.Eng. (Telecomm.)	Yong Zhi Chao	Multimedia Presenter Hardware	2007 (MMU)	Supervisor
22.	B.Eng. (Computer)	Brian Mukasa	Car Radio GUI	2009 (MMU)	Supervisor
23.	B.MM. (Computer & Digital Art)	Mohd Aqmal Mohd Jamil	Webcam-based 3D Object Recognizer	2009 (MMU)	Supervisor
24.	B.Eng. (Multimedia)	Oh Yu Kiat	USB Multimedia Presenter	2009 (MMU)	Supervisor
25.	B.Eng. (Computer)	Ho Hock Sheng	Radio GUI	2009 (MMU)	Supervisor
26.	B.Eng. (Computer)	Tan Li Chye	Development of an Efficient Classroom Scheduling System using Genetic Algorithm	2010 (MMU)	Supervisor
27.	B.Eng. (Computer)	Er Song Wei	Development of an Efficient Classroom Scheduling System - Rule Based	2010 (MMU)	Supervisor
28.	B.Eng. (Computer)	Kaddu Shaban	Employee Database Report Generator	2010 (MMU)	Supervisor
29.	B.Eng. (Computer)	Nur Iffah Ishak	Employee Database Report Generator	2010 (MMU)	Supervisor
30.	B.Eng. (Multimedia)	Thinesh Sinnathambay	Webcam Based 3D Object Recognizer	2011 (MMU)	Supervisor
31.	B.Eng. (Nanotechnology)	Tan Yee Kean	Green Technologies - Solar Charge Controller	2011 (MMU)	Supervisor
32.	B.Eng. (Nanotechnology)	Cheah Jen Tat	Green Technologies - Solar Powered Bus Shelter	2011 (MMU)	Supervisor
33.	B.Eng. (Nanotechnology)	Lee Jih Yee	Green Technologies - Solar Panel System	2011 (MMU)	Supervisor
34.	B.Eng. (Electronics)	Ang Chong Loong	Green Technologies - Harnessing Potential Energy	2011 (MMU)	Supervisor
35.	B.Eng. (Electronics)	Tan Joo Bing	Green Technologies - Harnessing Kinetic Energy	2011 (MMU)	Supervisor
36.	B.Eng. (Electronics)	Yeap Chee Eng	Green Technologies - Harnessing Hydroelectric Energy	2011 (MMU)	Supervisor
37.	B.Eng. (Electronics)	Tan Yin Fung	Green Technologies - Solar Powered IP Camera	2011 (MMU)	Supervisor
38.	B.Eng. (Electronics)	Koh Kim Foong	Green Technologies - Piezoelectric Energy Harvester	2011 (MMU)	Supervisor
39.	B.Eng. (Electronics)	Lim Kheng Hui	Green technologies - Thermoelectric Generator	2011 (MMU)	Supervisor
40.	B.Eng. (Computer)	Boon Lip Kuan	Development of an Efficient Classroom Scheduling System using PSO	2011 (MMU)	Supervisor
41.	B.Eng. (Electronics)	Jansen Sie Eng Thai	Ambient Sound Cancellation System	2011 (MMU)	Supervisor
42.	B.Sc. Software Engineering	Lew Chee Thet	"MajorMe" - University Academic E-learning knowledge-Base and Preparation System	2016 (APU)	Supervisor
43.	B.Sc. IT (Info. Sys. Security)	Lee Kok Eng	Digital Image Steganography	2017 (APU)	Supervisor
44.	B.Sc. Software Engineering	Teh Hock Keong	Customized Location Search Engine System (CLSES) Propagation	2016 (APU)	Co-supervisor
45.	B.Sc. Software Engineering	Chua Pui Ern	E-Recruitment Management System	2016 (APU)	Co-supervisor

POSTGRADUATE RESEARCH EXAMINATION

PhD Examiner

No.	Degree	Student	Topic	Grad.	Role
1.	Ph.D. Computer Science	R. Beena	Dynamic Approaches for Test Case Optimization in Regression Testing	2015 (Bharathiar Uni., India)	Thesis External Examiner
2.	Ph. D	Sepideh Yazdani	Automatic Brain Segmentation in MRI	2016 (UTM)	Thesis & Viva External Examiner
3.	Ph.D.	K. Srividhya	Intelligent System for Adaptive Enhancement of Underwater Images for Accurate Object Recognition	2016 (Hindustan Institute of Technology & Science, India)	Thesis External Examiner
4.	Ph.D. (IT)	G. Radhamani	An Efficient Mobile Transaction Processing Model for XML Databases	2005 (MMU)	WCD Examiner
5.	Ph.D. (Engineering)	Bachir Guendouz	3D Ultrasound Imaging Using Visual Probe Localisation	2009 (MMU)	WCD Examiner
6.	Ph.D. (Engineering)	Nbhan Salih	Block-based Shape Representation and Retrieval for CBIR	2009 (MMU)	WCD Examiner
7.	Ph.D. Management	Lim Li Chen	Workplace Deviance Among Volunteers in Malaysia's Emergency Relief Services	2015 (APU)	WCD Examiner

Masters by Research Examiner

No.	Degree	Student	Topic	Grad.	Role
1.	M.Eng.Sc.	Choong Miew Keen	Digitisation, Visualisation and Lossy Compression in A Cost-Effective Telehealth Environment	2004 (MMU)	Thesis & Viva Examiner
2.	M.Eng.Sc.	John See Su Yang	Algorithms for an Integrated Vision-based Home Security System	2004 (MMU)	WCD Examiner
3.	M.Eng.Sc.	Aziah Ali	Design of a Setup For 3D Ultrasound Using Visual Probe Tracking	2005 (MMU)	Thesis & Viva Examiner
4.	M.Eng.Sc.	Tan Chue Poh	Microwave Remote Sensing and Satellite Image Processing for Rice Crop Field	2005 (MMU)	WCD Examiner
5.	M.Eng.Sc.	Chung Sheng Hung	Texture-Based Multimode Analysis For Preliminary Diagnosis Of Liver Cyst And Fatty Liver Using Neural Networks	2006 (MMU)	Thesis & Viva Examiner
6.	M.Eng.Sc.	Md. Shakawat Zaman Sarker	A Semi-automatic System for the Extraction of Anatomical Objects from Abdominal MRI Images	2006 (MMU)	Thesis & Viva Examiner
7.	M.Eng.Sc.	Chin Ji Jian	A Study on Identity-based Identification Schemes	2008 (MMU)	WCD Examiner
8.	M.Eng.Sc.	Wong Ting Hwee	MPSoC Approach for Optimizing the Execution Time of Description Logic Reasoner	2008 (MMU)	WCD Examiner
9.	M.Eng.Sc.	Mustafa Safa	<i>Information unavailable at the moment</i>	2008 (MMU)	Thesis & Viva Examiner
10.	M.Eng.Sc.	Thinaharan Ramachandran	<i>Information unavailable at the moment</i>	2009 (MMU)	Thesis & Viva Examiner
11.	M.Eng.Sc.	Hamada	<i>Software Testing</i>	2010 (UTP)	Thesis & Viva External Examiner
12.	M.Eng.Sc.	Ahmed ElMardi	Development Of Kidney Teleultrasound Consultation System	2010 (UM)	Thesis & Viva External Examiner
13.	M.Eng.Sc.	Mohd Narizee	<i>Information unavailable at the moment</i>	2010 (MMU)	Thesis & Viva Examiner
14.	M.Eng.Sc.	Mohammad Shafieipour	Design and Optimisation of Signal Coding Techniques for Broadband Power Line Communications	2010 (MMU)	WCD Examiner
15.	M.Eng.Sc.	Wong Ting Hwee	MPSoC Approach for Optimizing the Execution Time of Description Logic Reasoner	2011 (MMU)	Thesis & Viva Examiner

Masters Dissertation Examiner

No.	Degree	Student	Topic	Grad.	Role
1.	M.Eng. Microelectronics	Aw Chee Hong	FPGA implementation of Hough Transform for line detection	2010 (MMU)	Viva Examiner
2.	M.Eng. Microelectronics	Khor Wan Chong	Implementation of Blowfish Encryption in 12C Engine	2010 (MMU)	Viva Examiner
3.	M.Eng. Microelectronics	Lim Kai Sian	<i>Information unavailable at the moment</i>	2010 (MMU)	Project Examiner
4.	M.Eng. Microelectronics	Chin Chee Leong	<i>Information unavailable at the moment</i>	2010 (MMU)	Project Examiner
5.	M.Eng. Telecommunications	Chee Wei Keung	<i>Information unavailable at the moment</i>	2010 (MMU)	Project Examiner
6.	M.Eng. Telecommunications	Arash Asadi	<i>Information unavailable at the moment</i>	2010 (MMU)	Project Examiner
7.	MSc Technology Management	Roni Fahrozi	An Exploratory Study on Generation Y's Technology Led Tourism	2016 (APU)	Dissertation Examiner
8.	MSc Technology Management	Abdulsamad Mohammed Aminu	Effectiveness of Web Personalisation using Web 3.0	2016 (APU)	Dissertation Examiner
9.	MSc Software Engineering	Beverly Amunga Onyimbo	User Interface Design for Mobile Apps	2016 (APU)	Dissertation Examiner
10.	MSc in Software Engineering	Chua Kiem Mun	Factors Affecting E-Commerce Adoption in SMEs: An Exploratory Study of Malaysia	2017 (APU)	Co-supervisor

REFERENCES:

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- *Tan Sri Dr. Ghauth Jasmon* (Email: ghauth@gmail.com)
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 - *Prof. Ir. Dr. Yow Ho Kwang* (Email: yowhk@utar.edu.my)
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Universiti Tunku Abdul Rahman, Jalan Genting Kelang, 53300 Kuala Lumpur, Malaysia
 - *Prof. Dr. David Bradley* (Email: d.a.bradley@surrey.ac.uk)
Professor, University of Surrey, Guildford, Surrey, GU2 7XH, United Kingdom.
 - *Prof. Dr. Chikkanan Eswaran* (Email: eswaran@mmu.edu.my)
Professor, Faculty of Computing & Informatics, Multimedia University, 63100 Cyberjaya, Malaysia.

Title: DATA SCIENCE: FUNDAMENTALS, OPPORTUNITIES & RECENT ADVANCES

Synopsis:

Big Data is the buzz word these days, with its far-reaching application across all sectors and domains. The prevalence of the data meeting the 4Vs criteria - large volume, velocity, variety and veracity, has led to the need to establish new methods and technologies to cope with the rich information available to predict and provide vital services in a timely and appropriate manner. Artificial Neural Networks (ANN) are intrinsically suitable for handling deep learning, yet very conveniently used as a "black box" to obtain the desired high performance. This talk presents some fundamentals on ANN and Big Data, and introduces some of the current and future work undertaken on Big Data through the aid of ANN."

Contents:

1. Introduction

- 1.1 What is "Big Data"?
- 1.2 Definition
- 1.3 Fundamentals – 4Vs

2. Focus on Talent Creation

- 2.1 Job Demand
- 2.2 Opportunities
- 2.3 Required Skills
- 2.4 Education & Professional Development

3. Big Data Landscape

- 3.1 Focus on Open Data
- 3.2 Focus on Open Innovation

4. Tools & Technologies

- 4.1 Tools for Data Science
- 4.2 Neural Networks for Data Science
- 4.3 Deep Learning

5. Related Issues

- 5.1 Recent Advances in Data Science
- 5.2 Competitions

6. Conclusion

- 6.1 Summary
- 6.2 Exercise / Assessment
- 6.3 Recap & Closing Remarks

Veltech Dr.RR & Dr.SR University

(Estd. u/s 3 of UGC Act, 1956)

Office of International Programmes**Visiting Professor Programmes****Details of Professor & Course:**

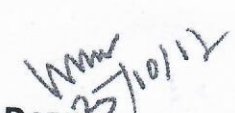
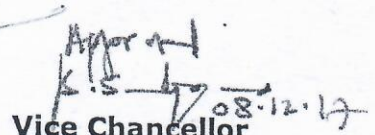
Name of the Professor	Prof. Dr. R. Logeswaran
University & Country	Asia Pacific University, Malaysia
Title of the Course	DATA SCIENCE: FUNDAMENTALS, OPPORTUNITIES & RECENT ADVANCES.
Department	Computer Science & Engineering
Dates of the Course	Dec 27-29, 2017
Total No. of Hours	15
No. of Credits	1
Course Contents	List Attached

Prepared by: 

Coordinator – Office of Intl. Pgms

Forwarded by: 

Director – Office of Intl. Pgms


HoD
Dean
Director (Academic)
Vice Chancellor

Prof. Dr. R. Logeswaran

Director Academics

Veltech Dr. RR & Dr. SR University

(Estd. u/s 3 of UGC Act, 1956)

SNo	Stu_Id	Stu_Name	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VtU8283	PATINA HEMASHEKAR	CSE	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
2	VtU7360	GANGINENI SAI SATYA SRINIVAS	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
3	VtU7893	V S R ABHISHIKTH	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
4	VtU6894	POOLA ANUDEEP	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
5	VtU7068	SHAIK NAZMA	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
6	VtU7939	MANDA SAI TEJASWI	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
7	VtU8110	SAYAN JANA	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
8	VtU7053	DIVI DHANYA SRI	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	A
9	VtU7120	CHEEPURUPALLI VARAHALU	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	A
10	VtU7240	TANGUTURI ABHINAY	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	A
11	VtU7254	NANABOLU MANIDEEP REDDY	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	A
12	VtU7932	KASSA ACHYUTH KUMAR	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	D
13	VtU8376	JANAPARAPU THIRUMALA VENKATA SAI	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	D
14	VtU7238	HEMANT SINGH	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	D
15	VtU7958	GARAGA SRINIVAS	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	D

16	VtU7251	MADDIREDDY VIJAYA BASKARA REDDY	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	C
17	VtU6895	MONDAL SOURAV	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	C
18	VtU7959	ANISETTI SURESH KUMAR	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	C
19	VtU8216	NOONELA VENKATAKRISHNA RAVIKUMAR	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	C
20	VtU8407	VEMULA CHARAN	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	C
21	VtU7059	PALISETTY SWAPNA	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	C
22	VtU6891	AMMIREDDY ASHOK KUMAR REDDY	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	C
23	VtU6903	PATLURI VENKATA NAGA MOHANA VAMSI KRISHNA	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	C
24	VtU6917	NEELAKANTAM JAHNAVI	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	C
25	VtU7295	GANTA VISHNUPRASAD REDDY	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	C
26	VtU6976	ADIREDDI BALA MANI KANTA	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
27	VtU7236	MUDUNURI SITA RAMA RAJU	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
28	VtU8101	BURRA AKHILA	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
29	VtU6914	POTNURU VENKATA SRINIVASA CHANDRABHUSHANAM	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
30	VtU7002	BIKUMALLA ABHISHEK	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
31	VtU7213	KOWTHARAPU SAI TEJESH	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B

32	VtU7773	RAYIDI SAHITHI	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
33	VtU8007	CHINTHA VAISHNAVA CHANDRA	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
34	VtU8222	MUDDINENI NAGA VENKATA SAI YASASWI	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
35	VtU8372	YASH MISHRA	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
36	VtU6878	DIVI NIKHITHA	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
37	VtU6899	MALINI M	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
38	VtU7165	MEGHANA CH	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
39	VtU7267	DHANEKULA BHARGAV	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
40	VtU7996	ALLAMANENI VENUGOPAL	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B
41	VtU6745	VASARLA PRANEETH	CSE(DA)	1157CS912	Data Science: Fundamentals, Opportunities and Recent Trends	Pass	B



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. in's 3 of UGC Act, 1956)

Our Ref. No: 2017/VF 35

Your Ref. No:

Submitted for the Approval:**Name of the Professor:** Prof. Dr. R. Logeswaran**University & Country :** Asia Pacific University, Malaysia**Course Titles :** DATA SCIENCE: FUNDAMENTALS, OPPORTUNITIES & RECENT ADVANCES.**Department :** Computer Science and Engineering**Students :** 2016-2020, 44 Students**Training Program date:** 27th to 29th December, 2017

Sl.No	Description	Amount in INR	Amount in MYR
1	Course Honorarium (Rs.3000 * 15 Hrs) (Net Amount & Tax Free)	45000	2856
2	Flight Ticket (630.82 MYR) (1 MYR= 15.61 as on 13 th Nov.,2017) (To be reimbursed , Bill Enclosed)	9847	630.82
3	Visa processing Charges (1 MYR=15.73 as on 18 th Dec.,2017) (To be reimbursed , Bill Enclosed)	3432	218.18
4	Taxi Charges (Travel to/from airport) (To be reimbursed , Bill Enclosed)	2177	138.60
Total		60456	3843.6

(Rupees sixty thousand four hundred and fifty six only)

In this regard, I request your approval for transferring the amount to the following Account,

Name : R. Logeswaran N Rajasvaran**Account No:** 8003699691**Bank name:** CIMB BANK BERHAD**Branch :** CYBERJAYA, MALAYSIA**SWIFT Code :** CIBBMYKL

PAID

Thank You,

S. Sivaperumal

Dr. S. Sivaperumal

Director International Relations

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. in's 3 of UGC Act, 1956)

PAID 60456
ML No. 339
CHQ. No. 24516
DTD. 3/1/18

Dt Recd	Name	Sign
Dt Entd		
Dt Verified		
Dt of Filling		

174



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Computing
Department of Computer Science Engineering

Specialized one credit course on
“Data Compression Strategies”
(1157CS943)

by
Prof. Dr. Logeswaran
Asia Pacific University, Malaysia



Held on
Date: January 2 to 8, 2019

Curricular Vitae
Prof. Dr. R. LOGESWARAN

Name (as in passport) : R. LOGESWARAN A/L N. RAJASVARAN
Name in publications : LOGESWARAN, Rajasvaran
Nationality : Malaysian
Gender & Status : Male (married)
Contact Information : loges@ieee.org (email), +6013-3942034 (tel.)
Address : 25, Jalan PU9/6B, Taman Puchong Utama,
47140 Puchong, Selangor, Malaysia



ACADEMIC QUALIFICATIONS

- 2006 **Doctor of Philosophy - Ph.D. (Engineering)**, Multimedia University, Malaysia.
(title: "Computer-aided Detection, Modelling and Diagnostic Techniques for Biliary Structure using MRCP").
- 2000 **Master of Engineering Science - M.Eng.Sc.**, Multimedia University, Malaysia
(title: "Neural Network Based Lossless Data Compression Schemes For Telemetry Data").
- 1997 **BEng. (Hons) Computing**, University of London, United Kingdom – (2nd Class Upper)
(Imperial College of Science, Technology and Medicine, London, United Kingdom).
- 1994 **GCE A-Levels**, MARA Science College Kuala Lumpur (MSMKL), Malaysia – (6A's).
- 1991 **Sijil Pelajaran Malaysia** (O-Levels), La Salle Klang secondary school, Malaysia – (Grade 1, 8A's).

CERTIFICATIONS

- 2012 IC Digital Citizen certification, Certiport, USA.
- 2012 1CiTiZEN Certification Programme Trainer, Ministry of Higher Education (KPT), Malaysia.
- 2010 Data Center Advanced Technical Specialist (DCATS), Novell.
- 2010 Data Center Technical Specialist (DTCS), Novell.
- 2008 Novell Certified Linux Professional (NCLP) – SUSE Linux Enterprise Server 10.
- 2008 Novell Certified Linux Administrator (NCLA).
- 2008 Linux Technical Specialist, Novell.

WORK EXPERIENCE

- **Asia Pacific University of Technology & Innovation (APU)**

- 2015 Jan-current *Professor*, Faculty of Computing, Engineering & Technology (FCET).
2015 Jan-2017 Jan *Dean*, School of Postgraduate Studies (SoPG).

Main administrative roles include:

- Chairman, *Centre for Edutainment and Educational Technologies* (CEET, 2015-).
- Chairman, *University Postgraduate And Research Committee* (PARC, 2015-2016).
- Chairman, *University & Faculty Appeals Committees* (2015-2016).
- Chairman, *University Modular Examination Boards and University Modular Awards Boards* (2015-2016).
- Chairman, *Programme Committee Meetings for PhD and Masters programmes* (PCM, 2015-2016).
- Chairman, *New Programmes Development Committee* (FCET, 2015).
- Core Member, *Asia Pacific Centre for Analytics* (APCA, 2015-).
- Dean overseeing all postgraduate programmes (PhD, MPhil, taught Masters) at the various faculties at APU (2015-2016).
- Member of the *Senate, Senior Management Team (SMT), Academic Management Committee (AMC), Quality Assurance Board (QAB), Academic Development Committee (ADC), Professorial Appointment Committee (PAC)*, etc.

- **Nilai University (NILAI U), Malaysia**

- 2011 Oct-2015 Jan *Dean*, Faculty of Engineering, Science and Technology (FEST).
2013 May-2015 Jan *Professor*, Department of Engineering.
2011 Oct-2013 May *Associate Professor (I)*, Department of Engineering.

Main administrative roles include:

- Chairman, *Academic Disciplinary Committee* (2012-2013).
- Chairman, *Research Management Centre* (RMC) (2013-2014).
- Chairman / Team Manager / Chef de Mission, *NILAI U Campus Games* (FEST – 1st prize) (2011-2012).
- Chairman, *Faculty Curriculum Review Committee*, *Faculty Lab Management Committee* (2011-2014).
- Member of the *Senate* (Senate), *Academic Heads* (HODs) meeting, *Senior Management* meeting (SMM), *Operations* (Ops) meeting, *Coordination & Implementation* meeting (CIM), *Research Innovation Centre* (RIC), *Research Grants Screening* committee, *MyGrants* coordinator (2011-2014).
- Development of *NILAI U Strategic Plans*, *Business Plans*, *Collaboration* initiatives (2011-2014).
- Dean of the largest faculty, comprising of 4 *departments* (Aircraft Maintenance, Applied Sciences, Computing, Engineering), 19 *programmes*, *purchasing & procurement*, *budget* planning, *appraisals & target setting*, *franchise* programmes, *dual-award* programmes, *EAC & MQA* accreditation, *implementation & enforcement*, etc. (2011-2014).
- *Marketing* activities, *Orientation* briefing speaker, *Exciting Engineering* speaker, *Foundation* students progression briefing speaker, *Open Days*, *Convocations*, VIP for many events, *Book launch*, *MOU signing*, etc. (2011-2014).

• **Multimedia University (MMU), Malaysia**

2015 Jan-2016 Dec	<i>Adjunct Professor</i> , Faculty of Engineering (FOE)
2011 Dec-2014 Dec	<i>Adjunct Associate Professor</i> , Faculty of Engineering (FOE)
2011 Mar-2011 Oct	<i>Deputy Dean</i> , Institute for Postgraduate Studies (IPS).
2010 Dec-2011 Feb	<i>Acting Dean</i> , Faculty of Engineering (FOE).
2010 Jan -Dec	<i>Deputy Dean</i> , Faculty of Engineering (FOE).
2009 Jul -2011 Nov	<i>Associate Professor (B)</i> , Faculty of Engineering (FOE).
2005 -2011	<i>Program Coordinator</i> , Bachelor of Multimedia (Hons) Computer and Digital Art.
2005 May-2008 Feb	<i>Deputy Head</i> , Reserve Military Training Unit (RMTU).
2004 May-2009 Jun	<i>Senior Lecturer</i> , Faculty of Engineering (FOE).
2003	<i>Assistant Program Coordinator</i> , B.Eng. (Hons) Electronics majoring in Computer.
2000 Jul -2004 Apr	<i>Lecturer</i> , Faculty of Engineering (FOE).
1997 Nov-2000 Jul	<i>Tutor</i> , Multimedia University / Universiti Telekom (Melaka & Cyberjaya), Malaysia.

