ASSOC. PROF. TS. DR. SABRINA AHMAD

Faculty of Information and Communication Technology (FTMK), UTeM, 76100 Hang Tuah Jaya, Durian Tunggal, Melaka.

Phone: (06) 270 2462 | Mobile: (60) 19-6753127 | E-mail: sabrinaahmad@utem.edu.my

EDUCATION		
2012	The University of Western Australia Doctor of Philosophy in Computer Science	Perth, Australia
2002	Centre for Advanced Software Engineering, Universiti Teknologi Malaysia MSc (Computer Science - Real-Time Software Engineering)	Kuala Lumpur
2000	Universiti Utara Malaysia Bachelor of Information Technology (Hons) Second Class Upper.	Sintok,Kedah
PROFESSIONAL C	CERTIFICATION	
2017	Certified Professional Tester (CTFL) by ISTQB	
2013	Certified Information Technology Architect (CITA-F) by IASA	
2013	Certificate in Fundamental Knowledge of IT Architecture by IASA	
2011	Certified Professional Requirements Engineering (CPRE -FL) by IREB

CURRENT POSITION

Associate Professor Faculty of Information and Communication Technology (FTMK), Universiti Teknikal Malaysia Melaka (UTeM)

EXPERIENCE

June 2019 – June 2022	Deputy Dean (Research & Postgraduate Studies)	Universiti Teknikal Malaysia Melaka
June 2018 – to date	Associate Professor	Universiti Teknikal Malaysia Melaka
March 2018 – June 2019	Coordinator, Centre of Excellence	Universiti Teknikal Malaysia Melaka

May 2012 – June 2018	Senior Lecturer	Universiti Teknikal Malaysia Melaka
September 2002 – May 2012	Lecturer	Universiti Teknikal Malaysia Melaka
May 2004- May 2006	Head of Department	Universiti Teknikal Malaysia Melaka
August 2000 – April 2001	IT Executive	KFC Holdings (M) Bhd.

TEACHING

- Requirements Engineering (Master)
 - o Sem 2 2021/2022
 - o Sem 2 2020/2021
 - o Sem 2 2019/2020
 - o Sem 1 2018/2019
 - o Sem 1 2018/2019 (Off-shore)
 - o Sem 1 2017/2018
 - o Sem 1 2016/2017 (Off-shore)
- Advanced Software Engineering (Master)
 - o Sem 1 2020/2021
 - o Sem 2 2016/2017 (Off-shore)
- Software Quality (Master)
 - o Sem 1 2019/2020
- Requirements Elicitation (Master)
 - o Sem 2 Session 2014/2015
 - o Sem 2 Session 2014/2015
 - o Sem 1 Session 2014/2015 (Off-Shore)
 - o Sem 2 Session 2013/2014
 - o Sem 1 Session 2012/2013
 - o Sem 2 Session 2011/2012
 - o Sem 1 Session 2011/2012
 - o Sem 2 Session 2010/2011
- Software Engineering
 - o Sem 2 2021/2022
 - o Sem 1 2021/2022
 - o Sem 1 2019/2020
 - o Sem 2 2018/2019
 - o Sem 1 2018/2019
 - o Sem 2 Session 2012/2013
 - o Sem 1 Session 2012/2013

- o Sem 1 Session 2011/2012
- o Sem 1 Session 2010/2011
- o Sem 1 Session 2004/2005
- o Sem 2 Session 2003/2004
- Sem 1 Session 2002/2003
- Special Topic in Software Engineering
 - o Sem 2 Session 2017/2018
 - o Sem 2 Session 2016/2017
 - o Sem 2 Session 2015/2016
 - o Sem 2 Session 2014/2015
- Software Architecture and Design
 - o Sem 1 Session 2013/2014
 - o Sem 2 Session 2012/2013
 - o Sem 2 Session 2011/2012
 - o Sem 1 Session 2011/2012
 - o Sem 2 Session 2010/2011
- Software Requirements Engineering
 - o Sem 2 Session 2013/2014
- Software Project Management
 - o Sem 1 Session 2005/2006
- Data Structure and Algorithm
 - o Summer Sem 2006
- System Development
 - o Sem 1 Session 2002/2003
 - o Summer Sem 2003
- Software Requirement and Design
 - o Sem 2 Session 2020/2021
 - Sem 2 Session 2014/2015
 - o Sem 2 Session 2005/2006
 - o Sem 2 Session 2002/2003
- Database (Mc Access and Mc SQL Server)
 - o Sem 2 Session 2002/2003
- Software Verification and Validation (Diploma)
 - o Sem 1 2016/2017
 - o Sem 1 2017/2018