Main administrative roles include:

- Advisor & Task Force Head (Design & Development), *Homepage Committee*, (FOE, 1998-2008).
- Technical Advisor & developer of Faculty of Engineering electronic *Handbook* (2001-2005).
- Lab Tour leader, Designer of posters/banners/booth/slideshow/flyer, Academic advisor, Seminar speaker, *MMU Open Day* (2005-2007).
- Co-opt committee & System Administrator, international *Multimedia Cyberscape Journal* (2000-2008).
- Evaluator, *MMU IRPA Review Panel* for completed projects (2006).
- Committee Member, *e-Science Fund Internal Screening Committee* (2006-2011).
- Member of the *Senate*, *Dean's Council*, *Centre of Excellence*, *Chairman of Faculty Board*, *Chairman of Image & Video Processing Special Interest Group*, *Group Leader for Industrial Training Committee*, *Subject Coordinator*, etc. (2006-2011).
- Involved in marketing activities, budgeting, Open days, Convocations, talks, franchise programme, *EAC & MQA* accreditation visits, etc. (1997-2011).

• **Soongsil University (SSU), Seoul, Korea**

2008 Mar-2009 Mar	<i>Assistant Professor</i> , School of Media, College of Information Science.
2007 Nov-2008 Dec	<i>Post-doctoral researcher</i> , Human-Centered Interface Lab, Department of Media.

• **Others – Malaysia, United States of America (USA), United Kingdom (UK)**

1997 Aug-1998 Jan	<i>Executive Trainee</i> (Management Trainee Program), Telekom Malaysia, Malaysia.
1996 Oct-Dec	<i>HelpDesk volunteer</i> , Department of Computing Society, Imperial College, U.K.
1995 Jul-Sept	<i>Food Host</i> , Cedar Point, Sandusky, Ohio, USA ("Work America" student exchange work & travel programme).
1994 Jul-Aug	<i>Practical Trainee</i> , Project TeAMS, Telekom Malaysia, Kuala Pauh, Malaysia.
1991 Nov-1992 Feb	<i>Line operator</i> , BP Petroleum & lubrication factory, Port Klang, Malaysia.

ATTAINMENT OF POSITIONS OF RESPONSIBILITY & EXPERIENCE

CONSULTANT:

Have had the opportunity to render specialised service to various industries in terms of development, evaluation and training. Some of the notable ones are as follows:

- **Senior Consultant** (My Bytes Sdn. Bhd.), Development of Cyberjaya RoadMap 2011-2015 project (Multimedia Development Corporation / MDeC, 2010-2011).
- **Technology Assessment Consultant** for Multimedia Grant Scheme (MGS) under MDeC:
 - i) Insurance Business Intelligence Service Automation (iBiz, 2002-2005).
 - ii) Intelligence Analytical Application for Retail Industry (eInsightView, 2007).
 - iii) Intelligent Assistance & Service Agent (IASA, 2007).
 - iv) Ezytouch Predictive Dialer application & Hosted IP contact center solution (Ezytouch, 2007).
 - v) Alpha Prime digital intermediate service (AP, 2007).
 - vi) Bluguard ALPA (ALPA, 2008-2010).
 - vii) SLED-OCT (SELD-OCT, 2009).
- **Technical Due Diligence Consultant**, for venture capitalists (2002).
- **National Screening Committee**, *Fundamental Research Grant Scheme (FRGS)* (2009-2011).
- **Program Champion**, 1CiTiZEN certification at NILAI U (Ministry of Education, 2012-2014).
- **Counterpart (Content Development Task Force) & System Administrator**, Malaysia-Japan *Multimedia Tele-education System project (NMES)* (JICA, 2000-2008).
- **Judge / Evaluator:**
 - i) Young Inventors Challenge inter-school ASEAN-level competition (Association of Science, Technology and Innovation - ASTI, 2014-2016).
 - ii) Science Fair for Young Children inter-school national-level (Malaysia) competition (Dharra Foundation 2012, 2014-2015).
 - iii) IEEE Malaysia FYP Competition inter-university national-level (Malaysia) online final year project competition (IEEE Malaysia Section, 2014).
 - iv) Science Fair for Young Children inter-school (over 100 schools) Zone/state-level (Selangor and Federal Territory) competition (2010, 2011, 2012, 2014).
 - v) IEEE SPS Malaysia Best FYP Competition (UNITEN 2012, UPM 2014-2015, IEEE Malaysia 2014-2015).
 - vi) MMU-Level Business Plan Competition 2010-2011 (2010).
- **Short courses Consultant:**
 - i) "Data Compression Strategies" (IEEE SPS Malaysia, 2014).
 - ii) "Data Compression Fundamentals, Concepts & Applications" (Astronautic Technology (M) Sdn. Bhd. / ATSB, 2009).
 - iii) "UML & Software Development" (Finisar Malaysia Sdn. Bhd., 2006).
- **Website Consultant:**
 - i) *Hospital Selayang* web site development (Ministry of Health, Malaysia, 2001).
 - ii) *Askar Wataniah Malaysia* web site development (Ministry of Defence, Malaysia, 2001).
 - iii) Webmaster, *Rejimen 502AW, Batalion 1 & JAKPAW Selangor* websites (2003-2011).

ADMINISTRATOR:

Possess administrative skills which have been proven through responsibilities such as:

- **Professional / External**
 - i) Chairman (2010) / Secretary (2009) / Treasurer (2006-2007, 2009, 2014) / Committee (2011, 2012), *Cyberia Smart Homes, Cyberjaya Joint Management Body*. (Note: 2006-2008, *Pre-Management Corporation (PMC) committee*) (CSH, 2006-2015).
 - ii) Secretary (2007) / Webmaster (2006-2007) / Committee Member (2006) / Auditor (2005), *IEEE Computer Society (Malaysia Section)* (2005-2007).
 - iii) Asst. Company Commander (2013-) / Platoon Commander (2006-2012), *Regiment 502AW (Askar Wataniah)* (Ministry of Defence Malaysia, 2006-).
 - iv) Committee Member, *Selangor Territorial Army Welfare Association / Persatuan Kebajikan Anggota Sukarela Rejimen 502 Askar Wataniah Selangor* (PERASAS 502, 2010).
 - v) Team Member (MMU) for international *RSA Lab RC5 64-bit cryptography challenge* (1998-2004); and international *CSC cryptography challenge* (1999-2000).

- vi) Director (Lights & Sound for Malaysian Nite '95 and '96) / Committee Member, *Imperial College Malaysian Society (ICMS)* (IC 1995-1997).
- **University-level** (in additional to those already mentioned)
 - i) Senate Member, *University Senate* (MMU, 2010-2011; NILAI U, 2011-2014; APU, 2015-).
 - ii) Chairman, *Student Disciplinary Board* (MMU, 2009; NILAI U, 2013-2014).
 - iii) Chief Floor Warden, *Building Emergency Evacuation Committee* (FOE) (MMU, 2009).
 - iv) Coordinator, *Board of Postgraduate Studies* (2011).
 - v) Coordinator / Advisor / System Administrator, *Faculty of Engineering servers* (MMU, 1998-2006).
 - vi) Advisor, *Reserve Military Elite Club (RMEC)* (MMU, 1998-2008), *Institution of Engineers, Malaysia (IEM) MMU Student branch* (MMU, 2008-2011), *IEEE MMU Student branch* (MMU, 2009-2011), *Engineering Society (EngSoc)* (MMU, 2010-2011).
 - vii) Committee Member, *Management (Operations) Meeting, Senior Management Meeting, Coordination & Implementation Meeting*, *Academic Heads of Department* (NILAI U, 2011-2014).
 - viii) Committee Member, *Deans Council, Academic Development Committee, University Think-Tank Task Force, Judgment Committee* (MMU, 2008-2011, APU, 2015-).
 - ix) Committee Member, *Professorship Selection Committee* (NILAI U, 2014; APU, 2015-).
 - x) Committee Member, Open Source task force, *IT Council* (MMU, 2003).
 - xi) Liaison Officer, *MMU Press* (MMU, 2004), *Faculty of Engineering student affairs* (FOE MMU, 2009).
 - xii) Vice President / Executive Vice President, *Department of Computing Society (DoCSoc)*, Imperial College of Science, Technology & Medicine, United Kingdom (IC, 1995-1997).
 - xiii) *Students' Representative Council* / Secretariat Head (Hostel & Cafeteria) / Project Director of several projects, *Maktab Sains MARA Kuala Lumpur* (MSMKL, 1992-1994).
 - xiv) Experienced in managing:
 - 5 Head of Departments, 2 Managers, 6 Assistant managers, 27 Lab staff, 2 Secretaries, 1 Administrative assistant, 7 Clerks, > 250 academics (MMU & NILAI U & APU, 1998-).
 - 2 faculties (FOE MMU & FEST NILAI U, 2010-); 2 postgraduate institute (IPS MMU, 2011; SoPG APU, 2015-); 3 administrative departments (RMTU MMU, 2005-2008; Incubator Centre, RMC NILAI U, 2011-2014); > 50 Labs & Workshops (MMU & NILAI U, 2002-2014).
- **Faculty-level** (in additional to those already mentioned)
 - i) Chairman, *Faculty Board, Strategic Planning Committee, Lab Management Committee (LMC)* (MMU, 2010-2011; NILAI U, 2011-2014).
 - ii) Chairman, *Student Academic Affairs Committee, MMU Open Day Committee (SAAC)* (FOE MMU, 2009-2011).
 - iii) Lab Supervisor, *Project Labs 1, 2 & 3, Faculty of Engineering* (FOE MMU, 2002-2009).
 - iv) Committee Member, *Business Unit, Purchase Evaluation Committee, Self Assessment Committee* (FOE MMU, 2008-2009).

RESEARCH LEADERSHIP:

Have had the experience in planning, procuring funding, managing manpower & resources, leading, undertaking research and development, documenting, presenting and publishing in many projects, including the following:

- Chairman, *Research & Development Committee* (FOE MMU, 2010-2011).
- Deputy Chairman, *Centre for Image Processing and Telemedicine* (CIPTM MMU, 2004-2008).
- Secretary / Coordinator, *Centre for Multimedia Communications* (CMMC MMU, 1999-2001).
- Group Leader, *Image & Video Processing (IVP) Special Interest Group (SIG), Centre for Multimedia Security & Signal Processing* (CMSSP MMU, 2009-2011).
- **Project Leader**
 - i) "Development of an Automated Optical Coherence Tomography Detection System for Retinal Structure Abnormalities" (RM 90,000 for Ph.D. GRA, MMU, 2010-2013).
 - ii) "Development of An Improved Optical Coherence Tomography Automated Disease Detection System" (RM 16,000 MMU Seed Fund, 2010).
 - iii) "Design and Performance Analysis of Optical Coherence Tomography Automated Disease Detection in Ophthalmology" (RM 17,000 MMU Seed Fund, 2009).
 - iv) "Multi-Touch Image Analysis and Object Recognition" (RM 50,400 for Masters GRA, MMU, 2009-2010).
 - v) "Multi-Disorder Detection via Automated Analysis of Magnetic Resonance Imaging Protocols" (RM 50,400 for Masters GRA, MMU, 2009-2010).

- vi) *"Improved Biliary Detection and Diagnosis through Multiresolution Analysis (I-BDeDiMA)"* (RM 87,000, Brain Gain Malaysia grant under MOSTI and Academy of Sciences, Malaysia, 2008).
- vii) *"Image Processing and Computer Vision, Multimedia Processing & Machine Learning Approach for Image Processing"* (KRW 24,000,000, Brain Korea21 grant under Ministry of Human Resource, Korea & Soongsil University, Korea, 2007-2008).
- viii) *"Computer Aided Medical Image Analysis for Intra-operative Low-Field MRI in Neurosurgery"* (RM 119,000 Science Fund grant under MOSTI, Malaysia, 2007-2009).
- ix) *"Computer Aided Medical Image Diagnostic System for Liver Diseases"* (RM 109,400 IRPA grant under Ministry of Science, Technology & Innovation - MOSTI, Malaysia, 2004-2007).
- x) *"Automated Biliary Tree Analysis using MRCP"* (MMU-Hospital Selayang, 2001-2006).
- xi) *"Development of New Lossy & Lossless Algorithms for Data Compression"* (MMU, 1998-2002).

- **Researcher**

- i) *"Automated Diagnosis and Prognosis of Chronic Wounds for e-Health Applications"* (RM 194,600 Science Fund grant under MOSTI, Malaysia, 2017-2019).
- ii) *"Design and Development of Multicast Key Management and Data Delivery Method over Wireless IPv6 Networks - An Empirical Implementation"* (RM 15,000, NILAI U Internal Research Grant, 2013-2014).
- iii) *"Design and Development of New Natural User Interface Module and Cost Effective Camera-based Multi-touch Tabletop to Enhance Teaching and Learning in Institution of Higher Learning"* (RM 40,000 TM R&D Grant, 2010-2012).
- iv) *"Design & Development of Technology-enhanced Multi-touch Tabletop Home Controlling System"* (RM 59,350 Penang ICT Chair Research Grant, 2010).
- v) *"Design & Development of Content Based Medical Imaging Retrieval System"* (RM 90,000 for Ph.D. GRA, MMU, 2010-2012).
- vi) *"Development of Automated Decision Support System for Diabetic Retinopathy Disease"* (RM 101,500 ScienceFund grant, MOSTI, 2006-2008).
- vii) *"Development of Content-And-Semantics-Based Image Retrieval System for Medical Applications"* (RM 87,250 ScienceFund grant, MOSTI, 2006-2008).
- viii) *"Design of a Setup For 3D Ultrasound Using Visual Probe Tracking"* (2002-2006).
- ix) *"Optimisation Of Digital Manipulations of Medical Images" / "Digitisation, Lossy Compression and Visualisation in Cost-Effective Telehealth Environment"* (2002-2004).
- x) *"Performance Simulations for TINA Networks"* (USD 40,000 TINA Consortium grant, 2001-2004).
- xi) *"Intelligent Systems in Medical Image Analysis and Their Impact on Image Compression in Telemedicine"* (2001-2003).
- xii) *"Networked Multimedia Education System"* (RM 15 million Japanese International Cooperation Agency JICA, 2000-2008).

EVENT ORGANISER:

Have assisted in organising many events. The more prominent roles undertaken:

- **International**

- i) International Advisory Panel, *National Conference on Emerging Trends & Transformations in Engineering & Technology*, Chennai, India (NC2(ET), 2017)
- ii) International Advisory Panel, *International Conference on Computer, Communication and Signal Processing (ICCCSP 2016)*
- iii) International Advisory Panel, *International Conference on Engineering and Scientific Innovations (ICESI 2015)*.
- iv) Advisory Committee Panel, *International Conference on Biosignal Analysis, Processing and System (ICBAPS 2015)*.
- v) General Chair (2013), General Co-chair (2017), Finance Chair (2011), Local Arrangements Chair (2009), Publicity & Website Chair (2015), Session Chair (2009-), *IEEE International Conference on Signal and Image Processing Applications (IEEE ICSIPA, 2009-2017)*.
- vi) General Chair (2017), Organising Committee (2010-2016), *Symposium on Image Processing, Image Analysis and Real-Time Imaging (IPIARTI, 2010-2017)*.
- vii) General Co-chair, *IEEE Student Conference of Research and Development (IEEE SCORd, 2011)*.
- viii) Publicity & Website Chair, *IEEE Signal Processing Society Seasonal School (Winter School, 2016)*.
- ix) Local Arrangements Chair, Session Chair, *IEEE International Conference on Industrial Engineering and Engineering Management (IEEM, 2014)*.

- x) Local Organising Chairman (2001), Technical Committee coordinator (2007), Webmaster (2000-2001), Local Organisation (2004-2006), Session Chair (2004), Reviewer (2006-2007), *MMU International Symposium on Information & Communications Technologies* (M²USIC, 2001-2007).
- xi) Technical Program Committee Co-Chair, *International Conference on Information Networking 2011* (ICOIN 2011).
- xii) Local Organisation, *Asia Pacific Wireless Broadband Forum* (AP-WBF, 2005-2006).
- xiii) Local Organisation & Session Chair, *IEEE Malaysia International Conference on Communications* (MICC-LiSLO-ISCE, 2001).
- xiv) Technical Committee, *3rd Asia Pacific Telecommunity Telemedicine Workshop 2005* (APT, 2005).
- xv) Webmaster, *Telecommunications Information Networking Architecture* (TINA, 2002).
- xvi) Organising Committee, *Symposium on Symposium on Acoustics, Speech and Signal Processing* (SASSP, 2013-2017).

- **Local**

- i) Chairman, *Big Data Analytics Seminar 2016* for the APU Data Science Week 2016 and Big Data Week Asia 2016 (DSW, 2016).
- ii) Steering Committee & co-organiser, *IEEE Conference on Innovative Technologies in Intelligent Systems & Industrial Applications & Exhibition* (CITISIA, 2008).
- iii) Local Organisation & Session Chair, *Real-time Technology and Applications Symposium* (RENTAS, 2006).
- iv) Organising Committee, *Professional Development Workshop Series* (PDWS, 2016).
- v) Co-organiser, *MMU-TechSource "The Ultimate Computing Environment for Technical Education" Seminar & Exhibition* (2000).
- vi) Co-organiser, *MMU-Ministry of Defense Exhibition* and Recruitment drive at MMU (1998-2004).

COLLABORATION:

Working with collaborative partners has enriched my experience and skills in communication with various levels, critical thinking, practical & timely development, knowledge, troubleshooting and adapting to various environments. Some notable collaborative roles include:

- **International**

- i) Leader / Initiator for Memoranda of Agreement (MOA) for various research, staff & student exchange and teaching & learning collaborations between APU and:
 - Krabi Technical College, Krabi, Thailand (2017-2019)
 - Anil Neerukonda Institute of Technology and Sciences, Visakhapatnam, India (2017-2019)
 - Vels University, Chennai, India (2016-2018)
 - Amity University, Noida (New Delhi), India (2016-2018)
 - RMIT Vietnam, Vietnam (2016-2018)
 - QuestionPro, USA (2016-2018)
 - Villa College, Male, Republic of Maldives (2015-2017)
 - Telekom Malaysia (TM) (2016-2017)
 - Immanuel Arasar JJ College of Engineering, Kanyakumari, India (2015-2017)
 - SAS Institute, Malaysia (2015-2016)
- ii) Leader for collaboration with the *Media Arts, Graphics and Interactive Content (MAGIC)* Lab and *Human-Centered Interface (HCI)* Lab at Soongsil University (Korea, 2008-2009).
- iii) Coordination with *Staffordshire University* (UK), *Oxford Brookes University* (UK), *Kingston University London* (UK), *University of West England* (UWE), *Sheffield Hallam University* (UK), *Birmingham City University* (UK), *Manchester Metropolitan University* (UK), *Carlow Institute of Technology* (Ireland), *California Baptist University* (USA), *University of San Carlos* (Philippines) (NILAI U, 2011-).
- iv) Representative to *1st German-Malaysia-Indonesia Academic & Cultural Workshop* (2000), *MMU-PTIT (Vietnam)* (2000), *MMU-Motorola University* (2001), *MMU-JICA Sri Lanka* (2005), *MMU-Maharakham University (Thailand)* (2007) collaboration initiatives (MMU, 2000-2007).

- **Local**

- i) Leader for Knowledge Technology collaboration initiative with MIMOS (MMU, 2006).
- ii) Leader and collaborator of several medical research projects with *Hospital Selayang* (2001-2007), *Hospital Putrajaya* (2006-2010) and the *International Specialist Eye Centre* (ISEC, 2009-2011).
- iii) Leader for MMU collaborations with *Macromedia / RQNet / Intranesis Communications* (2000-2007), *Infortech MSC* (2000-2001) and River Basin project with *KTA Tenaga* (2005).

- iv) Faculty Champion for *External Competitions* (FOE MMU, 2006-2007).
- v) Representative to MMU-Philips Malaysia (2001), MMU-Motorola University (2001), MMU-Daya Dynamics (2001), MMU-MIMOS (2007) collaboration initiatives (MMU, 2001-2007).

TEACHING:

The primary role of an academic is teaching, but this comes in many facets, ranging from direct teaching, evaluation of 'teachers', planning and implementation of syllabus and course structures, to policy making at the various levels:

- **Courses Taught** – Lecturer / Coordinator / Moderator / Examiner / Tutor / Lab Instructor for Postgraduate, Undergraduate and Diploma levels:

APU (2015-)

- Research supervision (Masters/PhD)
- MSc Dissertation (Masters)
- Engineering Software & Applications
- Further Artificial Intelligence
- FYP Project 1 & 2

- Operating Systems
- Engineer & Society
- Object Oriented Programming
- Computer & Engineer
- Communication Devices
- FYP Project 1 & 2

NILAI U (2011-2014)

- Fundamentals of Communication Theory
- Energy Management
- Understanding Engineering
- Industrial Engineering & Management

SSU, Korea (2008)

- Special Topics in Computer Vision (Masters/PhD)
- Data Compression (Masters/PhD)
- Programming 1 & Lab
- Linear Algebra

MMU (2002-2017)

- Research Methodology (Masters, PhD)
- Compiler & Translator
- Software Engineering
- Database Systems

UniKL-MFI (2004)

- Data Networking & Telecommunications

- **Short Courses** – designed and instructed in:

- i) Web Design for Army (2000), IEE MMU Student Chapter (2003), Secondary school students (2002).
- ii) PowerPoint in Teaching for school teachers (2002).
- iii) Agile Technologies for industry (2006).
- iv) Data Compression for industry (2009).

- **Supervision**

- i) 10 PhD, 6 Masters, 40 undergraduate project students (2001-).
- ii) 9 Research Officers, 2 GRAs, > 25 researchers (CIPTM & CMMSP MMU, 2000-2014; NILAI).

- **Examination & Accreditation**

- i) Chairman, Examination Board (FEST NILAI U, 2011-).
- ii) Auditor, Pre-accreditation Audit for Engineering Programmes (FOE MMU, 2010).
- iii) Committee member, Examination Rules and Regulations Committee, Postgraduate English Interview Committee, Research & Innovation Committee (FOE MMU, 2006-2010).
- iv) Faculty expert, evaluation panel of postgraduate (PhD and MEngSc) proposal defence and work completion seminars (FOE MMU, 2004-2013).
- v) Been involved and coordinated accreditation visits by the Engineering Accreditation Council (EAC) and Malaysian Qualifications Agency (MQA) at the faculty and university levels for various programmes (2006-).

- **Programme Development**

- i) Design new programmes, Bachelor of Technology degree programme (FOE MMU, 2009), Certificate in Automotive Sales (NILAI U, 2013), Diploma in Automotive Engineering (NILAI U, 2013-2014), Masters of Engineering Science (NILAI U, 2013-2014), MSc. Biotechnology (NILAI U, 2013-2014), PhD. Engineering (NILAI U 2013-2014), MSc in Data Science and Business Analytics (APU, 2015), MSc in Digital Security and Forensics (APU, 2015), PhD in Engineering (APU, 2015), MPhil in Engineering (APU, 2015).
- ii) Outcome based Learning syllabus revision committee member for Engineer & Society, Operating Systems and Software Engineering (FOE MMU, 2004-2005); Project 1 & 2, Energy Management, Understanding Engineering and Industrial Engineering Management (2012-2014).

- iii) Academic & Corporate Planning committee (FOE MMU, 2006-2010).
- iv) Educational Innovation Committee, for university-wide *e-learning policy* setting (MMU, 2007-2010).
- v) University Teaching Observer, evaluate teaching performance of new staff (MMU, 2004-2008).
- **Intake Assessment**
 - i) Career Counsellor / Advisor, B.M.M. (Hons) Computer & Digital Art students (FOE MMU, 2007).
 - ii) Credit Transfer committee (FOE MMU, 2004-2010).
 - iii) Evaluation Committee, *computer engineering* degree intake of Diploma holders (MMU, 2006-2011).
 - iv) Intensive Research Proposal Writing Workshop 1/2009 – facilitator (MMU, 2009).

KEYNOTE SPEAKER / INVITED SPEAKER / GUEST LECTURE:

At international and local platforms including:

- Guest of Honour & Keynote Speaker of the International Conference on Smart Computing & Informatics (SCI 2017), Visakhapatnam, India (2017).
- Keynote Speaker at the International Conference of Contemporary Topics in Power Engineering and Aiding Technologies (ICCPEAT 2017), Pondicherry, India (2017).
- Keynote Speaker at the 7th International Conference on Cloud System and Big Data Engineering (CONFLUENCE 2017), Noida, New Delhi, India (2017).
- Chief Guest & Keynote Speaker at the International Conference on Recent Innovations in Science Engineering and Technology (ICRISET'16 & ICRISET'17), Kanyakumari, India (2016-2017).
- Keynote Speaker at the International Conference on Emerging Trends in Engineering Research (ICETER'16), Chennai, India (2016).
- Guest of Honour & Keynote Speaker at the CONFLUENCE 2016: Global Technology, Innovation & Entrepreneurship Summit - 6th International Conference on Cloud System and Big Data Engineering, Noida, India (2016).
- Keynote Speaker at the 2015 IEEE Student Conference on Research and Development (IEEE SCORED 2015), Kuala Lumpur, Malaysia (2015).
- Chief Guest & Keynote Speaker at the 4th International Conference on Computing and Communication Technology 2015 (ICCCT15), Kanyakumari, India (2015).
- Invited Speaker (Tutorial) at the IEEE Signal Processing Society Winter School 2016/2017 on Recent Advances in Biomedical Imaging, Kuala Lumpur, Malaysia (2016).
- Invited Speaker at the Image Processing, Image Analysis and Real-Time Imaging (IPIARTI) / Symposium of Acoustic, Speech and Signal Processing (SASSP), University Malaysia Perlis (UniMAP) (IEEE, 2014).
- Guest lectures on Data Compression, Universiti Tenaga Nasional, Malaysia ((UNITEN, 2011, 2013, 2014, 2016).
- Invited Speaker at the Seminar on Advances in Biomedical Engineering, AIMST University, Kedah, Malaysia (AIMST, 2010).
- Invited Speaker at the National Biotechnology Seminar (NBS 2010), Kuala Lumpur, Malaysia (MOSTI, 2010).
- Invited Speaker at the International Conference on Computational Intelligence, Man-machine Systems and Cybernetics (CIMMACS '08), Cairo, Egypt (2008).
- Invited Speaker at the International Conference on Signal, Speech and Image Processing (SSIP'06), Lisbon, Portugal (2006).
- Invited Speaker at the International Conference on Automation and Information (ICAI 2003), Tennerife, Spain (2003).
- Invited Speaker at the World Multi-Conference on Circuits, Systems, Communications and Computers (CSCC 2000), Vouliagmeni, Greece (2000).

ACHIEVEMENTS & AWARDS

Professional Body / External Societies

- *Best Chapter Award*, IEEE Signal Processing Society (International) (2011-2012, 2013-2014).
- *Chapter Certification*, IEEE Signal Processing Society (International) (2014-2018).
- *2nd Best Performing Chapter 2013*, awarded to IEEE Signal Processing Society by IEEE Malaysia Section (25/1/2014).
- "Young Achiever" in Legacy of the Pioneers, vol. 2, pp. 173-174 (ISBN: 978-983-43176-2-1) (2009).

- *Certificate of Recognition* – for PhD and academic contributions by KJB (Malaysia) (16/12/2006).
- *Achievers Award* – recognition by KJB (Malaysia) for achievement in vocation / profession (01/08/2004).
- JCS 75th Anniversary Commemorative Award scholar for postgraduate achievement (2000).
- *Runner up* (Falling plates team event) and 5th place (individual prize out of 200 participants), Jugra shooting range (open competition organised by Rej 502 AW) (18/04/2010).
- 2nd prize, Bernam River Rafting Expedition (Regiment Adventure Exercise) (23/08/2003).
- 'Member of the Year' (1991, La Salle Klang cadet and Division 5 KPS), 'Member of the Month' (April 1991, La Salle Klang cadet) and *Assistant Division In-Charge* (1991, ACS cadet), St. John Ambulance Malaysia.

International

- *Silver medal*, "Hand Gesture TV Entertainment and Home Controlling System", 21st International Invention, Innovation and Technology Exhibition (ITEX 2011), Kuala Lumpur (20-21/5/2011).
- *Silver medal*, "Multi-touch Tabletop Home Control and Entertainment System", 21st International Invention, Innovation and Technology Exhibition (ITEX 2010), Kuala Lumpur (14-16/5/2010).
- *Brain Korea 21 (BK21) - Post-Doctoral Researcher*, sponsored by the Ministry of Education and Human Resource Development, Republic of Korea (01/11/2007-29/02/2008).
- Soongsil University (Seoul, Korea) selected as *one of the best schools in information technology* (University News Network, 14/10/2008).
- Listed in most editions of *Marquis Who's Who In The World* (2007-).
- Inclusion by the International Biographical Centre (IBC), Cambridge, England in the international lists:
 - *2000 Outstanding Intellectuals of the 21st Century 2012 / 2013* (25/04/2008, 26/07/2013).
 - *TOP 100 ENGINEERS 2013* (29/03/2013).
 - *LEADING ENGINEERS of the WORLD 2008 / 2013* (30/05/2008, 22/02/2013).
 - *LEADING EDUCATORS of the WORLD 2008* (23/05/2008).
 - *IBC FOREMOST EDUCATORS of the WORLD 2008* (27/06/2008) / *FOREMOST ENGINEERS of the WORLD 2008* (22/08/2008) / *TOP 100 EDUCATORS 2008* (05/09/2008).
 - *21st Century Award for Achievement* (01/08/2008).
- Interview by Tzu Chi for role & support in recycling activities – news article (13/2/07, <http://express.tzuchi.net/express.nsf/95d706eceb2858c48256cef0010db0a/ec1e26250162f97d4825729c00400472?OpenDocument>) & news videoclip of interview on TzuChi TV, Taiwan.
- British Universities North America Club (BUNAC) "Work America" program work & travel experience at Cedar Point, Sandusky, Ohio, USA (1995).

National

- *Pingat Kebaktian (PK) – Medal for Commendable Service*, Malaysia (10/2012).
- *Best Presenter (Operational Plan)*, Senior Officers course 1/2013, Pusat Latihan Askar Wataniah (PUSWATAN) (08/10/2013).
- *Best Military (Penuntut Ketenteraan Terbaik)*, Staff & Tactic Grade 3 course 1/2011, PUSWATAN (22/3/2011).
- *Best Academic (Penuntut Akademik Terbaik)*, Potential Officers course 1/2003, PUSWATAN (2003).
- *Brain Gain Malaysia - International Fellowship & Post-Doctoral programme Scientist*, sponsored by the Academy of Sciences, Malaysia (ASM), and Ministry of Science, Technology and Innovation, Malaysia (MOSTI) (15/04 – 15/12/2008).
- Malaysian Book of Records qualifier for "Largest Backward Walk" event (11/03/2001) and "First Video Conferencing Event on Mount Kinabalu" (16/09/2002).
- Top 200 Executives of Telekom Malaysia group shortlist, achieved score of 80% for Testing for Selection & Training evaluation and qualifier for the Senior Manager's Assessment Centre (2001).
- Telekom Malaysia scholar for A-Levels and overseas undergraduate studies (UK) (1992-1997).

Institution

- Contributed to Asia Pacific University of Technology & Innovation improving its star rating in the Malaysia Research Assessment (MyRA) in 2016/2017.
- Contributed to Nilai University attaining full university status and Setara 5 ranking in 2012.
- Contributed to Multimedia University's performance and its achievement in local and international awards such as the *2007 Outstanding Engineering Achievement Award* from The Institution of Engineers Malaysia, the *2007 ASEAN Federation of Engineering Outstanding Engineering Achievement Award* and being ranked top private university in Malaysia in the *Top 200 Asian Universities 2009* by QS Quacquarelli Symonds Ltd (compilers of Times Higher Education).

- *Best Booth Award*, MMU Open Day (Cyberjaya) (21/03/2010).
- Multimedia University Best Staff Award (Academic) nominee (2000-2001, 2009).
- *VIP* for Indian Cultural Society (ICS, MMU) events, including the signatory to the UNESCO-recognised cultural performance event (18/8/2007).
- Teaching evaluations > 4.0 (80%) achieved in most semesters (MMU, 1998-2011; NILAI U, 2011-).
- Interview by MMU Alumni on Research Highlight "Computer Aided Medical Image Diagnostic System For Liver Disease" (2005, <http://alumni.mmu.edu.my/Alumni/uploads/loges.htm>).
- Course storyboard selected as sample for Multimedia Learning System (MMLS) at MMU (2003).
- MMU Commendation: Courses Online web Master (1998-2002), Performance appraisal (commendable service / Outstanding) (1999-2008), Courses Online, Teaching Achievement (1998, 2002).
- Best Group prize for work on the formal specification language (Z) and Latex (1997).
- MSMKL High Achievers Award for GCE A-Levels (1994).
- Set up the Computer Club of MARA Science College, Kuala Lumpur (MSMKL) (1992).

PROFESSIONAL MEMBERSHIP

- *Associate ASEAN Engineer*, AFEO Governing Body, Phnom Penh, Cambodia (AAE 2975, 2012-).
- *Charter Member*, Asia Life Science Council (2009-2011) and Science Advisory Board (2009-2011).
- *Corporate Member*, Malaysian Invention and Design Society (MINDS) (1999-2011).
- *Council Member*, IT Professionals Skills Standards Council of Malaysia (2005).
- *Senior Member*, Institute of Electrical and Electronics Engineers, USA (IEEE) (40315185, M'98, SM'04-).
- *Member / Registered*, National Council of Professors (*Majlis Professor Negara*), Malaysia (2016-).
- *Vice Chair* (2011), *Secretary* (2014), *Treasurer* (2010, 2012, 2013) and *Committee Member* (2009), IEEE Signal Processing Society (Malaysia Section).
- *Committee Member*, IEEE Technology Management Council (Malaysia) (IEEE TMC, 2014).
- *Technical Working Group Member*, Internet of Things (IoT), Prime Minister's Department, Malaysia (MIMOS, 2014).
- *Graduate Member*, Institution of Engineers, Malaysia (Grad.I.E.M.) (1998-2015).
- *Graduate Engineer* (Computer), Board of Engineers, Malaysia (BEM) (1998-).
- *Associate*, City and Guilds Institutions, United Kingdom (ACGI) (1997-).
- *Scientific Committee Member*, World Scientific & Engineering Academy and Society (WSEAS) (2000-).

RESEARCH INTERESTS & PUBLICATION SUMMARY

Expertise: main research interests are in Medical image processing, Artificial neural networks, Data compression, Web content development and Compiler design.

PUBLICATIONS:

- Books – 4 (2 text books, 1 research monograph, 1 self-development book),
- Chapters – 8 (international);
- Journals – 63 manuscripts (almost all listed in international citation indices);
- Conferences – 58 manuscripts (almost all international).
- Citations – 1651, h-index = 17, i10-index = 35 (source: Google scholar 07 March 2017).

REVIEWER:

Of technical articles by invitation in international and local books, journals and conferences:

- **Book** - Web Services Security & E-Business (published by IDL, 2005).
- **Journals**
 - i) Biomedical Imaging and Intervention Journal (BIIJ, 2009-2014).
 - ii) Biomedical Statistics and Informatics (SciencePG, 2016-).
 - iii) Clinical Anatomy (Wiley, 2010-2014).
 - iv) Computers in Biology & Medicine (Elsevier, 2009-2014).
 - v) Institution of Engineers Malaysia (IEM) Journal (2001-2007).
 - vi) International Journal of Computer Applications in Technology (2008-2014).
 - vii) International Journal of Computer Assisted Radiology and Surgery (2013-2014).
 - viii) International Journal of Electronics (2013-2014).

- ix) INTI Journal (2004).
- x) Journal of Biomedical Graphics and Computing (2012-2014).
- xi) Journal of Digital Imaging (Springer, 2009-2014).
- xii) Journal of Medical Systems (Springer, 2007-2015).
- xiii) Multimedia Cyberscape Journal (2004-2009).
- xiv) Multimedia Tools and Applications (Springer, 2009-2011).
- xv) Neural Computing and Applications (NCAA, 2016-).
- xvi) Recent Patents in Signal Processing (BSP, 2009-2015).
- xvii) Signal Processing (Elsevier, 2010-2014).
- xviii) WSEAS Transactions on Computer (2007-2014).
- xix) WSEAS Transactions on Signal Processing (2007-2014).

• Conferences

- | | |
|---------------------------------------|--|
| i) IASTED CSN 2002 (Spain). | xi) IEEE TENSYP 2014 (Malaysia). |
| ii) ICACC 2012/2013 (USA). | xii) IIS CCCT 2003-2005/2009 (USA). |
| iii) ICE2T 2014 (Malaysia). | xiii) IPIARTI / SASSP 2013-2014 (Malaysia). |
| iv) ICECCS 2012 (France). | xiv) M ² USIC 2002-2007 (Malaysia). |
| v) ICIT 2014 (UAE). | xv) SCI 2003 (USA). |
| vi) ICUT 2009 (Japan). | xvi) WSEAS ACMOS 2007 (Turkey). |
| vii) IEEE CITISIA 2008 (Malaysia). | xvii) WSEAS CSCC 2004 (Greece). |
| viii) IEEE ICME 2004 (USA). | xviii) WSEAS MACTEE 2004 (Greece). |
| ix) IEEE ICSIPA 2009-2015 (Malaysia). | xix) WSEAS NN 2007 (Canada). |
| x) IEEE TENCON 2013 (Malaysia); | xx) WSEAS TELE-INFO 2007 (USA). |

EDITORIAL BOARD MEMBER:

- i) The Scientific Pages of Information Science (2016-).
- ii) Recent Patents in Signal Processing (2009-2016);
- iii) World Journal of Radiology (2009-);
- iv) Journal of Communication Technology and Human Behaviors (2012-);

ADDITIONAL COMPETENCIES

Computer Literacy:

- Functional programming skills in C, HTML, MATLAB, IDL, SQL, Unix / Linux shell scripts, Perl, CGI, PHP, Miranda; and experienced with other languages such as Modula-2, Prolog, M68000, Visual Basic macros, SmallTalk, etc.
- Setting up and maintenance of servers (SuSE, RedHat, Apache, Xitami, IIS) on a variety of platforms (Windows 98/2000/XP/Vista, Linux, Unix).
- Participant in the British Computer Society programming competition (UK, 1997).

Working attitude:

- Perfect attendance, punctual in meeting deadlines, responsible.
- Good working relationship and teamwork with colleagues of various levels.
- Committed, detailed and quality oriented.
- Motivated by the satisfaction gained by contributing in helping improve people and organisations.

Extra curricular:

- Officer in the Malaysian Voluntary Forces.
- Exco in an international professional society.
- Active in university & student activities.
- Contributor to charitable activities including environmental care.

TRAINING ATTENDED (SELECTED)

LEADERSHIP, MANAGEMENT & STRATEGIC PLANNING:

- Leading and Managing Key Stakeholders, by APU (17-18 Dec 2015).
- Leadership and Entrepreneurship Strategies for University Leaders, by University of Cambridge, United Kingdom, AKEPT and Ministry of Education, Malaysia (16-18 Dec 2013).
- Senior Command course (1/2013), by PUSWATAN & MINDEF (25 Sept – 8 Oct 2013).
- Company Commander course (1/2013), by PUSWATAN & MINDEF (19 June – 2 July 2013).

- TM's Code of Business Ethics, by Telekom Malaysia (Sept 2011).
- ISO 9001:2008 Internal Audit Training, by JcRam Consultants (4-5 April 2011).
- Staff & Tactics Grade 3 course (1/2011), by PUSWATAN & MINDEF (21 Feb – 22 March 2011).
- Platoon Commander course (1/2010), by PUSWATAN & MINDEF (30 June – 29 July 2010).
- Effective Leadership and Communication Skills, by Melcom Network & Services (28-29 April 2005).
- Potential Officer course (1/2003), by PUSWATAN & MINDEF (21 Jan – 19 Feb 2003).
- Code of Ethics / Regulations, by Board of Engineers, Malaysia (BEM) (21-22 Oct 1998).
- Engineering Management Practice, by Board of Engineers, Malaysia (BEM) (14-15 Oct 1998).
- Management Trainee Programme, by Telekom Malaysia (1-30 Aug 1997).
- Young Executive Development Program, by Hitec Management Technology Research Institute, Malaysia (25-27 Aug 1997).
- Executive Professional Image Program, by Mashal Sdn. Bhd. (15-16 Aug 1997).

EDUCATION, RESEARCH & TECHNOLOGY:

- Blended Learning & Flipped Classroom, by Prof. Dato' Mohammed Amin Embi (UKM) (3 Dec 2016).
- Data Lakes for Big Data, by EMC² (online) (May-June 2015).
- MYGRANTS Online Project Progress Reporting, by Ministry of Education (MOE) (8 Sept 2014).
- COPPA Document Preparation, by Malaysian Qualifications Agency (MQA) (25 June 2014).
- Active Learning, by Prof. Dr. Rod Foist (California Baptist University, USA) (20 June 2014).
- Internet of Things (IoT), by MIMOS (speakers from well-known industry players) (14-15 May 2014).
- Outcome-based Education (OBE) Awareness Programme: Issues & Challenges, by Prof. Ir. Dr. Ramesh Singh (UM) (25 Nov 2013).
- PLC & HMI (SIMATICS S7-1200 Micro PLC and TIA Portal), by Siemens (11 Sept 2012).
- IC Citizen Digital Etiquette, by Prestariang (13-14 Sept 2012).
- Project-Oriented Problem-Based Learning (POPBL), by AKEPT and Ministry of Education, Malaysia (27-28 April 2012).
- Developing Applications for the Java EE Platform, by Sun Microsystems (14-17 & 21 December 2009).
- Train the Trainer, by Multimedia University (6-7 Oct 2009).
- Multimedia Courseware Development Technology, by JICA, Japan (18 Feb – 11 March 2005).

HEALTH & SAFETY:

- Recognizing Symptoms of Common Psychological Disorder among College Students, by Dr. Diana Lea Baranovich (15 August 2014).
- Health, Safety and Environment (HSE), by ART (24-25 March 2014).
- Health Talks on Prostate Cancer, Liver, Lungs, Heart (Smoking) & Thalassemia, by Multimedia University (9 June 2010).
- Safety & Health at Work, by Board of Engineers, Malaysia (BEM) (7-8 Oct 1998).
- Cardio Pulmonary Resuscitation (CPR), by St. John Ambulance, Malaysia (28 May 1991).

SKILLS:

- Essentials of Management Accounting Research Methodology, by Chartered Institute of Management Accountants (10 April 2014).
- Annual Camp at 4 RAMD (Kem Gurkha Malaya), by Rej 502(AW) (1-15 Nov 2010).
- Support Weapons course (1/2007), by PUSWATAN & MINDEF (8 May – 6 June 2007).
- In-House Training Programme, by Telekom Malaysia (12-30 Aug 1996).
- Overseas Study Motivation course, by Excel Training & Consultancy, Malaysia (22 July 1996).
- Motivation & Success Studies Strategies Programme, by NLP Consultancy (30 Aug – 1 Sept 1993).
- Intensive English, by Bangsar Language Centre, Malaysia (23 Nov – 5 Dec 1992).
- Intensive English, by MARA Science College, Kuala Lumpur (3 Aug – 26 Sept 1992).
- Outward Bound, by Outward Bound School, Lumut (17-26 June 1992).
- Advanced Level Study Skills, by British Council, Kuala Lumpur (1 June – 16 July 1992).
- Swimming (Advanced), by Silver Lagoon Fitness Centre, Klang (7 Jan 1990).

BOOKS / MONOGRAPHS:

1. Hairul Azhar b. Abdul Rashid, **R. Logeswaran a/l N. Rajasvaran**, Pau Kiu Nai and Sim Hock Kheng, Engineers in Society, McGraw-Hill : Malaysia, 2004 (ISBN: 9832679958)
2. **R. Logeswaran**, Hairul Azhar, Pau Kiu Nai and Sim Hock Kheng, Engineers in Society, 2nd edition, McGraw-Hill : Malaysia, 2006 (ISBN: 983-3219-36-5)
3. **Rajasvaran Logeswaran**, Predictive Artificial Neural Networks - A Block-adaptive Scheme for Lossless Telemetry Data Compression, Lambert Academic Publishing : Germany, 2010 (ISBN: 978-3-8383-3744-9).
4. Nelson David Bassey, **Rajasvaran Logeswaran** and Sarah Michel, The New Generation of Leadership – Transforming Ordinary Young People Into Outstanding and Growing Leaders, Westbow Press : USA, 2013 (ISBN: 9781490803333).

BOOK CHAPTERS:

1. **R.Logeswaran**, "Application of Generalised Regression Neural Networks in Lossless Data Compression", in Systems and Control : Theory and Applications, World Scientific and Engineering Society (WSES) Press : Greece, 2000, pp. 269-274 (N.E.Mastorakis ed., ISBN : 960-8052-11-4)
2. **R.Logeswaran**, "Enhancement Of Lempel-Ziv Coding Using A Predictive Pre-Processor Scheme for Data Compression", in Advances in Information Science and Soft Computing, WSEAS Press : Greece, 2002, pp. 238-243 (ISBN: 960 8052 602)
3. **Rajasvaran Logeswaran**, "Compression of Medical Images for Teleradiology", in Teleradiology, Springer : Berlin Heidelberg, August 2008, pp. 21-31 (ISBN: 978-3-540-78870-6 (*Print*) 978-3-540-78871-3 (*Online*), Kumar & Krupinski (eds.), http://dx.doi.org/10.1007/978-3-540-78871-3_3).
4. **Rajasvaran Logeswaran**, "Neural Networks in Medicine – Improving Difficult Automated Diagnosis of Cancer in the Bile Ducts", in Nature-Inspired Informatics for Intelligent Applications and Knowledge Discovery: Implications in Business, Science and Engineering, IGI Global : USA, July 2009, pp. 144-165, (ISBN: 978-1-60566-705-8, Chiong (ed.)).
5. **Rajasvaran Logeswaran**, "3D Medical Imaging Applications - Reconstruction and Automatic Analysis" in 3D Imaging: Theory, Technology and Applications, NOVA Science : USA, 2010 (ISBN: 978-1-60876-885-1).
6. **Rajasvaran Logeswaran**, "Robustness Verification of Artificial Neural Network Predictors in a Purpose-Built Data Compression Scheme" in Artificial Neural Networks, NOVA Science : USA, Kwon (Ed.), 2010 (ISBN: 978-1-61761-553-5), Chapter 24.
7. **Rajasvaran Logeswaran**, "Simulating Load Balancing in a Distributed Service Architecture" in Horizons in Computer Science Research, Vol. 5, NOVA Science : USA, Clary (Ed.), 2011 (ISBN: 978-1-61324-789-1), Chapter 3.
8. **Rajasvaran Logeswaran**, "Robustness Verification of Artificial Neural Network Predictors in a Purpose-Built Data Compression Scheme" in Focus on Artificial Neural Networks, NOVA Science : USA, Flores (Ed.), 2011 (ISBN: 978-1-61324-285-8), Chapter 13.