SUPERVISION

Doctor of Philosophy

- Yudi Muliyanto (2021 current)
- Rosmiza Wahidah Abdullah (2020 current)

- Ani Rahmani (2019 current)
- Benyamin Langgu Sinaga (2018 current)
- Mochammad Zuliansyah (2017 2022)
 - "Metamodel Development Framework for Upstream Petroleum Enterprise Architecture"
- Romi Satria Wahono (2013 2015)
 - "Metaheuristic Optimization Based Software Defect Prediction Framework"

Master by Research

- Umairah Anuar (2015 2018)
 - "Reducing Software Requirements Defects by providing Boilerplates for Software Requirements Specification"
- Nurul Atikah Rosmadi (2014 2017)
 - "An Improved Defect Management Approach for Better Quality Software Requirements"

Final Year Project (Master)

- Riftika Riza (2021)
 - "An Enhanced MoSCoW Method in Software Requirements Prioritization"
- Zariza Hashim (2018)
 - "Re-use based Requirements Engineering by Utilizing Knowledge Pattern"
- Fazilah Binti Ismail (2017)
 - "Essential Requirements in Smart Home Application"
- Rafidah Binti Ab. Rahman (2017)
 - "Measuring Students' Engagement in Learning Database Subject through Gamification: A Polytechnic Muadzam Shah Case Study"
- Maisatul Akmal Binti Mat Tahir (2017)
 - "Learning through Playing: Developing Programming Skills with RoboRobo"
- Zariza Bin Hashim (2017)
 - "Re-use Based Requirements Engineering by Utilizing Knowledge Pattern"
- Gbefa Maureen Peremoboere (2016)
 - "Development of a Multi-Software Agents Decision Support System for Hospital Appointment Management"
- Lau Hong Sheng (2015)
 - "Tool-Assisted Model for Software Requirements Negotiation"
- Danang Wahyu Utomo (2014)
 - "Collaborative Software Engineering Education"

Final Year Project (Bachelor)

2020/2021

- Mohd Asyraf bin Mohd Hanif (Digital Real Estate Agent Management System)
- Koh Kok Sheng (FTMK Navigator)
- Muhammad Mustaqim bin Samsudin (Insightful Portfolio Management System)

- Muhammad Adib bin Noor Hazuki (Vending Machine Stock Management Application)
- Muhammad Hasif bin Khairul Nizam (One Time Job Mobile Application)
- Nur Aqilah binti Rosli (Leave Management System)

2018/2019

- Nur Najihah Binti Mohd Rasul (Shopping Budget Application)
- Lee Zhi Xin (Caregiver Seeking System)
- Kamarul Baharin bin Yusof (Malacca University Research Assistant Finder)
- Gan Jun Xian (Run for Boons)

2017/2018

- Siti Sarah Binti Zaid (Product Identification for Partially Visual Impaired People using Mobile Application)
- Kong Ii Ning (Farmers' Helper Application)
- Khor Rui Chin (Food Scanning Application)
- Koay Wen Hui (Smart Parking System)
- Siti Shahira binti Salim (Plant Defect Detection and Solution Classification System

2016/2017

Khairunnisha binti Ismail (Disaster Donation Management System)

2015/2016

- Shafiq Akmal Mansor (Cloud Storage Image Security)
- Eddy Fazzirrullah Azmi (Remote Reminder)
- Mohamad Hamizan Husni Bin Mohd Maksid (Home Monitoring System)

2013/2014

- Lim ShiowEe (Road Accident Assistant Mobile Application)
- Ng Shi Xian (Malaysia Vacations Planner (MVP))
- NoraimanBinti Mohamed Sabtu (Lil'me Mobile Application)
- Siti Aida AdawiyahBinti Abu Hassan (Calorie Station Mobile Application)
- Tan Jin Su (Effective Food Ordering System)
- Tee Chia Shen (Trip Planner Manager)

2012/2013

- Muhammad Suffian Bin Sikandar Ghani (Smart Post Box System with RF Technology and GSM Modem)
- ShazreenBintiMohdAsrap Khan (Know your Course Application)
- Ng Sing Liang (Cartoon Avenger Mobile Application)
- Muhammad Bin Mohamed Sidek (M-Zakat Application)
- Muhammad Hariz Bin Khalil (H-Care Aplication)

2011/2012

- Siti Aishah Miskon(A Prototype of Mobile Application on Islamic Food Therapy)
- Soh Choi Yoke (Weight Management Go Mobile)
- Tong Siew Foong (Personal Dietitian)