JOURNALS:

1. **R.Logeswaran** and C.Eswaran, "Effect of Encoders on the Performance of Lossless Two-stage Data Compression Schemes", IEE Electronics Letters, vol. 35, no. 18, 1999, pp. 1515-1516.
2. **R.Logeswaran** and C.Eswaran, "Performance Survey of Several Lossless Compression Algorithms for Telemetry Application", International Journal of Computers and Applications, vol. 23, no. 1, 2001, pp. 1-9.
3. **R.Logeswaran** and C.Eswaran, "Radial Basis Neural Network for Lossless Data Compression", International Journal of Computers and Applications, vol. 24, no. 1, 2002, pp. 14-19.
4. **R.Logeswaran**, "A Prediction-Based Neural Network Scheme for Lossless Data Compression", IEEE Transactions on Systems, Man, and Cybernetics - Part C: Applications and Reviews, vol. 32, no. 4, 2002, pp. 358-365.
5. **Rajasvaran Logeswaran** and Aziah Ali, "Proposal for an Automated 3D Biliary Tree Hierarchical Structure Analysis System using 2D MRCP Image Series", WSEAS Transactions on Biology and Biomedicine, vol. 1, no. 1, 2004, pp. 40-46 (*Invited paper*).
6. Miew Keen Choong, **Rajasvaran Logeswaran**, Zaharah Musa and Aziah Ali, "Comparison of Monitors for Digital Diagnosis of Medical Images", WSEAS Transactions on Biology and Biomedicine, vol. 1, no. 1, 2004, pp. 47-50 (*Invited paper*).
7. Aziah Ali, **Rajasvaran Logeswaran** and Michel R.M. Bister, "Optimal Camera Calibration for 3D Object Tracking", WSEAS Transactions on Computer, vol. 3, no. 1, 2004, pp. 262-266 (*Invited paper*).

8. Li-Choo Chen, **Rajasvaran Logeswaran** and Aziah Ali, "Improved Load Balancing in Distributed Service Architectures", WSEAS Transactions on Computer, vol. 3, no. 2, 2004, pp. 341-346 (*Invited paper*).
9. **Rajasvaran Logeswaran**, "Fast Two-Stage Lempel-Ziv Lossless Numeric Telemetry Data Compression Using A Neural Network Predictor", Journal of Universal Computer Science, vol. 10, no. 9, 2004, pp. 1199-1211.
10. **Rajasvaran Logeswaran**, "Scale-space Segment Growing For Hierarchical Detection of Biliary Tree Structure", International Journal of Wavelets, Multiresolution and Information Processing, vol. 3, no. 1, 2005, pp. 125-140.
11. **Rajasvaran Logeswaran** and Chikannan Eswaran, "Application of 3D Multiresolution Analysis for Structure Detection in 2D", Multimedia Cyberscape Journal, vol. 3, no. 4, 2005, pp. 30-34 (*Invited paper*).
12. Sheng-Hung Chung and **Rajasvaran Logeswaran**, "Mobile Agents in Mobile Telemedicine - Replication Agent and Snapshot Agent Approach to Overcome Wireless Bandwidth Limitation", Multimedia Cyberscape Journal, vol. 3, no. 4, 2005, pp. 41-45.
13. **Rajasvaran Logeswaran** and Chikannan Eswaran, "Model-based Compression for 3D Medical Images Stored in the DICOM Format", Journal of Medical Systems, vol. 30, no. 2, 2006, pp. 133-138.
14. Miew-Keen Choong, **Rajasvaran Logeswaran** and Michel Bister, "Improving Diagnostic Quality of MR Images Through Controlled Lossy Compression using SPIHT", Journal of Medical Systems, vol. 30, no. 3, 2006, pp. 139-143.
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58. Mohamed Shaafiee, **Rajasvaran Logeswaran** and Andrew Seddon, "Overcoming the Limitations of von Neumann Architecture in Big Data Systems", International Conference on Cloud Computing, Data Science & Engineering on Cloud Computing, Data Science & Engineering (CONFLUENCE 2017), New Delhi, India, January 2017 (12-13/01/2017) (*accepted Nov 2016*).

RESEARCH SUPERVISION

PhD Supervision

No.	Degree	Student	Topic	Grad.	Role
1.	Ph.D. (Engineering)	Sara Moein	Kinetic Gas Molecule Optimisation Neural Network For Classification Of Heart Disorder Electrocardiogram Signals	2013 (MMU)	Supervisor
2.	Ph.D. (Engineering)	Arif Sameh Arif	Lossless and Near Lossless Compression of Pharynx and Esophagus in Fluoroscopy Medical Images	2016 (MMU)	Supervisor
3.	Ph.D. (IT)	Alaa al-abayechi	<i>Automated Skin Melanoma Detection and Classification</i>	2016 (MMU)	Supervisor
4.	Ph.D. (Engineering)	Soon Nyeen Cheong	Design and Development of Natural User Interface Technology-Enhanced Learning Platform	2017 (MMU)	Supervisor
5.	Ph.D. (Technology)	Mohamed Shaafie	Programming for Volatile-Memory-Free Computer Systems Architectures	2017 (APU)	Supervisor
6.	Ph.D. (Engineering)	Wan Siti Halimatul Munirah	Content Based Medical Image Analysis and Retrieval System for Chest X-Rays	2016 (MMU)	Co-supervisor
7.	Ph.D. (IT)	Purwanto	Web-Based Decision Support System for Monitoring in Healthcare Management	2013 (MMU)	Co-supervisor
8.	Ph.D. (Engineering)	Mehdy Farzaneh Kazerouni	Optical Coherence Tomography for Eye Disease Classification	<i>until</i> <i>2012</i> (MMU)	Supervisor
9.	Ph.D. (Engineering)	Aris Marjuni	Image Authentication System Of The MMS Content Using Digital Image Watermarking Techniques	<i>until</i> <i>2012</i> (MMU)	Supervisor
10.	Ph.D. (Engineering)	Seyed Alireza Mohseni	Adaptive control and identification of nonlinear systems using neural networks and fuzzy models	<i>until</i> <i>2011</i> (MMU)	Co-supervisor
11.	Ph.D. (Engineering)	Mohd. Haris Lye Abdullah	Human Detection and Tracking for Visual Surveillance	<i>until</i> <i>2011</i> (MMU)	Co-supervisor

Masters by Research Supervision

No.	Degree	Student	Topic	Grad.	Role
1.	Master of Engineering Science	Miew-Keen Choong	Digitisation, Lossy Compression and Visualisation in Cost-Effective Telehealth Environment	2004 (MMU)	Supervisor
2.	Master of Engineering Science	Aziah ali	Design of a Setup For 3D Ultrasound Using Visual Probe Tracking	2005 (MMU)	Supervisor
3.	Master of Engineering Science	Chung Sheng Hung	Texture-Based Multimode Analysis for Preliminary Diagnosis of Liver Cyst and Fatty Liver using Neural Networks	2006 (MMU)	Supervisor
4.	Master of Engineering Science	Md. Shakawat Zaman Sarker	A Semi-automatic System for the Extraction of Anatomical Objects from Abdominal MRI Images	2007 (MMU)	Co-supervisor
5.	Master of Engineering Science	Wan Siti Halimatul Munirah	Development of Hybrid Content and Text-Based Image Retrieval Systems	2009 (MMU)	Co-supervisor
6.	Master of Engineering Science	Nur Faiza Ishak	Low-field MRI Brain Segmentation	<i>until</i> <i>2011</i> (MMU)	Supervisor
7.	Master of Engineering Science	K. Nityananthan	An Integrated Multimode Based Diagnosis Tool	<i>until</i> <i>2008</i> (MMU)	Supervisor

Masters Dissertation Supervision

No.	Degree	Student	Topic	Grad.	Role
1.	MSc Software Engineering	Beverly Amunga Onyimbo	User Interface Design for Mobile Apps	2016 (APU)	Supervisor
2.	MSc Technology Management	Abdulsamad Mohammed Aminu	Effectiveness of Web Personalisation using Web 3.0	2016 (APU)	Supervisor
3.	MSc in Computer Science	Cheang Wei Loong	Optimising Programming Control Flow Constructs on the Power Consumption of Programs	2017 (APU)	Supervisor
4.	MSc in Computer Science	Aishath Samha	A Conceptual Framework for An Electronic Health Record (HER) System	2017 (APU)	Supervisor
5.	MSc in Computer Science	Khalid Mohammad Saleem		2017 (APU)	Supervisor
6.	MSc in Data Science and Business Analytics	Shangiri Segaran		2017 (APU)	Supervisor
7.	MSc Technology Management	Roni Fahrozi	An Exploratory Study on Generation Y's Technology Led Tourism	2016 (APU)	Co-supervisor
8.	MSc in Computer Science	Bie Tong	Internet of Things based Alarm System and its Impact on People with Hearing Impairment	2017 (APU)	Co-supervisor
9.	MSc in Software Engineering	Chua Kiem Mun	Factors Affecting E-Commerce Adoption in SMEs: An Exploratory Study of Malaysia	2017 (APU)	Co-supervisor

Final Year Project (Undergraduate) Supervision

No.	Degree	Student	Topic	Grad.	Role
1.	B.MM. (Computer & Digital Art)	Azny binti Abdullah	Interactive Graphical User Interface for Identification of Regions of Interest in Medical Image Processing	2002 (MMU)	Supervisor
2.	B.Eng. (Computer)	Ditesh Kumar	Implementation of a Compiler for a Subset of an IDL-like Language	2002 (MMU)	Supervisor
3.	B.Eng. (Computer)	Lee Chern Hsing	Implementation of a Compiler for a Subset of an IDL-like Language	2002 (MMU)	Supervisor
4..	B.MM. (Computer & Digital Art)	Lew Kee Wai	Prediction-based Lossless Data Compression using Artificial Neural Networks	2002 (MMU)	Supervisor
5.	B.Eng. (Computer)	Mohanaraj Gopala Krishnan	Implementation of a Compiler for a Subset of an IDL-like Language	2002 (MMU)	Supervisor
6.	B.Eng. (Multimedia)	Nor Azlina Abdul	Electronic Courseware Tools for Semi-Automated Submission and Grading	2002 (MMU)	Supervisor
7.	B.Eng. (Computer)	Pechin Lo	- Interactive Graphical User Interface for 3D Applications of 2D MRI Medical Images	2002 (MMU)	Supervisor
8.	B.MM. (Computer & Digital Art)	Sabrena Shamsul Baharin	Interactive Graphical User Interface for Identification of the Biliary Tree in MRCP Medical Images	2002 (MMU)	Supervisor
9.	B.Eng. (Multimedia)	Woo Pei Yeng	Prediction-based Lossless Data Compression using Artificial Neural Networks	2002 (MMU)	Supervisor
10.	B.MM. (Computer & Digital Art)	Faizatul Sarah Nordin	Development of User-Friendly Interactive GUI for Image Analysis in IDL	2003 (MMU)	Supervisor
11.	B.Eng. (Multimedia)	Mohaini Mohd. Din	Development of User-Friendly Interactive GUI for Image Analysis in IDL	2003 (MMU)	Supervisor
12.	B.MM. (Computer & Digital Art)	Syairah Anis Amin	Code Optimisation for use in Image Processing	2004 (MMU)	Supervisor
13.	B.Eng. (Computer)	Devendra Mahendran	Content Management System for Webserver	2006 (MMU)	Supervisor
14.	B.Eng. (Electrical)	Ch'ng Su Jin	Multimedia Presenter USB Firmware	2007 (MMU)	Supervisor

15.	B.Eng. (Computer)	Choo Lett Kee	Two-stage Lossless Data compression using Supervised Artificial Neural Networks	2006 (MMU)	Supervisor
16.	B.Eng. (Computer)	Koay Hian Lim	Issues on Server Security on Linux-based Platforms	2006 (MMU)	Supervisor
17.	B.Eng. (Computer)	Leong Jay Shen	Code Optimisation for use in Image Processing	2006 (MMU)	Supervisor
18.	B.Eng. (Computer)	Tan Kong Hooi	Two-stage Lossless Data compression using Unsupervised Artificial Neural Networks	2006 (MMU)	Supervisor
19.	B.Eng. (Computer)	Gary Lim Chee Kiong	Webcam-based 3D Object Recogniser	2007 (MMU)	Supervisor
20.	B.Eng. (Computer)	Heah Hooi Kiang	Electronic Courseware System - Automatic Detection and Evaluation	2007 (MMU)	Supervisor
21.	B.Eng. (Telecomm.)	Yong Zhi Chao	Multimedia Presenter Hardware	2007 (MMU)	Supervisor
22.	B.Eng. (Computer)	Brian Mukasa	Car Radio GUI	2009 (MMU)	Supervisor
23.	B.MM. (Computer & Digital Art)	Mohd Aqmal Mohd Jamil	Webcam-based 3D Object Recognizer	2009 (MMU)	Supervisor
24.	B.Eng. (Multimedia)	Oh Yu Kiat	USB Multimedia Presenter	2009 (MMU)	Supervisor
25.	B.Eng. (Computer)	Ho Hock Sheng	Radio GUI	2009 (MMU)	Supervisor
26.	B.Eng. (Computer)	Tan Li Chye	Development of an Efficient Classroom Scheduling System using Genetic Algorithm	2010 (MMU)	Supervisor
27.	B.Eng. (Computer)	Er Song Wei	Development of an Efficient Classroom Scheduling System - Rule Based	2010 (MMU)	Supervisor
28.	B.Eng. (Computer)	Kaddu Shaban	Employee Database Report Generator	2010 (MMU)	Supervisor
29.	B.Eng. (Computer)	Nur Iffah Ishak	Employee Database Report Generator	2010 (MMU)	Supervisor
30.	B.Eng. (Multimedia)	Thinesh Sinnathambay	Webcam Based 3D Object Recognizer	2011 (MMU)	Supervisor
31.	B.Eng. (Nanotechnology)	Tan Yee Kean	Green Technologies - Solar Charge Controller	2011 (MMU)	Supervisor
32.	B.Eng. (Nanotechnology)	Cheah Jen Tat	Green Technologies - Solar Powered Bus Shelter	2011 (MMU)	Supervisor
33.	B.Eng. (Nanotechnology)	Lee Jih Yee	Green Technologies - Solar Panel System	2011 (MMU)	Supervisor
34.	B.Eng. (Electronics)	Ang Chong Loong	Green Technologies - Harnessing Potential Energy	2011 (MMU)	Supervisor
35.	B.Eng. (Electronics)	Tan Joo Bing	Green Technologies - Harnessing Kinetic Energy	2011 (MMU)	Supervisor
36.	B.Eng. (Electronics)	Yeap Chee Eng	Green Technologies - Harnessing Hydroelectric Energy	2011 (MMU)	Supervisor
37.	B.Eng. (Electronics)	Tan Yin Fung	Green Technologies - Solar Powered IP Camera	2011 (MMU)	Supervisor
38.	B.Eng. (Electronics)	Koh Kim Foong	Green Technologies - Piezoelectric Energy Harvester	2011 (MMU)	Supervisor
39.	B.Eng. (Electronics)	Lim Kheng Hui	Green technologies - Thermoelectric Generator	2011 (MMU)	Supervisor
40.	B.Eng. (Computer)	Boon Lip Kuan	Development of an Efficient Classroom Scheduling System using PSO	2011 (MMU)	Supervisor
41.	B.Eng. (Electronics)	Jansen Sie Eng Thai	Ambient Sound Cancellation System	2011 (MMU)	Supervisor
42.	B.Sc. Software Engineering	Lew Chee Thet	"MajorMe" - University Academic E-learning knowledge-Base and Preparation System	2016 (APU)	Supervisor
43.	B.Sc. IT (Info. Sys. Security)	Lee Kok Eng	Digital Image Steganography	2017 (APU)	Supervisor
44.	B.Sc. Software Engineering	Teh Hock Keong	Customized Location Search Engine System (CLSES) Propagation	2016 (APU)	Co-supervisor
45.	B.Sc. Software Engineering	Chua Pui Ern	E-Recruitment Management System	2016 (APU)	Co-supervisor

POSTGRADUATE RESEARCH EXAMINATION

PhD Examiner

No.	Degree	Student	Topic	Grad.	Role
1.	Ph.D. Computer Science	R. Beena	Dynamic Approaches for Test Case Optimization in Regression Testing	2015 (Bharathiar Uni., India)	Thesis External Examiner
2.	Ph. D	Sepideh Yazdani	Automatic Brain Segmentation in MRI	2016 (UTM)	Thesis & Viva External Examiner
3.	Ph.D.	K. Srividhya	Intelligent System for Adaptive Enhancement of Underwater Images for Accurate Object Recognition	2016 (Hindustan Institute of Technology & Science, India)	Thesis External Examiner
4.	Ph.D. (IT)	G. Radhamani	An Efficient Mobile Transaction Processing Model for XML Databases	2005 (MMU)	WCD Examiner
5.	Ph.D. (Engineering)	Bachir Guendouz	3D Ultrasound Imaging Using Visual Probe Localisation	2009 (MMU)	WCD Examiner
6.	Ph.D. (Engineering)	Nbhan Salih	Block-based Shape Representation and Retrieval for CBIR	2009 (MMU)	WCD Examiner
7.	Ph.D. Management	Lim Li Chen	Workplace Deviance Among Volunteers in Malaysia's Emergency Relief Services	2015 (APU)	WCD Examiner

Masters by Research Examiner

No.	Degree	Student	Topic	Grad.	Role
1.	M.Eng.Sc.	Choong Miew Keen	Digitisation, Visualisation and Lossy Compression in A Cost-Effective Telehealth Environment	2004 (MMU)	Thesis & Viva Examiner
2.	M.Eng.Sc.	John See Su Yang	Algorithms for an Integrated Vision-based Home Security System	2004 (MMU)	WCD Examiner
3.	M.Eng.Sc.	Aziah Ali	Design of a Setup For 3D Ultrasound Using Visual Probe Tracking	2005 (MMU)	Thesis & Viva Examiner
4.	M.Eng.Sc.	Tan Chue Poh	Microwave Remote Sensing and Satellite Image Processing for Rice Crop Field	2005 (MMU)	WCD Examiner
5.	M.Eng.Sc.	Chung Sheng Hung	Texture-Based Multimode Analysis For Preliminary Diagnosis Of Liver Cyst And Fatty Liver Using Neural Networks	2006 (MMU)	Thesis & Viva Examiner
6.	M.Eng.Sc.	Md. Shakawat Zaman Sarker	A Semi-automatic System for the Extraction of Anatomical Objects from Abdominal MRI Images	2006 (MMU)	Thesis & Viva Examiner
7.	M.Eng.Sc.	Chin Ji Jian	A Study on Identity-based Identification Schemes	2008 (MMU)	WCD Examiner
8.	M.Eng.Sc.	Wong Ting Hwee	MPSoC Approach for Optimizing the Execution Time of Description Logic Reasoner	2008 (MMU)	WCD Examiner
9.	M.Eng.Sc.	Mustafa Safa	<i>Information unavailable at the moment</i>	2008 (MMU)	Thesis & Viva Examiner
10.	M.Eng.Sc.	Thinaharan Ramachandran	<i>Information unavailable at the moment</i>	2009 (MMU)	Thesis & Viva Examiner
11.	M.Eng.Sc.	Hamada	<i>Software Testing</i>	2010 (UTP)	Thesis & Viva External Examiner
12.	M.Eng.Sc.	Ahmed ElMardi	Development Of Kidney Teleultrasound Consultation System	2010 (UM)	Thesis & Viva External Examiner
13.	M.Eng.Sc.	Mohd Narizee	<i>Information unavailable at the moment</i>	2010 (MMU)	Thesis & Viva Examiner
14.	M.Eng.Sc.	Mohammad Shafiepour	Design and Optimisation of Signal Coding Techniques for Broadband Power Line Communications	2010 (MMU)	WCD Examiner
15.	M.Eng.Sc.	Wong Ting Hwee	MPSoC Approach for Optimizing the Execution Time of Description Logic Reasoner	2011 (MMU)	Thesis & Viva Examiner

Masters Dissertation Examiner

No.	Degree	Student	Topic	Grad.	Role
1.	M.Eng. Microelectronics	Aw Chee Hong	FPGA implementation of Hough Transform for line detection	2010 (MMU)	Viva Examiner
2.	M.Eng. Microelectronics	Khor Wan Chong	Implementation of Blowfish Encryption in 12C Engine	2010 (MMU)	Viva Examiner
3.	M.Eng. Microelectronics	Lim Kai Sian	<i>Information unavailable at the moment</i>	2010 (MMU)	Project Examiner
4.	M.Eng. Microelectronics	Chin Chee Leong	<i>Information unavailable at the moment</i>	2010 (MMU)	Project Examiner
5.	M.Eng. Telecommunications	Chee Wei Keung	<i>Information unavailable at the moment</i>	2010 (MMU)	Project Examiner
6.	M.Eng. Telecommunications	Arash Asadi	<i>Information unavailable at the moment</i>	2010 (MMU)	Project Examiner
7.	MSc Technology Management	Roni Fahrozi	An Exploratory Study on Generation Y's Technology Led Tourism	2016 (APU)	Dissertation Examiner
8.	MSc Technology Management	Abdulsamad Mohammed Aminu	Effectiveness of Web Personalisation using Web 3.0	2016 (APU)	Dissertation Examiner
9.	MSc Software Engineering	Beverly Amunga Onyimbo	User Interface Design for Mobile Apps	2016 (APU)	Dissertation Examiner
10.	MSc in Software Engineering	Chua Kiem Mun	Factors Affecting E-Commerce Adoption in SMEs: An Exploratory Study of Malaysia	2017 (APU)	Co-supervisor

REFERENCES:

-
- *Tan Sri Dr. Ghauth Jasmon* (Email: ghauth@gmail.com)
(Founding President, Multimedia University, Malaysia)
Suite 1 Level 22, Wisma R&D, University of Malaya, Jalan Pantai Baru, 59990 Kuala Lumpur, Malaysia.
 - *Prof. Ir. Dr. Yow Ho Kwang* (Email: yowhk@utar.edu.my)
Dean, Faculty of Engineering and Science,
Universiti Tunku Abdul Rahman, Jalan Genting Kelang, 53300 Kuala Lumpur, Malaysia
 - *Prof. Dr. David Bradley* (Email: d.a.bradley@surrey.ac.uk)
Professor, University of Surrey, Guildford, Surrey, GU2 7XH, United Kingdom.
 - *Prof. Dr. Chikkanan Eswaran* (Email: eswaran@mmu.edu.my)
Professor, Faculty of Computing & Informatics, Multimedia University, 63100 Cyberjaya, Malaysia.

Title: DATA COMPRESSION STRATEGIES

Synopsis:

This course is intended for beginners. It provides the fundamental knowledge and experience to the purpose, benefits, methodology and applications of lossless and lossy compression of common data, including numeric, textual, sound, image and moving pictures (video). The course provides a foundation to understanding the concepts of data compression, as well as exposure to the applications and innovations in the field. By the end of the course, the participants would have gained a sound understanding on the basic principles of data compression, be able to apply the knowledge of data compression to reproduce common lossless and lossy data compression algorithms. Additionally, the participants would gain the invaluable insight on understanding and enhancing compression methodologies to develop their own algorithms for a variety of data. Exposure to newer and satellite-related data, such as multispectral and hyperspectral images, is incorporated in this course, to allow the participants to gain better knowledge and skills in the business area of the client.

Contents:

1. Introduction

- 1.1 What is Data Compression
- 1.2 Motivation for Data Compression
- 1.3 Types of Data Compression
- 1.4 Lossy Compression
- 1.5 Lossless Compression
- 1.6 Concept of Models & Coding
- 1.7 Related Issues

2. Fundamentals of Lossless Data compression & Applications

- 2.1 Suppression Methods
- 2.2 Substitution & Dictionary Methods
- 2.3 Bit Level Methods
- 2.4 Relative Encoding
- 2.5 Statistical Methods
- 2.6 Predictive Coding
- 2.7 Combination Methods
- 2.8 Other Compression Techniques

3. Fundamentals of Lossy Data compression & Applications

- 3.1 Lossy Compression
- 3.2 Examples of Lossy Compression Algorithms
- 3.3 JPEG
- 3.4 JPEG 2000
- 3.5 Motion JPEG 2000
- 3.6 MPEG
- 3.7 MP3

4. Measurements for Performance Evaluation

- 4.1 Introduction

- 4.2 Entropy
- 4.3 Compression ratio (*CR*)
- 4.4 Figure of merit
- 4.5 Compression percentage
- 4.6 Mean Squared Error (MSE)
- 4.7 Signal to Noise Ratio (SNR)
- 4.8 Other Measurements

5. Special Topics

- 5.1 Handling less common data
- 5.2 Related Issues

6. Conclusion

- 6.1 Summary
- 6.2 Exercise / Assessment
- 6.3 Recap & Closing Remarks

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Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. n/s 3 of UGC Act, 1956)

Directorate of International Relations

Visiting Professor Programmes

Details of Professor & Course:

Name of the Professor	Prof. Dr. R. Logeswaran (CV Attached) ✓
University & Country	Asia Pacific University, Malaysia
Title of the Course	Data Compression Strategies ✓
Department	Computer Science and Engineering
Dates of the Course	January 2- 8, 2019 ✓
Total No. of Hours	15 ✓
No. of Credits	1 ✓
Course Content	Attached

Prepared by: 

Coordinator – Directorate of Intl. Relations

Forwarded by: 

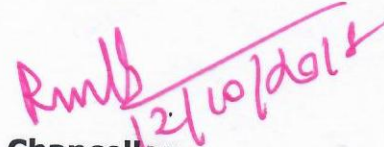
Director – Directorate of Intl. Relations


HoD

Dean


Director (Academic)

Prof. Dr. Logeswaran Rao Anne
Director of Academics


Vice Chancellor

Course code : 1157CS943

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. n/s 3 of UGC Act, 1956)

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VtU8085	CHALLA SAI KUMAR	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	C
2	VtU8213	SYED FARDAN AHAMMED	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	B
3	VtU6616	ANUP KUMAR	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	A
4	VtU7732	SHIVAM SINGH	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	A
5	VtU6931	POLLISETTY SAIRAM	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
6	VtU7121	UKKUTURI RAMESH	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
7	VtU7966	MANISH OJHA	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	C
8	VtU7041	VANGARA RAKESH	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	C
9	VtU10123	BHADINENI NARENDRA	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	C
10	VtU10153	KURWA SAI KARTHIK	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
11	VtU10154	KURVA SAI TEJA	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
12	VtU10156	MADILA PURAM SAIKUMAR REDDY	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	B
13	VtU9822	PALLAPOLU RATNAKAR	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	A
14	VtU9824	KAKUMANU VENKATA LAKSHMI NARASIMHA RAO	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
15	VTU6416	CH. RAMIJUDDIN	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	B
16	VtU10190	BATHULLA SAI GREESHMA	B.Tech	CSE	1157CS943	Data Compression Strategies	NE	NE
17	VtU9475	P LOKESH REDDY	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
18	VtU9533	KANTA MARUTHI	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
19	VtU9534	YEKAMBARAM LAKSHMI MAHENDRA BABU	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
20	VtU8980	K.V.N.BHARGAV	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
21	VtU9001	G.HARISH REDDY	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
22	VtU9878	K.RAJESH	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
23	VtU9955	YALLA PURNA CHANDRA RAO	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
24	VtU9960	MELLAMPUDI SAIKUMAR	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
25	VtU9961	NEELAM THARAKA NAVEEN	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	A
26	VtU6570	KALLAM RAMAKRISHNAREDDY	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	C
27	VTU6162	BRAMHANAPALLI SAINATH	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
28	VtU6592	ADAPA SAI PAVAN	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
29	VtU9097	N.LOKESWARA REDDY	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
30	VtU9680	PALAPARTHI PAVAN DURGA PRASANTH	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
31	VtU9710	K.VAMSI KRISHNA	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	C
32	VtU8677	MUSALI REDDY GARUHARSHITH REDDY	B.Tech	CSE	1157CS943	Data Compression Strategies	Pass	D
33	VtU9065	B.VISHNU SAI	B.Tech	CSE(DA)	1157CS943	Data Compression Strategies	Pass	B
34	VtU9365	CHITTIPROLU PAVAN KUMAR	B.Tech	CSE(DA)	1157CS943	Data Compression Strategies	Pass	D
35	VtU9081	PITTA. GANESH KUMAR REDDY	B.Tech	CSE(FC)	1157CS943	Data Compression Strategies	NE	NE
36	VtU8210	NAGELLA SASIDHAR REDDY	B.Tech	CSE(NW&CS)	1157CS943	Data Compression Strategies	Pass	D
37	VtU7282	KOTHAMASU CHANDRASEKHAR	B.Tech	CSE(NW&CS)	1157CS943	Data Compression Strategies	Pass	B
38	VtU10149	TEEGALA ABILASH REDDY	B.Tech	CSE(NW&CS)	1157CS943	Data Compression Strategies	Pass	D

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Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Our Ref. No: 2017/VF 146 & 147

Your Ref. No:

Submitted for the Approval:

Name of the Professor: Prof. Dr. R. Logeswaran

University & Country : Asia Pacific University, Malaysia

Course Titles : 1. Concepts & Future trends in Big data & Data Science (15 Hrs)

2. Data Compression Strategies (15Hrs)

Department : Computer Science and Engineering

Students : Course 1: 2015-2019, 10 Students, 2016-2020, 7 Students & 2017-2021, 24 Students ✓

Course 2: 2015-2019, 5 Students, 2016-2020, 9 Students & 2017-2021, 22 Students ✓

Training Program date: 26th to 31st December, 2018

Sl. No	Description	Amount in INR	Amount in MYR
1	Course Honorarium (Rs.3000 * 30 Hrs) (Net Amount & Tax Free)	90000	5321.59
3	Visa processing Charges (1 MYR= 17.204 as on 17 th Dec., 2018) (To be reimbursed , Bill Enclosed)	7957	462.56
4	Taxi Charges (Travel to/from airport) & parking Charges (To be reimbursed , Bill Enclosed)	2379	140.7
Total		100336	5924.85

(Rupees One lakh three hundred and thirty six only)

In this regard, I request your approval for transferring the amount in MYR to the following Account,

Name : R. Logeswaran N Rajasvaran

Account No: 8003699691

Bank name: CIMB BANK BERHAD

Branch : CYBERJAYA, MALAYSIA

SWIFT Code: CIBBMYKL

Thank You,

S. Sivaperumal

03/01/19

Entered in Budget Regi

Pg. 24, Sl. 52.



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Computing

Department of Computer Science Engineering

Specialized one credit course on
“Concepts and Future Trends in Big Data and Data
Science”

(1157CS944)

by

Prof. Dr. Logeswaran

Asia Pacific University, Malaysia



Held on

Date: January 2 to 8, 2019

Curricular Vitae
Prof. Dr. R. LOGESWARAN

Name (as in passport) : R. LOGESWARAN A/L N. RAJASVARAN
Name in publications : LOGESWARAN, Rajasvaran
Nationality : Malaysian
Gender & Status : Male (married)
Contact Information : loges@ieee.org (email), +6013-3942034 (tel.)
Address : 25, Jalan PU9/6B, Taman Puchong Utama,
47140 Puchong, Selangor, Malaysia



ACADEMIC QUALIFICATIONS

- 2006 **Doctor of Philosophy - Ph.D. (Engineering)**, Multimedia University, Malaysia.
(title: "Computer-aided Detection, Modelling and Diagnostic Techniques for Biliary Structure using MRCP").
- 2000 **Master of Engineering Science - M.Eng.Sc.**, Multimedia University, Malaysia
(title: "Neural Network Based Lossless Data Compression Schemes For Telemetry Data").
- 1997 **BEng. (Hons) Computing**, University of London, United Kingdom – (2nd Class Upper)
(Imperial College of Science, Technology and Medicine, London, United Kingdom).
- 1994 **GCE A-Levels**, MARA Science College Kuala Lumpur (MSMKL), Malaysia – (6A's).
- 1991 **Sijil Pelajaran Malaysia** (O-Levels), La Salle Klang secondary school, Malaysia – (Grade 1, 8A's).

CERTIFICATIONS

- 2012 IC Digital Citizen certification, Certiport, USA.
- 2012 1CiTiZEN Certification Programme Trainer, Ministry of Higher Education (KPT), Malaysia.
- 2010 Data Center Advanced Technical Specialist (DCATS), Novell.
- 2010 Data Center Technical Specialist (DTCS), Novell.
- 2008 Novell Certified Linux Professional (NCLP) – SUSE Linux Enterprise Server 10.
- 2008 Novell Certified Linux Administrator (NCLA).
- 2008 Linux Technical Specialist, Novell.

WORK EXPERIENCE

- **Asia Pacific University of Technology & Innovation (APU)**

- 2015 Jan-current *Professor*, Faculty of Computing, Engineering & Technology (FCET).
2015 Jan-2017 Jan *Dean*, School of Postgraduate Studies (SoPG).

Main administrative roles include:

- Chairman, *Centre for Edutainment and Educational Technologies* (CEET, 2015-).
- Chairman, *University Postgraduate And Research Committee* (PARC, 2015-2016).
- Chairman, *University & Faculty Appeals Committees* (2015-2016).
- Chairman, *University Modular Examination Boards and University Modular Awards Boards* (2015-2016).
- Chairman, *Programme Committee Meetings for PhD and Masters programmes* (PCM, 2015-2016).
- Chairman, *New Programmes Development Committee* (FCET, 2015).
- Core Member, *Asia Pacific Centre for Analytics* (APCA, 2015-).
- Dean overseeing all postgraduate programmes (PhD, MPhil, taught Masters) at the various faculties at APU (2015-2016).
- Member of the *Senate, Senior Management Team (SMT), Academic Management Committee (AMC), Quality Assurance Board (QAB), Academic Development Committee (ADC), Professorial Appointment Committee (PAC)*, etc.

- **Nilai University (NILAI U), Malaysia**

- 2011 Oct-2015 Jan *Dean*, Faculty of Engineering, Science and Technology (FEST).
2013 May-2015 Jan *Professor*, Department of Engineering.
2011 Oct-2013 May *Associate Professor (I)*, Department of Engineering.

Main administrative roles include:

- Chairman, *Academic Disciplinary Committee* (2012-2013).
- Chairman, *Research Management Centre* (RMC) (2013-2014).
- Chairman / Team Manager / Chef de Mission, *NILAI U Campus Games* (FEST – 1st prize) (2011-2012).
- Chairman, *Faculty Curriculum Review Committee*, *Faculty Lab Management Committee* (2011-2014).
- Member of the *Senate* (Senate), *Academic Heads* (HODs) meeting, *Senior Management* meeting (SMM), *Operations* (Ops) meeting, *Coordination & Implementation* meeting (CIM), *Research Innovation Centre* (RIC), *Research Grants Screening* committee, *MyGrants* coordinator (2011-2014).
- Development of *NILAI U Strategic Plans*, *Business Plans*, *Collaboration* initiatives (2011-2014).
- Dean of the largest faculty, comprising of 4 departments (Aircraft Maintenance, Applied Sciences, Computing, Engineering), 19 programmes, purchasing & procurement, budget planning, appraisals & target setting, franchise programmes, dual-award programmes, EAC & MQA accreditation, implementation & enforcement, etc. (2011-2014).
- Marketing activities, Orientation briefing speaker, Exciting Engineering speaker, Foundation students progression briefing speaker, Open Days, Convocations, VIP for many events, Book launch, MOU signing, etc. (2011-2014).

• **Multimedia University (MMU), Malaysia**

2015 Jan-2016 Dec	Adjunct Professor, Faculty of Engineering (FOE)
2011 Dec-2014 Dec	Adjunct Associate Professor, Faculty of Engineering (FOE)
2011 Mar-2011 Oct	Deputy Dean, Institute for Postgraduate Studies (IPS).
2010 Dec-2011 Feb	Acting Dean, Faculty of Engineering (FOE).
2010 Jan -Dec	Deputy Dean, Faculty of Engineering (FOE).
2009 Jul -2011 Nov	Associate Professor (B), Faculty of Engineering (FOE).
2005 -2011	Program Coordinator, Bachelor of Multimedia (Hons) Computer and Digital Art.
2005 May-2008 Feb	Deputy Head, Reserve Military Training Unit (RMTU).
2004 May-2009 Jun	Senior Lecturer, Faculty of Engineering (FOE).
2003	Assistant Program Coordinator, B.Eng. (Hons) Electronics majoring in Computer.
2000 Jul -2004 Apr	Lecturer, Faculty of Engineering (FOE).
1997 Nov-2000 Jul	Tutor, Multimedia University / Universiti Telekom (Melaka & Cyberjaya), Malaysia.

Main administrative roles include:

- Advisor & Task Force Head (Design & Development), *Homepage Committee*, (FOE, 1998-2008).
- Technical Advisor & developer of Faculty of Engineering electronic *Handbook* (2001-2005).
- Lab Tour leader, Designer of posters/banners/booth/slideshow/flyer, Academic advisor, Seminar speaker, *MMU Open Day* (2005-2007).
- Co-opt committee & System Administrator, international *Multimedia Cyberscape Journal* (2000-2008).
- Evaluator, *MMU IRPA Review Panel* for completed projects (2006).
- Committee Member, *e-Science Fund Internal Screening Committee* (2006-2011).
- Member of the Senate, Dean's Council, Centre of Excellence, Chairman of Faculty Board, Chairman of Image & Video Processing Special Interest Group, Group Leader for Industrial Training Committee, Subject Coordinator, etc. (2006-2011).
- Involved in marketing activities, budgeting, Open days, Convocations, talks, franchise programme, EAC & MQA accreditation visits, etc. (1997-2011).

• **Soongsil University (SSU), Seoul, Korea**

2008 Mar-2009 Mar	Assistant Professor, School of Media, College of Information Science.
2007 Nov-2008 Dec	Post-doctoral researcher, Human-Centered Interface Lab, Department of Media.

• **Others – Malaysia, United States of America (USA), United Kingdom (UK)**

1997 Aug-1998 Jan	Executive Trainee (Management Trainee Program), Telekom Malaysia, Malaysia.
1996 Oct-Dec	HelpDesk volunteer, Department of Computing Society, Imperial College, U.K.
1995 Jul-Sept	Food Host, Cedar Point, Sandusky, Ohio, USA ("Work America" student exchange work & travel programme).
1994 Jul-Aug	Practical Trainee, Project TeAMS, Telekom Malaysia, Kuala Pauh, Malaysia.
1991 Nov-1992 Feb	Line operator, BP Petroleum & lubrication factory, Port Klang, Malaysia.

ATTAINMENT OF POSITIONS OF RESPONSIBILITY & EXPERIENCE

CONSULTANT:

Have had the opportunity to render specialised service to various industries in terms of development, evaluation and training. Some of the notable ones are as follows:

- **Senior Consultant** (My Bytes Sdn. Bhd.), Development of Cyberjaya RoadMap 2011-2015 project (Multimedia Development Corporation / MDeC, 2010-2011).
- **Technology Assessment Consultant** for Multimedia Grant Scheme (MGS) under MDeC:
 - i) Insurance Business Intelligence Service Automation (iBiz, 2002-2005).
 - ii) Intelligence Analytical Application for Retail Industry (eInsightView, 2007).
 - iii) Intelligent Assistance & Service Agent (IASA, 2007).
 - iv) Ezytouch Predictive Dialer application & Hosted IP contact center solution (Ezytouch, 2007).
 - v) Alpha Prime digital intermediate service (AP, 2007).
 - vi) Bluguard ALPA (ALPA, 2008-2010).
 - vii) SLED-OCT (SELD-OCT, 2009).
- **Technical Due Diligence Consultant**, for venture capitalists (2002).
- **National Screening Committee**, *Fundamental Research Grant Scheme (FRGS)* (2009-2011).
- **Program Champion**, 1CiTiZEN certification at NILAI U (Ministry of Education, 2012-2014).
- **Counterpart (Content Development Task Force) & System Administrator**, Malaysia-Japan *Multimedia Tele-education System project (NMES)* (JICA, 2000-2008).
- **Judge / Evaluator:**
 - i) Young Inventors Challenge inter-school ASEAN-level competition (Association of Science, Technology and Innovation - ASTI, 2014-2016).
 - ii) Science Fair for Young Children inter-school national-level (Malaysia) competition (Dharra Foundation 2012, 2014-2015).
 - iii) IEEE Malaysia FYP Competition inter-university national-level (Malaysia) online final year project competition (IEEE Malaysia Section, 2014).
 - iv) Science Fair for Young Children inter-school (over 100 schools) Zone/state-level (Selangor and Federal Territory) competition (2010, 2011, 2012, 2014).
 - v) IEEE SPS Malaysia Best FYP Competition (UNITEN 2012, UPM 2014-2015, IEEE Malaysia 2014-2015).
 - vi) MMU-Level Business Plan Competition 2010-2011 (2010).
- **Short courses Consultant:**
 - i) "Data Compression Strategies" (IEEE SPS Malaysia, 2014).
 - ii) "Data Compression Fundamentals, Concepts & Applications" (Astronautic Technology (M) Sdn. Bhd. / ATSB, 2009).
 - iii) "UML & Software Development" (Finisar Malaysia Sdn. Bhd., 2006).
- **Website Consultant:**
 - i) *Hospital Selayang* web site development (Ministry of Health, Malaysia, 2001).
 - ii) *Askar Wataniah Malaysia* web site development (Ministry of Defence, Malaysia, 2001).
 - iii) Webmaster, *Rejimen 502AW, Batalion 1 & JAKPAW Selangor* websites (2003-2011).

ADMINISTRATOR:

Possess administrative skills which have been proven through responsibilities such as:

- **Professional / External**
 - i) Chairman (2010) / Secretary (2009) / Treasurer (2006-2007, 2009, 2014) / Committee (2011, 2012), *Cyberia Smart Homes, Cyberjaya Joint Management Body*. (Note: 2006-2008, *Pre-Management Corporation (PMC) committee*) (CSH, 2006-2015).
 - ii) Secretary (2007) / Webmaster (2006-2007) / Committee Member (2006) / Auditor (2005), *IEEE Computer Society (Malaysia Section)* (2005-2007).
 - iii) Asst. Company Commander (2013-) / Platoon Commander (2006-2012), *Regiment 502AW (Askar Wataniah)* (Ministry of Defence Malaysia, 2006-).
 - iv) Committee Member, *Selangor Territorial Army Welfare Association / Persatuan Kebajikan Anggota Sukarela Rejimen 502 Askar Wataniah Selangor* (PERASAS 502, 2010).
 - v) Team Member (MMU) for international *RSA Lab RC5 64-bit cryptography challenge* (1998-2004); and international *CSC cryptography challenge* (1999-2000).

- vi) Director (Lights & Sound for Malaysian Nite '95 and '96) / Committee Member, *Imperial College Malaysian Society (ICMS)* (IC 1995-1997).
- **University-level** (in additional to those already mentioned)
 - i) Senate Member, *University Senate* (MMU, 2010-2011; NILAI U, 2011-2014; APU, 2015-).
 - ii) Chairman, *Student Disciplinary Board* (MMU, 2009; NILAI U, 2013-2014).
 - iii) Chief Floor Warden, *Building Emergency Evacuation Committee* (FOE) (MMU, 2009).
 - iv) Coordinator, *Board of Postgraduate Studies* (2011).
 - v) Coordinator / Advisor / System Administrator, *Faculty of Engineering servers* (MMU, 1998-2006).
 - vi) Advisor, *Reserve Military Elite Club (RMEC)* (MMU, 1998-2008), *Institution of Engineers, Malaysia (IEM) MMU Student branch* (MMU, 2008-2011), *IEEE MMU Student branch* (MMU, 2009-2011), *Engineering Society (EngSoc)* (MMU, 2010-2011).
 - vii) Committee Member, *Management (Operations) Meeting, Senior Management Meeting, Coordination & Implementation Meeting*, *Academic Heads of Department* (NILAI U, 2011-2014).
 - viii) Committee Member, *Deans Council, Academic Development Committee, University Think-Tank Task Force, Judgment Committee* (MMU, 2008-2011, APU, 2015-).
 - ix) Committee Member, *Professorship Selection Committee* (NILAI U, 2014; APU, 2015-).
 - x) Committee Member, Open Source task force, *IT Council* (MMU, 2003).
 - xi) Liaison Officer, *MMU Press* (MMU, 2004), *Faculty of Engineering student affairs* (FOE MMU, 2009).
 - xii) Vice President / Executive Vice President, *Department of Computing Society (DoCSoc)*, Imperial College of Science, Technology & Medicine, United Kingdom (IC, 1995-1997).
 - xiii) *Students' Representative Council* / Secretariat Head (Hostel & Cafeteria) / Project Director of several projects, *Maktab Sains MARA Kuala Lumpur* (MSMKL, 1992-1994).
 - xiv) Experienced in managing:
 - 5 Head of Departments, 2 Managers, 6 Assistant managers, 27 Lab staff, 2 Secretaries, 1 Administrative assistant, 7 Clerks, > 250 academics (MMU & NILAI U & APU, 1998-).
 - 2 faculties (FOE MMU & FEST NILAI U, 2010-); 2 postgraduate institute (IPS MMU, 2011; SoPG APU, 2015-); 3 administrative departments (RMTU MMU, 2005-2008; Incubator Centre, RMC NILAI U, 2011-2014); > 50 Labs & Workshops (MMU & NILAI U, 2002-2014).
- **Faculty-level** (in additional to those already mentioned)
 - i) Chairman, *Faculty Board, Strategic Planning Committee, Lab Management Committee (LMC)* (MMU, 2010-2011; NILAI U, 2011-2014).
 - ii) Chairman, *Student Academic Affairs Committee, MMU Open Day Committee (SAAC)* (FOE MMU, 2009-2011).
 - iii) Lab Supervisor, *Project Labs 1, 2 & 3, Faculty of Engineering* (FOE MMU, 2002-2009).
 - iv) Committee Member, *Business Unit, Purchase Evaluation Committee, Self Assessment Committee* (FOE MMU, 2008-2009).

RESEARCH LEADERSHIP:

Have had the experience in planning, procuring funding, managing manpower & resources, leading, undertaking research and development, documenting, presenting and publishing in many projects, including the following:

- Chairman, *Research & Development Committee* (FOE MMU, 2010-2011).
- Deputy Chairman, *Centre for Image Processing and Telemedicine* (CIPTM MMU, 2004-2008).
- Secretary / Coordinator, *Centre for Multimedia Communications* (CMMC MMU, 1999-2001).
- Group Leader, *Image & Video Processing (IVP) Special Interest Group (SIG), Centre for Multimedia Security & Signal Processing* (CMSSP MMU, 2009-2011).
- **Project Leader**
 - i) "Development of an Automated Optical Coherence Tomography Detection System for Retinal Structure Abnormalities" (RM 90,000 for Ph.D. GRA, MMU, 2010-2013).
 - ii) "Development of An Improved Optical Coherence Tomography Automated Disease Detection System" (RM 16,000 MMU Seed Fund, 2010).
 - iii) "Design and Performance Analysis of Optical Coherence Tomography Automated Disease Detection in Ophthalmology" (RM 17,000 MMU Seed Fund, 2009).
 - iv) "Multi-Touch Image Analysis and Object Recognition" (RM 50,400 for Masters GRA, MMU, 2009-2010).
 - v) "Multi-Disorder Detection via Automated Analysis of Magnetic Resonance Imaging Protocols" (RM 50,400 for Masters GRA, MMU, 2009-2010).