- Melanie Ten LiYen (Car Loan Approval Decision Support System User)
- Hakimah Yusof (Diagnostic Imaging Management Department System)
- Nur Aishah Roslan (Norly Cookies e-Management)
- Nurul Hidayah Mohamad (DVD House System)
- Emir Afiq Ridzuan (Online Symphony Music Studio System)

2005/2006

- Noor Azlan Alias
- Fauzul Hakim Ab. Muis
- Mohamad Zaki Ali
- Mohd Zaki Zamani Shirat
- Zamzuri Husnan

2004/2005

- Wong Ming Hai
- Ranjanni a/p Rachenamoty
- NorulMubarakah Ibrahim
- Noor Azilah Pakri

2002/2003

- Suhaida Mohd
- Saadah Abdul Raub
- Syuraiha Md. Isa
- Norshafini Md. Saidan
- Nurhanan Mohd Ghazali

Diploma Project

- 2019/2020 Muhammad Izwan Fahmi bin Irman Sofian (Blood Bank Management System)
- 2019/2020 Joel Tan Kuo Xhong (Event Management System)
- 2017/2018 Zafirah Binti Zamri
- 2016/2017 Nur Syazila Binti Hamzah
- 2014/2015 Noor Zifah Binti Nazaran (Automated Teller Machine System)
- 2011/2012 NursalfarinaBinti Muhammad
- 2010/2011 Muhammad Fahmi Azri Bin Mustafa
- 2004/2005 Mohd Fadzil Bin Md Arap

Workshop II

2020/2021

- Fatin Najiha binti Mohd Tarmidi
- Muhammad Akmal bin Mohd Sabri
- Muhammad Imran bin Ismail
- Muaadh Anwar Salem Medshel

2019/2020

- Muhammad Hasif bin Khairul Nizam
- Sopana A/P Murugan
- Mujeeb Ali Najm Al-Qarah
- Ameer Uzair bin Azam

- Ahmad Firdaus Bin Ahmad Husni
- Lee Li Qing
- Sithi Fathimah Binti Ahmad Mahdum

■ Darshini A/P Loganathan

2017/2018

- Siti Sarah Binti Zaid
- Kamilea Arisya Binti Kamal Ariffin
- Mohd Nazmi Syarifuddin Bin Mohd Yakob

2016/2017

- Ardhi Surya Ibrahim
- Lee Li Teng
- Muhammad Nuruddin Bin Adam
- Nur Hamizah Binti Shahroni

2014/2015

- Woon Pei Wen
- Eisy Humaira Binti Abdul Aziz
- Nurul Fatimah inti Abdul Samad
- Muhammad Zaid Bin Ali
- Noor Azreeani Binti Azman

2013/2014

- Muhammad Amir Azwan Bin Mohamad Aminordin
- Muhammad Aqsal Bin Mohd Ridzuan
- Nur Fakhira binti Ismail
- Muhammad Fadhil Hafiz Bin Shahir

2012/2013

- Eda Aliah Athirah Binti Abdul Aziz
- Muhamad Hariz Bin Khalil
- Muhamad Bin Mohamed Sidek
- Kasiman Bin Wasiman
- Lim Wei Jun
- Ee Soon Shen
- Tan Lek Wei
- Ng Sing Liang

2010/2011

- Chip Wai Yein
- Tong Siew Foong
- Radar Sandi Augustha
- Norhidayu Noordin
- Soh Chooi Yoke
- Wan Nurul Ain Mieor Abdul Jamil
- Nur Athirah Omar
- Siti Aishah Miskon

- Maizatul Asni Ayub
- Wan Najihah Mohamad
- Badariah Mohamad

- Catherine Foo Wei Li
- Mohd Faisal Imran Ismail
- Mohd Shahnizar Marzuki
- Mohd Azmin Abu Bakar
- Muhamad Azlan Muhamad Sape'ei

2005/2006

- Aminah Bibi Bawamohiddin
- Norelmiah Samian
- Roslah Abdul Rahim
- Siti Nor Rauzah Mohd Saim
- Ikhwan zaini Awang Mat Saaid
- Mohd Zaki Zamani Shirat
- Zamzuri Husnan
- Rusliza Abdullah

Workshop 1

2020/2021

- Zuraida binti Mohd Zeidy
- Alisya Ezzati binti Hizamudin
- Zaki Armindo

2017/2018

- Shaik Mohd Farhan bin S M Salmi
- Zulfadhli bin Mohd Jais
- Wan Nabilah Huda binti Wan Mohd Burhanuddin
- Nurul Syaheerah Anuar

2016/2017

- Fairuza Nur Amalina Binti Azizan
- Koay Wen Hui
- Kong Ii Ning

2014/2015

- Shafiq Akmal Bin Mansor
- Che Nurhidayu Binti Che Roslan
- Ana Syahirah Binti Azmi