- vi) *"Improved Biliary Detection and Diagnosis through Multiresolution Analysis (I-BDeDiMA)"* (RM 87,000, Brain Gain Malaysia grant under MOSTI and Academy of Sciences, Malaysia, 2008).
- vii) *"Image Processing and Computer Vision, Multimedia Processing & Machine Learning Approach for Image Processing"* (KRW 24,000,000, Brain Korea21 grant under Ministry of Human Resource, Korea & Soongsil University, Korea, 2007-2008).
- viii) *"Computer Aided Medical Image Analysis for Intra-operative Low-Field MRI in Neurosurgery"* (RM 119,000 Science Fund grant under MOSTI, Malaysia, 2007-2009).
- ix) *"Computer Aided Medical Image Diagnostic System for Liver Diseases"* (RM 109,400 IRPA grant under Ministry of Science, Technology & Innovation - MOSTI, Malaysia, 2004-2007).
- x) *"Automated Biliary Tree Analysis using MRCP"* (MMU-Hospital Selayang, 2001-2006).
- xi) *"Development of New Lossy & Lossless Algorithms for Data Compression"* (MMU, 1998-2002).

- **Researcher**

- i) *"Automated Diagnosis and Prognosis of Chronic Wounds for e-Health Applications"* (RM 194,600 Science Fund grant under MOSTI, Malaysia, 2017-2019).
- ii) *"Design and Development of Multicast Key Management and Data Delivery Method over Wireless IPv6 Networks - An Empirical Implementation"* (RM 15,000, NILAI U Internal Research Grant, 2013-2014).
- iii) *"Design and Development of New Natural User Interface Module and Cost Effective Camera-based Multi-touch Tabletop to Enhance Teaching and Learning in Institution of Higher Learning"* (RM 40,000 TM R&D Grant, 2010-2012).
- iv) *"Design & Development of Technology-enhanced Multi-touch Tabletop Home Controlling System"* (RM 59,350 Penang ICT Chair Research Grant, 2010).
- v) *"Design & Development of Content Based Medical Imaging Retrieval System"* (RM 90,000 for Ph.D. GRA, MMU, 2010-2012).
- vi) *"Development of Automated Decision Support System for Diabetic Retinopathy Disease"* (RM 101,500 ScienceFund grant, MOSTI, 2006-2008).
- vii) *"Development of Content-And-Semantics-Based Image Retrieval System for Medical Applications"* (RM 87,250 ScienceFund grant, MOSTI, 2006-2008).
- viii) *"Design of a Setup For 3D Ultrasound Using Visual Probe Tracking"* (2002-2006).
- ix) *"Optimisation Of Digital Manipulations of Medical Images" / "Digitisation, Lossy Compression and Visualisation in Cost-Effective Telehealth Environment"* (2002-2004).
- x) *"Performance Simulations for TINA Networks"* (USD 40,000 TINA Consortium grant, 2001-2004).
- xi) *"Intelligent Systems in Medical Image Analysis and Their Impact on Image Compression in Telemedicine"* (2001-2003).
- xii) *"Networked Multimedia Education System"* (RM 15 million Japanese International Cooperation Agency JICA, 2000-2008).

EVENT ORGANISER:

Have assisted in organising many events. The more prominent roles undertaken:

- **International**

- i) International Advisory Panel, *National Conference on Emerging Trends & Transformations in Engineering & Technology*, Chennai, India (NC2(ET), 2017)
- ii) International Advisory Panel, *International Conference on Computer, Communication and Signal Processing (ICCCSP 2016)*
- iii) International Advisory Panel, *International Conference on Engineering and Scientific Innovations (ICESI 2015)*.
- iv) Advisory Committee Panel, *International Conference on Biosignal Analysis, Processing and System (ICBAPS 2015)*.
- v) General Chair (2013), General Co-chair (2017), Finance Chair (2011), Local Arrangements Chair (2009), Publicity & Website Chair (2015), Session Chair (2009-), *IEEE International Conference on Signal and Image Processing Applications (IEEE ICSIPA, 2009-2017)*.
- vi) General Chair (2017), Organising Committee (2010-2016), *Symposium on Image Processing, Image Analysis and Real-Time Imaging (IPIARTI, 2010-2017)*.
- vii) General Co-chair, *IEEE Student Conference of Research and Development (IEEE SCORd, 2011)*.
- viii) Publicity & Website Chair, *IEEE Signal Processing Society Seasonal School (Winter School, 2016)*.
- ix) Local Arrangements Chair, Session Chair, *IEEE International Conference on Industrial Engineering and Engineering Management (IEEM, 2014)*.

- x) Local Organising Chairman (2001), Technical Committee coordinator (2007), Webmaster (2000-2001), Local Organisation (2004-2006), Session Chair (2004), Reviewer (2006-2007), *MMU International Symposium on Information & Communications Technologies* (M²USIC, 2001-2007).
- xi) Technical Program Committee Co-Chair, *International Conference on Information Networking 2011* (ICOIN 2011).
- xii) Local Organisation, *Asia Pacific Wireless Broadband Forum* (AP-WBF, 2005-2006).
- xiii) Local Organisation & Session Chair, *IEEE Malaysia International Conference on Communications* (MICC-LiSLO-ISCE, 2001).
- xiv) Technical Committee, *3rd Asia Pacific Telecommunity Telemedicine Workshop 2005* (APT, 2005).
- xv) Webmaster, *Telecommunications Information Networking Architecture* (TINA, 2002).
- xvi) Organising Committee, *Symposium on Symposium on Acoustics, Speech and Signal Processing* (SASSP, 2013-2017).

- **Local**

- i) Chairman, *Big Data Analytics Seminar 2016* for the APU Data Science Week 2016 and Big Data Week Asia 2016 (DSW, 2016).
- ii) Steering Committee & co-organiser, *IEEE Conference on Innovative Technologies in Intelligent Systems & Industrial Applications & Exhibition* (CITISIA, 2008).
- iii) Local Organisation & Session Chair, *Real-time Technology and Applications Symposium* (RENTAS, 2006).
- iv) Organising Committee, *Professional Development Workshop Series* (PDWS, 2016).
- v) Co-organiser, *MMU-TechSource "The Ultimate Computing Environment for Technical Education" Seminar & Exhibition* (2000).
- vi) Co-organiser, *MMU-Ministry of Defense Exhibition* and Recruitment drive at MMU (1998-2004).

COLLABORATION:

Working with collaborative partners has enriched my experience and skills in communication with various levels, critical thinking, practical & timely development, knowledge, troubleshooting and adapting to various environments. Some notable collaborative roles include:

- **International**

- i) Leader / Initiator for Memoranda of Agreement (MOA) for various research, staff & student exchange and teaching & learning collaborations between APU and:
 - Krabi Technical College, Krabi, Thailand (2017-2019)
 - Anil Neerukonda Institute of Technology and Sciences, Visakhapatnam, India (2017-2019)
 - Vels University, Chennai, India (2016-2018)
 - Amity University, Noida (New Delhi), India (2016-2018)
 - RMIT Vietnam, Vietnam (2016-2018)
 - QuestionPro, USA (2016-2018)
 - Villa College, Male, Republic of Maldives (2015-2017)
 - Telekom Malaysia (TM) (2016-2017)
 - Immanuel Arasar JJ College of Engineering, Kanyakumari, India (2015-2017)
 - SAS Institute, Malaysia (2015-2016)
- ii) Leader for collaboration with the *Media Arts, Graphics and Interactive Content (MAGIC)* Lab and *Human-Centered Interface (HCI)* Lab at Soongsil University (Korea, 2008-2009).
- iii) Coordination with *Staffordshire University* (UK), *Oxford Brookes University* (UK), *Kingston University London* (UK), *University of West England* (UWE), *Sheffield Hallam University* (UK), *Birmingham City University* (UK), *Manchester Metropolitan University* (UK), *Carlow Institute of Technology* (Ireland), *California Baptist University* (USA), *University of San Carlos* (Philippines) (NILAI U, 2011-).
- iv) Representative to *1st German-Malaysia-Indonesia Academic & Cultural Workshop* (2000), *MMU-PTIT (Vietnam)* (2000), *MMU-Motorola University* (2001), *MMU-JICA Sri Lanka* (2005), *MMU-Maharakham University (Thailand)* (2007) collaboration initiatives (MMU, 2000-2007).

- **Local**

- i) Leader for Knowledge Technology collaboration initiative with MIMOS (MMU, 2006).
- ii) Leader and collaborator of several medical research projects with *Hospital Selayang* (2001-2007), *Hospital Putrajaya* (2006-2010) and the *International Specialist Eye Centre* (ISEC, 2009-2011).
- iii) Leader for MMU collaborations with *Macromedia / RQNet / Intranesis Communications* (2000-2007), *Infortech MSC* (2000-2001) and River Basin project with *KTA Tenaga* (2005).

- iv) Faculty Champion for *External Competitions* (FOE MMU, 2006-2007).
- v) Representative to MMU-*Philips Malaysia* (2001), MMU-*Motorola University* (2001), MMU-*Daya Dynamics* (2001), MMU-MIMOS (2007) collaboration initiatives (MMU, 2001-2007).

TEACHING:

The primary role of an academic is teaching, but this comes in many facets, ranging from direct teaching, evaluation of 'teachers', planning and implementation of syllabus and course structures, to policy making at the various levels:

- **Courses Taught** – Lecturer / Coordinator / Moderator / Examiner / Tutor / Lab Instructor for Postgraduate, Undergraduate and Diploma levels:

APU (2015-)

- Research supervision (Masters/PhD)
- MSc Dissertation (Masters)
- Engineering Software & Applications
- Further Artificial Intelligence
- FYP Project 1 & 2

- Operating Systems
- Engineer & Society
- Object Oriented Programming
- Computer & Engineer
- Communication Devices
- FYP Project 1 & 2

NILAI U (2011-2014)

- Fundamentals of Communication Theory
- Energy Management
- Understanding Engineering
- Industrial Engineering & Management

SSU, Korea (2008)

- Special Topics in Computer Vision (Masters/PhD)
- Data Compression (Masters/PhD)
- Programming 1 & Lab
- Linear Algebra

MMU (2002-2017)

- Research Methodology (Masters, PhD)
- Compiler & Translator
- Software Engineering
- Database Systems

UniKL-MFI (2004)

- Data Networking & Telecommunications

- **Short Courses** – designed and instructed in:

- i) Web Design for Army (2000), IEE MMU Student Chapter (2003), Secondary school students (2002).
- ii) PowerPoint in Teaching for school teachers (2002).
- iii) Agile Technologies for industry (2006).
- iv) Data Compression for industry (2009).

- **Supervision**

- i) 10 PhD, 6 Masters, 40 undergraduate project students (2001-).
- ii) 9 Research Officers, 2 GRAs, > 25 researchers (CIPTM & CMMSP MMU, 2000-2014; NILAI).

- **Examination & Accreditation**

- i) Chairman, Examination Board (FEST NILAI U, 2011-).
- ii) Auditor, Pre-accreditation Audit for Engineering Programmes (FOE MMU, 2010).
- iii) Committee member, Examination Rules and Regulations Committee, Postgraduate English Interview Committee, Research & Innovation Committee (FOE MMU, 2006-2010).
- iv) Faculty expert, evaluation panel of postgraduate (PhD and MEngSc) proposal defence and work completion seminars (FOE MMU, 2004-2013).
- v) Been involved and coordinated accreditation visits by the Engineering Accreditation Council (EAC) and Malaysian Qualifications Agency (MQA) at the faculty and university levels for various programmes (2006-).

- **Programme Development**

- i) Design new programmes, Bachelor of Technology degree programme (FOE MMU, 2009), Certificate in Automotive Sales (NILAI U, 2013), Diploma in Automotive Engineering (NILAI U, 2013-2014), Masters of Engineering Science (NILAI U, 2013-2014), MSc. Biotechnology (NILAI U, 2013-2014), PhD. Engineering (NILAI U 2013-2014), MSc in Data Science and Business Analytics (APU, 2015), MSc in Digital Security and Forensics (APU, 2015), PhD in Engineering (APU, 2015), MPhil in Engineering (APU, 2015).
- ii) Outcome based Learning syllabus revision committee member for Engineer & Society, Operating Systems and Software Engineering (FOE MMU, 2004-2005); Project 1 & 2, Energy Management, Understanding Engineering and Industrial Engineering Management (2012-2014).

- iii) Academic & Corporate Planning committee (FOE MMU, 2006-2010).
- iv) Educational Innovation Committee, for university-wide *e-learning policy* setting (MMU, 2007-2010).
- v) University Teaching Observer, evaluate teaching performance of new staff (MMU, 2004-2008).
- **Intake Assessment**
 - i) Career Counsellor / Advisor, B.M.M. (Hons) Computer & Digital Art students (FOE MMU, 2007).
 - ii) Credit Transfer committee (FOE MMU, 2004-2010).
 - iii) Evaluation Committee, *computer engineering* degree intake of Diploma holders (MMU, 2006-2011).
 - iv) Intensive Research Proposal Writing Workshop 1/2009 – facilitator (MMU, 2009).

KEYNOTE SPEAKER / INVITED SPEAKER / GUEST LECTURE:

At international and local platforms including:

- Guest of Honour & Keynote Speaker of the International Conference on Smart Computing & Informatics (SCI 2017), Visakhapatnam, India (2017).
- Keynote Speaker at the International Conference of Contemporary Topics in Power Engineering and Aiding Technologies (ICCPEAT 2017), Pondicherry, India (2017).
- Keynote Speaker at the 7th International Conference on Cloud System and Big Data Engineering (CONFLUENCE 2017), Noida, New Delhi, India (2017).
- Chief Guest & Keynote Speaker at the International Conference on Recent Innovations in Science Engineering and Technology (ICRISET'16 & ICRISET'17), Kanyakumari, India (2016-2017).
- Keynote Speaker at the International Conference on Emerging Trends in Engineering Research (ICETER'16), Chennai, India (2016).
- Guest of Honour & Keynote Speaker at the CONFLUENCE 2016: Global Technology, Innovation & Entrepreneurship Summit - 6th International Conference on Cloud System and Big Data Engineering, Noida, India (2016).
- Keynote Speaker at the 2015 IEEE Student Conference on Research and Development (IEEE SCORED 2015), Kuala Lumpur, Malaysia (2015).
- Chief Guest & Keynote Speaker at the 4th International Conference on Computing and Communication Technology 2015 (ICCCT15), Kanyakumari, India (2015).
- Invited Speaker (Tutorial) at the IEEE Signal Processing Society Winter School 2016/2017 on Recent Advances in Biomedical Imaging, Kuala Lumpur, Malaysia (2016).
- Invited Speaker at the Image Processing, Image Analysis and Real-Time Imaging (IPIARTI) / Symposium of Acoustic, Speech and Signal Processing (SASSP), University Malaysia Perlis (UniMAP) (IEEE, 2014).
- Guest lectures on Data Compression, Universiti Tenaga Nasional, Malaysia ((UNITEN, 2011, 2013, 2014, 2016).
- Invited Speaker at the Seminar on Advances in Biomedical Engineering, AIMST University, Kedah, Malaysia (AIMST, 2010).
- Invited Speaker at the National Biotechnology Seminar (NBS 2010), Kuala Lumpur, Malaysia (MOSTI, 2010).
- Invited Speaker at the International Conference on Computational Intelligence, Man-machine Systems and Cybernetics (CIMMACS '08), Cairo, Egypt (2008).
- Invited Speaker at the International Conference on Signal, Speech and Image Processing (SSIP'06), Lisbon, Portugal (2006).
- Invited Speaker at the International Conference on Automation and Information (ICAI 2003), Tennerife, Spain (2003).
- Invited Speaker at the World Multi-Conference on Circuits, Systems, Communications and Computers (CSCC 2000), Vouliagmeni, Greece (2000).

ACHIEVEMENTS & AWARDS

Professional Body / External Societies

- *Best Chapter Award*, IEEE Signal Processing Society (International) (2011-2012, 2013-2014).
- *Chapter Certification*, IEEE Signal Processing Society (International) (2014-2018).
- *2nd Best Performing Chapter 2013*, awarded to IEEE Signal Processing Society by IEEE Malaysia Section (25/1/2014).
- "Young Achiever" in Legacy of the Pioneers, vol. 2, pp. 173-174 (ISBN: 978-983-43176-2-1) (2009).

- *Certificate of Recognition* – for PhD and academic contributions by KJB (Malaysia) (16/12/2006).
- *Achievers Award* – recognition by KJB (Malaysia) for achievement in vocation / profession (01/08/2004).
- JCS 75th Anniversary Commemorative Award scholar for postgraduate achievement (2000).
- *Runner up* (Falling plates team event) and 5th place (individual prize out of 200 participants), Jugra shooting range (open competition organised by Rej 502 AW) (18/04/2010).
- 2nd prize, Bernam River Rafting Expedition (Regiment Adventure Exercise) (23/08/2003).
- 'Member of the Year' (1991, La Salle Klang cadet and Division 5 KPS), 'Member of the Month' (April 1991, La Salle Klang cadet) and *Assistant Division In-Charge* (1991, ACS cadet), St. John Ambulance Malaysia.

International

- *Silver medal*, "Hand Gesture TV Entertainment and Home Controlling System", 21st International Invention, Innovation and Technology Exhibition (ITEX 2011), Kuala Lumpur (20-21/5/2011).
- *Silver medal*, "Multi-touch Tabletop Home Control and Entertainment System", 21st International Invention, Innovation and Technology Exhibition (ITEX 2010), Kuala Lumpur (14-16/5/2010).
- *Brain Korea 21 (BK21) - Post-Doctoral Researcher*, sponsored by the Ministry of Education and Human Resource Development, Republic of Korea (01/11/2007-29/02/2008).
- Soongsil University (Seoul, Korea) selected as *one of the best schools in information technology* (University News Network, 14/10/2008).
- Listed in most editions of *Marquis Who's Who In The World* (2007-).
- Inclusion by the International Biographical Centre (IBC), Cambridge, England in the international lists:
 - *2000 Outstanding Intellectuals of the 21st Century 2012 / 2013* (25/04/2008, 26/07/2013).
 - *TOP 100 ENGINEERS 2013* (29/03/2013).
 - *LEADING ENGINEERS of the WORLD 2008 / 2013* (30/05/2008, 22/02/2013).
 - *LEADING EDUCATORS of the WORLD 2008* (23/05/2008).
 - *IBC FOREMOST EDUCATORS of the WORLD 2008* (27/06/2008) / *FOREMOST ENGINEERS of the WORLD 2008* (22/08/2008) / *TOP 100 EDUCATORS 2008* (05/09/2008).
 - *21st Century Award for Achievement* (01/08/2008).
- Interview by Tzu Chi for role & support in recycling activities – news article (13/2/07, <http://express.tzuchi.net/express.nsf/95d706eceb2858c48256cef0010db0a/ec1e26250162f97d4825729c00400472?OpenDocument>) & news videoclip of interview on TzuChi TV, Taiwan.
- British Universities North America Club (BUNAC) "Work America" program work & travel experience at Cedar Point, Sandusky, Ohio, USA (1995).

National

- *Pingat Kebaktian (PK) – Medal for Commendable Service*, Malaysia (10/2012).
- *Best Presenter (Operational Plan)*, Senior Officers course 1/2013, Pusat Latihan Askar Wataniah (PUSWATAN) (08/10/2013).
- *Best Military (Penuntut Ketenteraan Terbaik)*, Staff & Tactic Grade 3 course 1/2011, PUSWATAN (22/3/2011).
- *Best Academic (Penuntut Akademik Terbaik)*, Potential Officers course 1/2003, PUSWATAN (2003).
- *Brain Gain Malaysia - International Fellowship & Post-Doctoral programme Scientist*, sponsored by the Academy of Sciences, Malaysia (ASM), and Ministry of Science, Technology and Innovation, Malaysia (MOSTI) (15/04 – 15/12/2008).
- Malaysian Book of Records qualifier for "Largest Backward Walk" event (11/03/2001) and "First Video Conferencing Event on Mount Kinabalu" (16/09/2002).
- Top 200 Executives of Telekom Malaysia group shortlist, achieved score of 80% for Testing for Selection & Training evaluation and qualifier for the Senior Manager's Assessment Centre (2001).
- Telekom Malaysia scholar for A-Levels and overseas undergraduate studies (UK) (1992-1997).

Institution

- Contributed to Asia Pacific University of Technology & Innovation improving its star rating in the Malaysia Research Assessment (MyRA) in 2016/2017.
- Contributed to Nilai University attaining full university status and Setara 5 ranking in 2012.
- Contributed to Multimedia University's performance and its achievement in local and international awards such as the *2007 Outstanding Engineering Achievement Award* from The Institution of Engineers Malaysia, the *2007 ASEAN Federation of Engineering Outstanding Engineering Achievement Award* and being ranked top private university in Malaysia in the *Top 200 Asian Universities 2009* by QS Quacquarelli Symonds Ltd (compilers of Times Higher Education).

- *Best Booth Award*, MMU Open Day (Cyberjaya) (21/03/2010).
- Multimedia University Best Staff Award (Academic) nominee (2000-2001, 2009).
- *VIP* for Indian Cultural Society (ICS, MMU) events, including the signatory to the UNESCO-recognised cultural performance event (18/8/2007).
- Teaching evaluations > 4.0 (80%) achieved in most semesters (MMU, 1998-2011; NILAI U, 2011-).
- Interview by MMU Alumni on Research Highlight "Computer Aided Medical Image Diagnostic System For Liver Disease" (2005, <http://alumni.mmu.edu.my/Alumni/uploads/loges.htm>).
- Course storyboard selected as sample for Multimedia Learning System (MMLS) at MMU (2003).
- MMU Commendation: Courses Online web Master (1998-2002), Performance appraisal (commendable service / Outstanding) (1999-2008), Courses Online, Teaching Achievement (1998, 2002).
- Best Group prize for work on the formal specification language (Z) and Latex (1997).
- MSMKL High Achievers Award for GCE A-Levels (1994).
- Set up the Computer Club of MARA Science College, Kuala Lumpur (MSMKL) (1992).

PROFESSIONAL MEMBERSHIP

- *Associate ASEAN Engineer*, AFEO Governing Body, Phnom Penh, Cambodia (AAE 2975, 2012-).
- *Charter Member*, Asia Life Science Council (2009-2011) and Science Advisory Board (2009-2011).
- *Corporate Member*, Malaysian Invention and Design Society (MINDS) (1999-2011).
- *Council Member*, IT Professionals Skills Standards Council of Malaysia (2005).
- *Senior Member*, Institute of Electrical and Electronics Engineers, USA (IEEE) (40315185, M'98, SM'04-).
- *Member / Registered*, National Council of Professors (*Majlis Professor Negara*), Malaysia (2016-).
- *Vice Chair* (2011), *Secretary* (2014), *Treasurer* (2010, 2012, 2013) and *Committee Member* (2009), IEEE Signal Processing Society (Malaysia Section).
- *Committee Member*, IEEE Technology Management Council (Malaysia) (IEEE TMC, 2014).
- *Technical Working Group Member*, Internet of Things (IoT), Prime Minister's Department, Malaysia (MIMOS, 2014).
- *Graduate Member*, Institution of Engineers, Malaysia (Grad.I.E.M.) (1998-2015).
- *Graduate Engineer* (Computer), Board of Engineers, Malaysia (BEM) (1998-).
- *Associate*, City and Guilds Institutions, United Kingdom (ACGI) (1997-).
- *Scientific Committee Member*, World Scientific & Engineering Academy and Society (WSEAS) (2000-).

RESEARCH INTERESTS & PUBLICATION SUMMARY

Expertise: main research interests are in Medical image processing, Artificial neural networks, Data compression, Web content development and Compiler design.

PUBLICATIONS:

- Books – 4 (2 text books, 1 research monograph, 1 self-development book),
- Chapters – 8 (international);
- Journals – 63 manuscripts (almost all listed in international citation indices);
- Conferences – 58 manuscripts (almost all international).
- Citations – 1651, h-index = 17, i10-index = 35 (source: Google scholar 07 March 2017).

REVIEWER:

Of technical articles by invitation in international and local books, journals and conferences:

- **Book** - Web Services Security & E-Business (published by IDL, 2005).
- **Journals**
 - i) Biomedical Imaging and Intervention Journal (BIIJ, 2009-2014).
 - ii) Biomedical Statistics and Informatics (SciencePG, 2016-).
 - iii) Clinical Anatomy (Wiley, 2010-2014).
 - iv) Computers in Biology & Medicine (Elsevier, 2009-2014).
 - v) Institution of Engineers Malaysia (IEM) Journal (2001-2007).
 - vi) International Journal of Computer Applications in Technology (2008-2014).
 - vii) International Journal of Computer Assisted Radiology and Surgery (2013-2014).
 - viii) International Journal of Electronics (2013-2014).

- ix) INTI Journal (2004).
- x) Journal of Biomedical Graphics and Computing (2012-2014).
- xi) Journal of Digital Imaging (Springer, 2009-2014).
- xii) Journal of Medical Systems (Springer, 2007-2015).
- xiii) Multimedia Cyberscape Journal (2004-2009).
- xiv) Multimedia Tools and Applications (Springer, 2009-2011).
- xv) Neural Computing and Applications (NCAA, 2016-).
- xvi) Recent Patents in Signal Processing (BSP, 2009-2015).
- xvii) Signal Processing (Elsevier, 2010-2014).
- xviii) WSEAS Transactions on Computer (2007-2014).
- xix) WSEAS Transactions on Signal Processing (2007-2014).

• Conferences

- | | |
|---------------------------------------|--|
| i) IASTED CSN 2002 (Spain). | xi) IEEE TENSYP 2014 (Malaysia). |
| ii) ICACC 2012/2013 (USA). | xii) IIS CCCT 2003-2005/2009 (USA). |
| iii) ICE2T 2014 (Malaysia). | xiii) IPIARTI / SASSP 2013-2014 (Malaysia). |
| iv) ICECCS 2012 (France). | xiv) M ² USIC 2002-2007 (Malaysia). |
| v) ICIT 2014 (UAE). | xv) SCI 2003 (USA). |
| vi) ICUT 2009 (Japan). | xvi) WSEAS ACMOS 2007 (Turkey). |
| vii) IEEE CITISIA 2008 (Malaysia). | xvii) WSEAS CSCC 2004 (Greece). |
| viii) IEEE ICME 2004 (USA). | xviii) WSEAS MACTEE 2004 (Greece). |
| ix) IEEE ICSIPA 2009-2015 (Malaysia). | xix) WSEAS NN 2007 (Canada). |
| x) IEEE TENCON 2013 (Malaysia); | xx) WSEAS TELE-INFO 2007 (USA). |

EDITORIAL BOARD MEMBER:

- i) The Scientific Pages of Information Science (2016-).
- ii) Recent Patents in Signal Processing (2009-2016);
- iii) World Journal of Radiology (2009-);
- iv) Journal of Communication Technology and Human Behaviors (2012-);

ADDITIONAL COMPETENCIES

Computer Literacy:

- Functional programming skills in C, HTML, MATLAB, IDL, SQL, Unix / Linux shell scripts, Perl, CGI, PHP, Miranda; and experienced with other languages such as Modula-2, Prolog, M68000, Visual Basic macros, SmallTalk, etc.
- Setting up and maintenance of servers (SuSE, RedHat, Apache, Xitami, IIS) on a variety of platforms (Windows 98/2000/XP/Vista, Linux, Unix).
- Participant in the British Computer Society programming competition (UK, 1997).

Working attitude:

- Perfect attendance, punctual in meeting deadlines, responsible.
- Good working relationship and teamwork with colleagues of various levels.
- Committed, detailed and quality oriented.
- Motivated by the satisfaction gained by contributing in helping improve people and organisations.

Extra curricular:

- Officer in the Malaysian Voluntary Forces.
- Exco in an international professional society.
- Active in university & student activities.
- Contributor to charitable activities including environmental care.

TRAINING ATTENDED (SELECTED)

LEADERSHIP, MANAGEMENT & STRATEGIC PLANNING:

- Leading and Managing Key Stakeholders, by APU (17-18 Dec 2015).
- Leadership and Entrepreneurship Strategies for University Leaders, by University of Cambridge, United Kingdom, AKEPT and Ministry of Education, Malaysia (16-18 Dec 2013).
- Senior Command course (1/2013), by PUSWATAN & MINDEF (25 Sept – 8 Oct 2013).
- Company Commander course (1/2013), by PUSWATAN & MINDEF (19 June – 2 July 2013).

- TM's Code of Business Ethics, by Telekom Malaysia (Sept 2011).
- ISO 9001:2008 Internal Audit Training, by JcRam Consultants (4-5 April 2011).
- Staff & Tactics Grade 3 course (1/2011), by PUSWATAN & MINDEF (21 Feb – 22 March 2011).
- Platoon Commander course (1/2010), by PUSWATAN & MINDEF (30 June – 29 July 2010).
- Effective Leadership and Communication Skills, by Melcom Network & Services (28-29 April 2005).
- Potential Officer course (1/2003), by PUSWATAN & MINDEF (21 Jan – 19 Feb 2003).
- Code of Ethics / Regulations, by Board of Engineers, Malaysia (BEM) (21-22 Oct 1998).
- Engineering Management Practice, by Board of Engineers, Malaysia (BEM) (14-15 Oct 1998).
- Management Trainee Programme, by Telekom Malaysia (1-30 Aug 1997).
- Young Executive Development Program, by Hitec Management Technology Research Institute, Malaysia (25-27 Aug 1997).
- Executive Professional Image Program, by Mashal Sdn. Bhd. (15-16 Aug 1997).

EDUCATION, RESEARCH & TECHNOLOGY:

- Blended Learning & Flipped Classroom, by Prof. Dato' Mohammed Amin Embi (UKM) (3 Dec 2016).
- Data Lakes for Big Data, by EMC² (online) (May-June 2015).
- MYGRANTS Online Project Progress Reporting, by Ministry of Education (MOE) (8 Sept 2014).
- COPPA Document Preparation, by Malaysian Qualifications Agency (MQA) (25 June 2014).
- Active Learning, by Prof. Dr. Rod Foist (California Baptist University, USA) (20 June 2014).
- Internet of Things (IoT), by MIMOS (speakers from well-known industry players) (14-15 May 2014).
- Outcome-based Education (OBE) Awareness Programme: Issues & Challenges, by Prof. Ir. Dr. Ramesh Singh (UM) (25 Nov 2013).
- PLC & HMI (SIMATICS S7-1200 Micro PLC and TIA Portal), by Siemens (11 Sept 2012).
- IC Citizen Digital Etiquette, by Prestariang (13-14 Sept 2012).
- Project-Oriented Problem-Based Learning (POPBL), by AKEPT and Ministry of Education, Malaysia (27-28 April 2012).
- Developing Applications for the Java EE Platform, by Sun Microsystems (14-17 & 21 December 2009).
- Train the Trainer, by Multimedia University (6-7 Oct 2009).
- Multimedia Courseware Development Technology, by JICA, Japan (18 Feb – 11 March 2005).

HEALTH & SAFETY:

- Recognizing Symptoms of Common Psychological Disorder among College Students, by Dr. Diana Lea Baranovich (15 August 2014).
- Health, Safety and Environment (HSE), by ART (24-25 March 2014).
- Health Talks on Prostate Cancer, Liver, Lungs, Heart (Smoking) & Thalassemia, by Multimedia University (9 June 2010).
- Safety & Health at Work, by Board of Engineers, Malaysia (BEM) (7-8 Oct 1998).
- Cardio Pulmonary Resuscitation (CPR), by St. John Ambulance, Malaysia (28 May 1991).

SKILLS:

- Essentials of Management Accounting Research Methodology, by Chartered Institute of Management Accountants (10 April 2014).
- Annual Camp at 4 RAMD (Kem Gurkha Malaya), by Rej 502(AW) (1-15 Nov 2010).
- Support Weapons course (1/2007), by PUSWATAN & MINDEF (8 May – 6 June 2007).
- In-House Training Programme, by Telekom Malaysia (12-30 Aug 1996).
- Overseas Study Motivation course, by Excel Training & Consultancy, Malaysia (22 July 1996).
- Motivation & Success Studies Strategies Programme, by NLP Consultancy (30 Aug – 1 Sept 1993).
- Intensive English, by Bangsar Language Centre, Malaysia (23 Nov – 5 Dec 1992).
- Intensive English, by MARA Science College, Kuala Lumpur (3 Aug – 26 Sept 1992).
- Outward Bound, by Outward Bound School, Lumut (17-26 June 1992).
- Advanced Level Study Skills, by British Council, Kuala Lumpur (1 June – 16 July 1992).
- Swimming (Advanced), by Silver Lagoon Fitness Centre, Klang (7 Jan 1990).

BOOKS / MONOGRAPHS:

1. Hairul Azhar b. Abdul Rashid, **R. Logeswaran a/l N. Rajasvaran**, Pau Kiu Nai and Sim Hock Kheng, Engineers in Society, McGraw-Hill : Malaysia, 2004 (ISBN: 9832679958)
2. **R. Logeswaran**, Hairul Azhar, Pau Kiu Nai and Sim Hock Kheng, Engineers in Society, 2nd edition, McGraw-Hill : Malaysia, 2006 (ISBN: 983-3219-36-5)
3. **Rajasvaran Logeswaran**, Predictive Artificial Neural Networks - A Block-adaptive Scheme for Lossless Telemetry Data Compression, Lambert Academic Publishing : Germany, 2010 (ISBN: 978-3-8383-3744-9).
4. Nelson David Bassey, **Rajasvaran Logeswaran** and Sarah Michel, The New Generation of Leadership – Transforming Ordinary Young People Into Outstanding and Growing Leaders, Westbow Press : USA, 2013 (ISBN: 9781490803333).

BOOK CHAPTERS:

1. **R.Logeswaran**, "Application of Generalised Regression Neural Networks in Lossless Data Compression", in Systems and Control : Theory and Applications, World Scientific and Engineering Society (WSES) Press : Greece, 2000, pp. 269-274 (N.E.Mastorakis ed., ISBN : 960-8052-11-4)
2. **R.Logeswaran**, "Enhancement Of Lempel-Ziv Coding Using A Predictive Pre-Processor Scheme for Data Compression", in Advances in Information Science and Soft Computing, WSEAS Press : Greece, 2002, pp. 238-243 (ISBN: 960 8052 602)
3. **Rajasvaran Logeswaran**, "Compression of Medical Images for Teleradiology", in Teleradiology, Springer : Berlin Heidelberg, August 2008, pp. 21-31 (ISBN: 978-3-540-78870-6 (*Print*) 978-3-540-78871-3 (*Online*), Kumar & Krupinski (eds.), http://dx.doi.org/10.1007/978-3-540-78871-3_3).
4. **Rajasvaran Logeswaran**, "Neural Networks in Medicine – Improving Difficult Automated Diagnosis of Cancer in the Bile Ducts", in Nature-Inspired Informatics for Intelligent Applications and Knowledge Discovery: Implications in Business, Science and Engineering, IGI Global : USA, July 2009, pp. 144-165, (ISBN: 978-1-60566-705-8, Chiong (ed.)).
5. **Rajasvaran Logeswaran**, "3D Medical Imaging Applications - Reconstruction and Automatic Analysis" in 3D Imaging: Theory, Technology and Applications, NOVA Science : USA, 2010 (ISBN: 978-1-60876-885-1).
6. **Rajasvaran Logeswaran**, "Robustness Verification of Artificial Neural Network Predictors in a Purpose-Built Data Compression Scheme" in Artificial Neural Networks, NOVA Science : USA, Kwon (Ed.), 2010 (ISBN: 978-1-61761-553-5), Chapter 24.
7. **Rajasvaran Logeswaran**, "Simulating Load Balancing in a Distributed Service Architecture" in Horizons in Computer Science Research, Vol. 5, NOVA Science : USA, Clary (Ed.), 2011 (ISBN: 978-1-61324-789-1), Chapter 3.
8. **Rajasvaran Logeswaran**, "Robustness Verification of Artificial Neural Network Predictors in a Purpose-Built Data Compression Scheme" in Focus on Artificial Neural Networks, NOVA Science : USA, Flores (Ed.), 2011 (ISBN: 978-1-61324-285-8), Chapter 13.

JOURNALS:

1. **R.Logeswaran** and C.Eswaran, "Effect of Encoders on the Performance of Lossless Two-stage Data Compression Schemes", IEE Electronics Letters, vol. 35, no. 18, 1999, pp. 1515-1516.
2. **R.Logeswaran** and C.Eswaran, "Performance Survey of Several Lossless Compression Algorithms for Telemetry Application", International Journal of Computers and Applications, vol. 23, no. 1, 2001, pp. 1-9.
3. **R.Logeswaran** and C.Eswaran, "Radial Basis Neural Network for Lossless Data Compression", International Journal of Computers and Applications, vol. 24, no. 1, 2002, pp. 14-19.
4. **R.Logeswaran**, "A Prediction-Based Neural Network Scheme for Lossless Data Compression", IEEE Transactions on Systems, Man, and Cybernetics - Part C: Applications and Reviews, vol. 32, no. 4, 2002, pp. 358-365.
5. **Rajasvaran Logeswaran** and Aziah Ali, "Proposal for an Automated 3D Biliary Tree Hierarchical Structure Analysis System using 2D MRCP Image Series", WSEAS Transactions on Biology and Biomedicine, vol. 1, no. 1, 2004, pp. 40-46 (*Invited paper*).
6. Miew Keen Choong, **Rajasvaran Logeswaran**, Zaharah Musa and Aziah Ali, "Comparison of Monitors for Digital Diagnosis of Medical Images", WSEAS Transactions on Biology and Biomedicine, vol. 1, no. 1, 2004, pp. 47-50 (*Invited paper*).
7. Aziah Ali, **Rajasvaran Logeswaran** and Michel R.M. Bister, "Optimal Camera Calibration for 3D Object Tracking", WSEAS Transactions on Computer, vol. 3, no. 1, 2004, pp. 262-266 (*Invited paper*).

8. Li-Choo Chen, **Rajasvaran Logeswaran** and Aziah Ali, "Improved Load Balancing in Distributed Service Architectures", WSEAS Transactions on Computer, vol. 3, no. 2, 2004, pp. 341-346 (*Invited paper*).
9. **Rajasvaran Logeswaran**, "Fast Two-Stage Lempel-Ziv Lossless Numeric Telemetry Data Compression Using A Neural Network Predictor", Journal of Universal Computer Science, vol. 10, no. 9, 2004, pp. 1199-1211.
10. **Rajasvaran Logeswaran**, "Scale-space Segment Growing For Hierarchical Detection of Biliary Tree Structure", International Journal of Wavelets, Multiresolution and Information Processing, vol. 3, no. 1, 2005, pp. 125-140.
11. **Rajasvaran Logeswaran** and Chikannan Eswaran, "Application of 3D Multiresolution Analysis for Structure Detection in 2D", Multimedia Cyberscape Journal, vol. 3, no. 4, 2005, pp. 30-34 (*Invited paper*).
12. Sheng-Hung Chung and **Rajasvaran Logeswaran**, "Mobile Agents in Mobile Telemedicine - Replication Agent and Snapshot Agent Approach to Overcome Wireless Bandwidth Limitation", Multimedia Cyberscape Journal, vol. 3, no. 4, 2005, pp. 41-45.
13. **Rajasvaran Logeswaran** and Chikannan Eswaran, "Model-based Compression for 3D Medical Images Stored in the DICOM Format", Journal of Medical Systems, vol. 30, no. 2, 2006, pp. 133-138.
14. Miew-Keen Choong, **Rajasvaran Logeswaran** and Michel Bister, "Improving Diagnostic Quality of MR Images Through Controlled Lossy Compression using SPIHT", Journal of Medical Systems, vol. 30, no. 3, 2006, pp. 139-143.
15. **Rajasvaran Logeswaran** and Chikannan Eswaran, "Discontinuous Region Growing Scheme for Preliminary Detection of Tumor in MRCP Images", Journal of Medical Systems, vol. 30, no. 4, 2006, pp. 317-324.
16. **Rajasvaran Logeswaran**, "Neural Networks Aided Stone Detection in Thick Slab MRCP Images", Medical & Biological Engineering & Computing, vol. 44, no. 8, 2006, pp. 711-719.
17. **Rajasvaran Logeswaran**, "Choledochol Cyst Preliminary Detection System for MRCP Images using Neural Networks", WSEAS Transactions on Signal Processing, vol. 2, no. 9, 2006, pp. 1299-1305 (*Invited paper*).
18. **Rajasvaran Logeswaran**, "Fault Tolerant Neural Predictors For Compression of Sensor Telemetry Data", Journal of Universal Computer Science, vol. 12, no. 10, 2006, pp. 1439-1454.
19. Sheng-Hung Chung and **Rajasvaran Logeswaran**, "Neural Networks in Image Processing: A Review of Current Applications", INTI Journal, vol. 2, no. 1, 2006, pp. 582-592 (*Invited paper*).
20. Miew-Keen Choong, **Rajasvaran Logeswaran** and Michel Bister, "Cost-Effective Handling of Digital Medical Images in the Telemedicine Environment", International Journal of Medical Informatics, vol. 76, no. 9, 2007, pp. 646-654.
21. **Rajasvaran Logeswaran** and Chikannan Eswaran, "Stone Detection in MRCP Images using Controlled Region Growing", Computers in Biology and Medicine, vol. 37, no. 8, 2007, pp. 1084-1091.
22. Aziah Ali and **Rajasvaran Logeswaran**, "A Visual Probe Localization and Calibration System for Cost-Effective Computer-Aided 3D Ultrasound", Computers in Biology and Medicine, vol. 37, no. 8, 2007, pp. 1141-1147.
23. Aziah Ali and **Rajasvaran Logeswaran**, "Implementing Cost-effective 3D Ultrasound Using Visual Probe Localization", Journal of Digital Imaging, vol. 20, no. 4, 2007, pp. 352-366.
24. **Rajasvaran Logeswaran**, "A Computer-Aided Multi-Disease Diagnostic System using MRCP", Journal of Digital Imaging, vol. 21, no. 2, 2008, pp. 235-242.
25. M.S.Z. Sarker, W.H. Tan and **R. Logeswaran**, "Morphological based technique for image segmentation", International Journal of Information Technology, vol. 14, no. 1, 2008, pp. 55-80.
26. Md. Shakowat Zaman Sarker, Tan Wooi Haw and **Rajasvaran Logeswaran**, "Development of A Morphological Technique for Segmentation of Anatomical Objects in Abdominal MRI", Imaging Science Journal, vol. 56, no. 5, 2008, pp. 243-253.
27. **Rajasvaran Logeswaran**, "Reconstruction of Biliary Structure in 2D MRCP Images using Multi-Scale Analysis", Computers in Biology and Medicine, vol. 38, no. 3, 2008, pp. 391-400.
28. **Rajasvaran Logeswaran**, Tan Wooi Haw and Md. Shakowat Zaman Sarker, "Liver Isolation in Abdominal MRI", Journal of Medical Systems, vol. 32, no. 4, 2008, pp. 259-268.
29. **Rajasvaran Logeswaran** and Li-Choo Chen, "Node Status Algorithm for Load Balancing in Distributed Service Architectures at Paperless Medical Institutions", Journal of Medical Systems, vol. 32, no. 6, 2008, pp. 453-461.
30. Nur Faiza Ishak, **Rajasvaran Logeswaran** and Wooi-Haw Tan, "Artifact and Noise Stripping on Low-Field Brain MRI", International Journal of Biology and Biomedical Engineering, vol. 2, no. 2, 2008, pp. 59-68, *Online* <http://www.naun.org/journals/bio/bio-21.pdf>, January 2009 (*Invited paper*).
31. **R. Logeswaran**, M.K. Choong and M. Bister, "Diagnostic Quality of X-ray Films Digitised using Conventional Digital Cameras", Imaging Science Journal, vol. 57, no. 1, 2009, pp. 1-7.
32. **Rajasvaran Logeswaran**, "Customizable Wireless Remote Control for Collaborative Medical Diagnosis and Teaching", Journal of Medical Systems, vol. 33, no. 5, 2009, pp. 389-398.

33. **Rajasvaran Logeswaran**, "Cost Effective Patient Location Monitoring System using Webcams", *Journal of Medical Systems*, vol. 33, no. 5, 2009, pp. 399-407.
34. **Rajasvaran Logeswaran**, "Cholangiocarcinoma - An Automated Preliminary Detection System Using MLP", *Journal of Medical Systems*, vol. 33, no. 6, 2009, pp. 413-421.
35. **Rajasvaran Logeswaran**, "Segment-Growing Hierarchical Model for Bile Duct Detection in MRCP", *Journal of Medical Systems*, vol. 33, no. 6, 2009, pp. 423-433.
36. **Rajasvaran Logeswaran** and Li-Choo Chen, "Load Balancing Algorithms in Distributed Service Architectures for Medical Applications", *International Journal of Healthcare Information Systems and Informatics*, vol. 5, no. 1, 2010, pp. 76-90.
37. **Rajasvaran Logeswaran**, "Magnetic Resonance Cholangiopancreatography Image Enhancement for Automatic Disease Detection", *World Journal of Radiology*, vol. 2, no. 7, 2010, pp. 269-279 (*Invited paper*).
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RESEARCH SUPERVISION

PhD Supervision

No.	Degree	Student	Topic	Grad.	Role
1.	Ph.D. (Engineering)	Sara Moein	Kinetic Gas Molecule Optimisation Neural Network For Classification Of Heart Disorder Electrocardiogram Signals	2013 (MMU)	Supervisor
2.	Ph.D. (Engineering)	Arif Sameh Arif	Lossless and Near Lossless Compression of Pharynx and Esophagus in Fluoroscopy Medical Images	2016 (MMU)	Supervisor
3.	Ph.D. (IT)	Alaa al-abayechi	<i>Automated Skin Melanoma Detection and Classification</i>	2016 (MMU)	Supervisor
4.	Ph.D. (Engineering)	Soon Nyeen Cheong	Design and Development of Natural User Interface Technology-Enhanced Learning Platform	2017 (MMU)	Supervisor
5.	Ph.D. (Technology)	Mohamed Shaafie	Programming for Volatile-Memory-Free Computer Systems Architectures	2017 (APU)	Supervisor
6.	Ph.D. (Engineering)	Wan Siti Halimatul Munirah	Content Based Medical Image Analysis and Retrieval System for Chest X-Rays	2016 (MMU)	Co-supervisor
7.	Ph.D. (IT)	Purwanto	Web-Based Decision Support System for Monitoring in Healthcare Management	2013 (MMU)	Co-supervisor
8.	Ph.D. (Engineering)	Mehdy Farzaneh Kazerouni	Optical Coherence Tomography for Eye Disease Classification	<i>until</i> <i>2012</i> (MMU)	Supervisor
9.	Ph.D. (Engineering)	Aris Marjuni	Image Authentication System Of The MMS Content Using Digital Image Watermarking Techniques	<i>until</i> <i>2012</i> (MMU)	Supervisor
10.	Ph.D. (Engineering)	Seyed Alireza Mohseni	Adaptive control and identification of nonlinear systems using neural networks and fuzzy models	<i>until</i> <i>2011</i> (MMU)	Co-supervisor
11.	Ph.D. (Engineering)	Mohd. Haris Lye Abdullah	Human Detection and Tracking for Visual Surveillance	<i>until</i> <i>2011</i> (MMU)	Co-supervisor

Masters by Research Supervision

No.	Degree	Student	Topic	Grad.	Role
1.	Master of Engineering Science	Miew-Keen Choong	Digitisation, Lossy Compression and Visualisation in Cost-Effective Telehealth Environment	2004 (MMU)	Supervisor
2.	Master of Engineering Science	Aziah ali	Design of a Setup For 3D Ultrasound Using Visual Probe Tracking	2005 (MMU)	Supervisor
3.	Master of Engineering Science	Chung Sheng Hung	Texture-Based Multimode Analysis for Preliminary Diagnosis of Liver Cyst and Fatty Liver using Neural Networks	2006 (MMU)	Supervisor
4.	Master of Engineering Science	Md. Shakawat Zaman Sarker	A Semi-automatic System for the Extraction of Anatomical Objects from Abdominal MRI Images	2007 (MMU)	Co-supervisor
5.	Master of Engineering Science	Wan Siti Halimatul Munirah	Development of Hybrid Content and Text-Based Image Retrieval Systems	2009 (MMU)	Co-supervisor
6.	Master of Engineering Science	Nur Faiza Ishak	Low-field MRI Brain Segmentation	<i>until</i> <i>2011</i> (MMU)	Supervisor
7.	Master of Engineering Science	K. Nityananthan	An Integrated Multimode Based Diagnosis Tool	<i>until</i> <i>2008</i> (MMU)	Supervisor

Masters Dissertation Supervision

No.	Degree	Student	Topic	Grad.	Role
1.	MSc Software Engineering	Beverly Amunga Onyimbo	User Interface Design for Mobile Apps	2016 (APU)	Supervisor
2.	MSc Technology Management	Abdulsamad Mohammed Aminu	Effectiveness of Web Personalisation using Web 3.0	2016 (APU)	Supervisor
3.	MSc in Computer Science	Cheang Wei Loong	Optimising Programming Control Flow Constructs on the Power Consumption of Programs	2017 (APU)	Supervisor
4.	MSc in Computer Science	Aishath Samha	A Conceptual Framework for An Electronic Health Record (HER) System	2017 (APU)	Supervisor
5.	MSc in Computer Science	Khalid Mohammad Saleem		2017 (APU)	Supervisor
6.	MSc in Data Science and Business Analytics	Shangiri Segaran		2017 (APU)	Supervisor
7.	MSc Technology Management	Roni Fahrozi	An Exploratory Study on Generation Y's Technology Led Tourism	2016 (APU)	Co-supervisor
8.	MSc in Computer Science	Bie Tong	Internet of Things based Alarm System and its Impact on People with Hearing Impairment	2017 (APU)	Co-supervisor
9.	MSc in Software Engineering	Chua Kiem Mun	Factors Affecting E-Commerce Adoption in SMEs: An Exploratory Study of Malaysia	2017 (APU)	Co-supervisor

Final Year Project (Undergraduate) Supervision

No.	Degree	Student	Topic	Grad.	Role
1.	B.MM. (Computer & Digital Art)	Azny binti Abdullah	Interactive Graphical User Interface for Identification of Regions of Interest in Medical Image Processing	2002 (MMU)	Supervisor
2.	B.Eng. (Computer)	Ditesh Kumar	Implementation of a Compiler for a Subset of an IDL-like Language	2002 (MMU)	Supervisor
3.	B.Eng. (Computer)	Lee Chern Hsing	Implementation of a Compiler for a Subset of an IDL-like Language	2002 (MMU)	Supervisor
4..	B.MM. (Computer & Digital Art)	Lew Kee Wai	Prediction-based Lossless Data Compression using Artificial Neural Networks	2002 (MMU)	Supervisor
5.	B.Eng. (Computer)	Mohanaraj Gopala Krishnan	Implementation of a Compiler for a Subset of an IDL-like Language	2002 (MMU)	Supervisor
6.	B.Eng. (Multimedia)	Nor Azlina Abdul	Electronic Courseware Tools for Semi-Automated Submission and Grading	2002 (MMU)	Supervisor
7.	B.Eng. (Computer)	Pechin Lo	- Interactive Graphical User Interface for 3D Applications of 2D MRI Medical Images	2002 (MMU)	Supervisor
8.	B.MM. (Computer & Digital Art)	Sabrena Shamsul Baharin	Interactive Graphical User Interface for Identification of the Biliary Tree in MRCP Medical Images	2002 (MMU)	Supervisor
9.	B.Eng. (Multimedia)	Woo Pei Yeng	Prediction-based Lossless Data Compression using Artificial Neural Networks	2002 (MMU)	Supervisor
10.	B.MM. (Computer & Digital Art)	Faizatul Sarah Nordin	Development of User-Friendly Interactive GUI for Image Analysis in IDL	2003 (MMU)	Supervisor
11.	B.Eng. (Multimedia)	Mohaini Mohd. Din	Development of User-Friendly Interactive GUI for Image Analysis in IDL	2003 (MMU)	Supervisor
12.	B.MM. (Computer & Digital Art)	Syairah Anis Amin	Code Optimisation for use in Image Processing	2004 (MMU)	Supervisor
13.	B.Eng. (Computer)	Devendra Mahendran	Content Management System for Webserver	2006 (MMU)	Supervisor
14.	B.Eng. (Electrical)	Ch'ng Su Jin	Multimedia Presenter USB Firmware	2007 (MMU)	Supervisor

15.	B.Eng. (Computer)	Choo Lett Kee	Two-stage Lossless Data compression using Supervised Artificial Neural Networks	2006 (MMU)	Supervisor
16.	B.Eng. (Computer)	Koay Hian Lim	Issues on Server Security on Linux-based Platforms	2006 (MMU)	Supervisor
17.	B.Eng. (Computer)	Leong Jay Shen	Code Optimisation for use in Image Processing	2006 (MMU)	Supervisor
18.	B.Eng. (Computer)	Tan Kong Hooi	Two-stage Lossless Data compression using Unsupervised Artificial Neural Networks	2006 (MMU)	Supervisor
19.	B.Eng. (Computer)	Gary Lim Chee Kiong	Webcam-based 3D Object Recogniser	2007 (MMU)	Supervisor
20.	B.Eng. (Computer)	Heah Hooi Kiang	Electronic Courseware System - Automatic Detection and Evaluation	2007 (MMU)	Supervisor
21.	B.Eng. (Telecomm.)	Yong Zhi Chao	Multimedia Presenter Hardware	2007 (MMU)	Supervisor
22.	B.Eng. (Computer)	Brian Mukasa	Car Radio GUI	2009 (MMU)	Supervisor
23.	B.MM. (Computer & Digital Art)	Mohd Aqmal Mohd Jamil	Webcam-based 3D Object Recognizer	2009 (MMU)	Supervisor
24.	B.Eng. (Multimedia)	Oh Yu Kiat	USB Multimedia Presenter	2009 (MMU)	Supervisor
25.	B.Eng. (Computer)	Ho Hock Sheng	Radio GUI	2009 (MMU)	Supervisor
26.	B.Eng. (Computer)	Tan Li Chye	Development of an Efficient Classroom Scheduling System using Genetic Algorithm	2010 (MMU)	Supervisor
27.	B.Eng. (Computer)	Er Song Wei	Development of an Efficient Classroom Scheduling System - Rule Based	2010 (MMU)	Supervisor
28.	B.Eng. (Computer)	Kaddu Shaban	Employee Database Report Generator	2010 (MMU)	Supervisor
29.	B.Eng. (Computer)	Nur Iffah Ishak	Employee Database Report Generator	2010 (MMU)	Supervisor
30.	B.Eng. (Multimedia)	Thinesh Sinnathambay	Webcam Based 3D Object Recognizer	2011 (MMU)	Supervisor
31.	B.Eng. (Nanotechnology)	Tan Yee Kean	Green Technologies - Solar Charge Controller	2011 (MMU)	Supervisor
32.	B.Eng. (Nanotechnology)	Cheah Jen Tat	Green Technologies - Solar Powered Bus Shelter	2011 (MMU)	Supervisor
33.	B.Eng. (Nanotechnology)	Lee Jih Yee	Green Technologies - Solar Panel System	2011 (MMU)	Supervisor
34.	B.Eng. (Electronics)	Ang Chong Loong	Green Technologies - Harnessing Potential Energy	2011 (MMU)	Supervisor
35.	B.Eng. (Electronics)	Tan Joo Bing	Green Technologies - Harnessing Kinetic Energy	2011 (MMU)	Supervisor
36.	B.Eng. (Electronics)	Yeap Chee Eng	Green Technologies - Harnessing Hydroelectric Energy	2011 (MMU)	Supervisor
37.	B.Eng. (Electronics)	Tan Yin Fung	Green Technologies - Solar Powered IP Camera	2011 (MMU)	Supervisor
38.	B.Eng. (Electronics)	Koh Kim Foong	Green Technologies - Piezoelectric Energy Harvester	2011 (MMU)	Supervisor
39.	B.Eng. (Electronics)	Lim Kheng Hui	Green technologies - Thermoelectric Generator	2011 (MMU)	Supervisor
40.	B.Eng. (Computer)	Boon Lip Kuan	Development of an Efficient Classroom Scheduling System using PSO	2011 (MMU)	Supervisor
41.	B.Eng. (Electronics)	Jansen Sie Eng Thai	Ambient Sound Cancellation System	2011 (MMU)	Supervisor
42.	B.Sc. Software Engineering	Lew Chee Thet	"MajorMe" - University Academic E-learning knowledge-Base and Preparation System	2016 (APU)	Supervisor
43.	B.Sc. IT (Info. Sys. Security)	Lee Kok Eng	Digital Image Steganography	2017 (APU)	Supervisor
44.	B.Sc. Software Engineering	Teh Hock Keong	Customized Location Search Engine System (CLSES) Propagation	2016 (APU)	Co-supervisor
45.	B.Sc. Software Engineering	Chua Pui Ern	E-Recruitment Management System	2016 (APU)	Co-supervisor

POSTGRADUATE RESEARCH EXAMINATION

PhD Examiner

No.	Degree	Student	Topic	Grad.	Role
1.	Ph.D. Computer Science	R. Beena	Dynamic Approaches for Test Case Optimization in Regression Testing	2015 (Bharathiar Uni., India)	Thesis External Examiner
2.	Ph. D	Sepideh Yazdani	Automatic Brain Segmentation in MRI	2016 (UTM)	Thesis & Viva External Examiner
3.	Ph.D.	K. Srividhya	Intelligent System for Adaptive Enhancement of Underwater Images for Accurate Object Recognition	2016 (Hindustan Institute of Technology & Science, India)	Thesis External Examiner
4.	Ph.D. (IT)	G. Radhamani	An Efficient Mobile Transaction Processing Model for XML Databases	2005 (MMU)	WCD Examiner
5.	Ph.D. (Engineering)	Bachir Guendouz	3D Ultrasound Imaging Using Visual Probe Localisation	2009 (MMU)	WCD Examiner
6.	Ph.D. (Engineering)	Nbhan Salih	Block-based Shape Representation and Retrieval for CBIR	2009 (MMU)	WCD Examiner
7.	Ph.D. Management	Lim Li Chen	Workplace Deviance Among Volunteers in Malaysia's Emergency Relief Services	2015 (APU)	WCD Examiner

Masters by Research Examiner

No.	Degree	Student	Topic	Grad.	Role
1.	M.Eng.Sc.	Choong Miew Keen	Digitisation, Visualisation and Lossy Compression in A Cost-Effective Telehealth Environment	2004 (MMU)	Thesis & Viva Examiner
2.	M.Eng.Sc.	John See Su Yang	Algorithms for an Integrated Vision-based Home Security System	2004 (MMU)	WCD Examiner
3.	M.Eng.Sc.	Aziah Ali	Design of a Setup For 3D Ultrasound Using Visual Probe Tracking	2005 (MMU)	Thesis & Viva Examiner
4.	M.Eng.Sc.	Tan Chue Poh	Microwave Remote Sensing and Satellite Image Processing for Rice Crop Field	2005 (MMU)	WCD Examiner
5.	M.Eng.Sc.	Chung Sheng Hung	Texture-Based Multimode Analysis For Preliminary Diagnosis Of Liver Cyst And Fatty Liver Using Neural Networks	2006 (MMU)	Thesis & Viva Examiner
6.	M.Eng.Sc.	Md. Shakawat Zaman Sarker	A Semi-automatic System for the Extraction of Anatomical Objects from Abdominal MRI Images	2006 (MMU)	Thesis & Viva Examiner
7.	M.Eng.Sc.	Chin Ji Jian	A Study on Identity-based Identification Schemes	2008 (MMU)	WCD Examiner
8.	M.Eng.Sc.	Wong Ting Hwee	MPSoC Approach for Optimizing the Execution Time of Description Logic Reasoner	2008 (MMU)	WCD Examiner
9.	M.Eng.Sc.	Mustafa Safa	<i>Information unavailable at the moment</i>	2008 (MMU)	Thesis & Viva Examiner
10.	M.Eng.Sc.	Thinaharan Ramachandran	<i>Information unavailable at the moment</i>	2009 (MMU)	Thesis & Viva Examiner
11.	M.Eng.Sc.	Hamada	<i>Software Testing</i>	2010 (UTP)	Thesis & Viva External Examiner
12.	M.Eng.Sc.	Ahmed ElMardi	Development Of Kidney Teleultrasound Consultation System	2010 (UM)	Thesis & Viva External Examiner
13.	M.Eng.Sc.	Mohd Narizee	<i>Information unavailable at the moment</i>	2010 (MMU)	Thesis & Viva Examiner
14.	M.Eng.Sc.	Mohammad Shafieipour	Design and Optimisation of Signal Coding Techniques for Broadband Power Line Communications	2010 (MMU)	WCD Examiner
15.	M.Eng.Sc.	Wong Ting Hwee	MPSoC Approach for Optimizing the Execution Time of Description Logic Reasoner	2011 (MMU)	Thesis & Viva Examiner

Masters Dissertation Examiner

No.	Degree	Student	Topic	Grad.	Role
1.	M.Eng. Microelectronics	Aw Chee Hong	FPGA implementation of Hough Transform for line detection	2010 (MMU)	Viva Examiner
2.	M.Eng. Microelectronics	Khor Wan Chong	Implementation of Blowfish Encryption in 12C Engine	2010 (MMU)	Viva Examiner
3.	M.Eng. Microelectronics	Lim Kai Sian	<i>Information unavailable at the moment</i>	2010 (MMU)	Project Examiner
4.	M.Eng. Microelectronics	Chin Chee Leong	<i>Information unavailable at the moment</i>	2010 (MMU)	Project Examiner
5.	M.Eng. Telecommunications	Chee Wei Keung	<i>Information unavailable at the moment</i>	2010 (MMU)	Project Examiner
6.	M.Eng. Telecommunications	Arash Asadi	<i>Information unavailable at the moment</i>	2010 (MMU)	Project Examiner
7.	MSc Technology Management	Roni Fahrozi	An Exploratory Study on Generation Y's Technology Led Tourism	2016 (APU)	Dissertation Examiner
8.	MSc Technology Management	Abdulsamad Mohammed Aminu	Effectiveness of Web Personalisation using Web 3.0	2016 (APU)	Dissertation Examiner
9.	MSc Software Engineering	Beverly Amunga Onyimbo	User Interface Design for Mobile Apps	2016 (APU)	Dissertation Examiner
10.	MSc in Software Engineering	Chua Kiem Mun	Factors Affecting E-Commerce Adoption in SMEs: An Exploratory Study of Malaysia	2017 (APU)	Co-supervisor

REFERENCES:

-
- *Tan Sri Dr. Ghauth Jasmon* (Email: ghauth@gmail.com)
(Founding President, Multimedia University, Malaysia)
Suite 1 Level 22, Wisma R&D, University of Malaya, Jalan Pantai Baru, 59990 Kuala Lumpur, Malaysia.
 - *Prof. Ir. Dr. Yow Ho Kwang* (Email: yowhk@utar.edu.my)
Dean, Faculty of Engineering and Science,
Universiti Tunku Abdul Rahman, Jalan Genting Kelang, 53300 Kuala Lumpur, Malaysia
 - *Prof. Dr. David Bradley* (Email: d.a.bradley@surrey.ac.uk)
Professor, University of Surrey, Guildford, Surrey, GU2 7XH, United Kingdom.
 - *Prof. Dr. Chikkanan Eswaran* (Email: eswaran@mmu.edu.my)
Professor, Faculty of Computing & Informatics, Multimedia University, 63100 Cyberjaya, Malaysia.

Title: Big Data

Synopsis:

Big Data is the buzz word these days, with its far-reaching application across all sectors and domains. The prevalence of the data meeting the 4Vs criteria - large volume, velocity, variety and veracity, has led to the need to establish new methods and technologies to cope with the rich information available to predict and provide vital services in a timely and appropriate manner. Artificial Neural Networks (ANN) are intrinsically suitable for handling deep learning, yet very conveniently used as a "black box" to obtain the desired high performance. This talk presents some fundamentals on ANN and Big Data, and introduces some of the current and future work undertaken on Big Data through the aid of ANN."

Contents:

1. Introduction

- 1.1 What is "Big Data"?
- 1.2 Definition
- 1.3 Fundamentals – 4Vs

2. Focus on Talent Creation

- 2.1 Job Demand
- 2.2 Opportunities
- 2.3 Required Skills
- 2.4 Education & Professional Development

3. Big Data Landscape

- 3.1 Focus on Open Data
- 3.2 Focus on Open Innovation

4. Tools & Technologies

- 4.1 Tools for Data Science
- 4.2 Neural Networks for Data Science
- 4.3 Deep Learning

5. Related Issues

- 5.1 Recent Advances in Data Science
- 5.2 Competitions

6. Conclusion

- 6.1 Summary
- 6.2 Exercise / Assessment
- 6.3 Recap & Closing Remarks

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IR-220



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Directorate of International Relations
Visiting Professor Programmes

Details of Professor & Course:

Name of the Professor	Prof. Dr. R. Logeswaran (CV attached)
University & Country	Asia Pacific University, Malaysia
Title of the Course	Concepts & Future Trends in Big Data & Data Science
Department	Computer Science and Engineering
Dates of the Course	January 2- 8, 2019
Total No. of Hours	15
No. of Credits	1
Course Content	Attached

Prepared by:

Coordinator – Directorate of Intl. Relations

Forwarded by:

Director – Directorate of Intl. Relations

HoD

Dean

Director (Academic)

Vice Chancellor

Prof. Dr. techn. Koteswara Rao Anne
Director Academics

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Course code: 1157CS944

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VTU8125	ROHIT KUMAR MUDGAL	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
2	VtU8107	BADRI PARTHASARATHY	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	C
3	VTU6209	SHASHI SHEKHAR PATHAK	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	B
4	VtU6485	GAURAV KUMAR	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	A
5	VTU6197	ANURAG CHAUHAN	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	C
6	VTU5931	ATUL	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	A
7	VtU6440	SANYUKTA MEHTA	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	S
8	VtU7075	BABURAO ARAVIND	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	B
9	VtU7732	SHIVAM SINGH	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	A
10	VtU6980	NALAMOTHU MAHESH	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
11	VtU7163	GUTLAPALLI VEERA BABU	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	A
12	VtU8771	ARLAGADDA VENKATA SANTHOSH	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
13	VtU8776	BHIMAVARAM SAI MAHESH	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	B
14	VtU10171	KODAVALEELA SAIRAM	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
15	VtU10209	KAKARLA RAVIKANTH	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
16	VtU10279	K.MOUNIKA REDDY	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
17	VtU9363	M.CHANDRA SEKHAR	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
18	VtU9438	PERAM MANOGNA	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
19	VtU8871	D.VINAY SAI KUMAR	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
20	VtU8925	PAKANATI JAYAVARDHAN REDDY	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	A
21	VtU9009	A.N.V. PRABHAKAR	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
22	VtU9925	PARLA SAI KIRAN	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	A
23	VtU9927	JUTHUKA SUJITH FRANCIS	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
24	VtU9928	SURABATHINA MADHU SAI SHREE	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
25	VtU9935	VANIPENTA TEJA REDDY	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	C
26	VtU10726	KALISSETTY HARSHITHA	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
27	VtU10739	RISHI PRAKASH	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	NE	NE
28	VTU6460	BELLAMKONDA JAGADEESH BABU	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	B
29	VTU6162	BRAMHANAPALLI SAINATH	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	B
30	VtU10335	AKSHITA RAI	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
31	VtU10340	AKSHADA GUPTA	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
32	VtU10421	SUMANTH REDDY.M	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	B
33	VtU6592	ADAPA SAI PAVAN	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	B
34	VtU9124	VIKAS REDDY.S	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
35	VtU9580	BEERAVALLI CHANGALVA RAYAL REDDY	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
36	VtU8694	N HEMANTH BALA KRISHNA	B.Tech	CSE	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	C
37	VtU7239	PUJA GUPTA	B.Tech	CSE(DA)	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	B
38	VtU7255	AKASH KUSHWAHA	B.Tech	CSE(DA)	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	S
39	VtU9038	P.CHIRAMJEEVI	B.Tech	CSE(DA)	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	C
40	VtU9591	P.SANDEEP KUMAR REDDY	B.Tech	CSE(DA)	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D
41	VtU9135	U.BHARATH VIJAY SURENDRA VARMA	B.Tech	CSE(NW&CS	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	C
42	VtU9136	V.SURYA KIRAN VARMA	B.Tech	CSE(NW&CS	1157CS944	Concepts and Future Trends in Big Data and Data Science	Pass	D

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
43	VtU9997	R MANIDEEP	B.Tech	SE(NW&CS	1157CS944	Concepts and Future Trends in Big Data and Data Science	NE	NE

DR-220



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Our Ref. No: 2017/VF 146 & 147

Your Ref. No:

Submitted for the Approval:

Name of the Professor: Prof. Dr. R. Logeswaran

University & Country : Asia Pacific University, Malaysia

Course Titles : 1. Concepts & Future trends in Big data & Data Science (15 Hrs)
2. Data Compression Strategies (15Hrs)

Department : Computer Science and Engineering

Students : Course 1: 2015-2019, 10 Students, 2016-2020, 7 Students & 2017-2021, 24 Students ✓
Course 2: 2015-2019, 5 Students, 2016-2020, 9 Students & 2017-2021, 22 Students ✓

Training Program date: 26th to 31st December, 2018

Sl. No	Description	Amount in INR	Amount in MYR
1	Course Honorarium (Rs.3000 * 30 Hrs) (Net Amount & Tax Free)	90000	5321.59
3	Visa processing Charges (1 MYR= 17.204 as on 17 th Dec., 2018) (To be reimbursed , Bill Enclosed)	7957	462.56
4	Taxi Charges (Travel to/from airport) & parking Charges (To be reimbursed , Bill Enclosed)	2379	140.7
Total		100336	5924.85

(Rupees One lakh three hundred and thirty six only)

In this regard, I request your approval for transferring the amount in MYR to the following Account,

Name : R. Logeswaran N Rajasvaran

Account No: 8003699691

Bank name: CIMB BANK BERHAD

Branch : CYBERJAYA, MALAYSIA

SWIFT Code: CIBBMYKL

Thank You,

S. Sivaperumal

03/01/19

Entered in Budget Regi

Pg. 24, Sl. 52.