2013/2014

- Siti Amirah Binti Muhamad Termidi
- Nor Hadhirah Binti Mohd Sheriff
- Loke Kien Bin
- Lim Chi Hong
- Jegadeswari A/P Mani

- Muhamad Amir Hamdi Bin Kassim
- Nur Hanis marini Binti Ab. Rahim
- Adeline Chua Jia Min

Potriven Selva A/L Subbuodavar

2011/2012

- Nur E'zzati Md. Faisol
- Nursyahmi Abdul Sukor
- Nuraini Rusdi
- Nurfatin Ismail

2010/2011

- Hafidz Nurul Yaqin Abdullah
- Muhammad Rachmadhana
- Farah Aris
- Siti Nur 'Aini Abd. Khalil
- Muhammad Redzuan Ishak
- Muhammad Adib M.Salin

Diploma Workshop

2002/2003

- Mohan Raj a/l Subramaniam
- Norzahirah Zainuddin

RESEARCH & DEVELOPMENT

Editorial

- 1. Editor, Journal of Advanced Computing Technology (JACTA)
- 2. Editorial Review Board, IEEE Access
- 3. Editorial Review Board, International Journal of Information Technologies and Systems Approach (IJITSA)
- 4. Editorial Review Board, Journal of Software: Evolution and Process (JSME)
- 5. Editorial Review Board, International Journal of Decision Support Systems (IJDSS)
- 6. Editorial Review Board, Journal of Human Capital Development (JHCD)

Research Grants

- 1. Project Leader, Requirements-based Test Case Prioritization Technique to improve Testing Efficiency for Digital Documents Repository System Readiness (PJP/2020/FTMK/PP/S01774)
- 2. Project Leader, Improving the Quality of Software Requirements Specification (SRS) through a Boilerplate Technique (PJP/2017/FTMK-CACT/S01573)
- 3. Member, Improving Agriculture Management Service through Farmer Experience using Smart Farmer Mobile Application (2015: International Grant CLMV)
- 4. Member, An Enhanced Named Entity Recognition based on Fuzzy Semi-supervised Clustering for Unstructured Crime Textual Data Analysis (2015:FRGS)
- Project Leader, A New Software Requirements Defect Management Approach using Formal Negotiation Method to Produce Sustainable Quality Software (2013: FRGS)

- 6. Member, Developing a hybrid model by integrating informative parameters in information security risk analysis (2013:FRGS)
- 7. Member, Enhance Cepstrum-based (MFCC) Extraction Technique with Wavelet Coefficient Method for Improving Identification Accuracy (2013: FRGS)
- 8. Project Leader, An Improved Defects Classification Taxonomy for Rapid Anomaly Detection to Aid Crime Investigation (2013: PJP, UTeM)
- 9. Member, Enhancing Predictive Crime Mapping Model Using Association Rule Mining For Criminal Geographical And Demographic Structure Modeling (2013: PJP, UTeM)
- 10. Project Leader, A Framework for Empirical Investigation to Attain Cost Effective Software Requirements through Negotiation (2011: PJP, UTeM)
- 11. Member, An Enhance Programming Approach in Teaching and Learning for Introductory Programming Learner (2011: PJP, UTeM)
- 12. Member, Investigation on Music Feature Representation for Data Retrieval (2011: PJP, UTeM)
- 13. Member, Virtual Reality: KUTKM Campus Virtual Tour (2002: PJP, KUTKM)
- 14. Member, ASISS E-Learning System: Kajian Keberkesanan Pelaksanaan E-Learning di FTMK. (2003: PJP, KUTKM).

Consultancy Projects

- 1. Melaka Smart Heritage Building System Consultant (2022)
- 2. Forestry Information System, Negeri Sembilan Professional Tester (2017)
- 3. Enterprise Architecture for National Geospatial (NGMP) Consultant (2017)
- 4. Master Degree Off-Shore Program (Kuching) Project Leader (2018 2020)
- Master Degree Off-Shore Program (Muadzam Shah) Academic and Program Coordinator (2016 2018)
- 6. Master Degree Off-Shore Program (Sabak Bernam) Program Coordinator (2017 2019)
- 7. MyUni Curriculum Development (Foundation and Undergraduate) Consultant (2012)
- 8. Malaysia Online Services Portal Project Manager (2012)
- 9. i-Hutan Jabatan Perhutanan Negeri Terengganu Quality Assurance Team Leader (2011)

Publications

- 1. Journal, "Missing Data Imputation Via Stacked Denoising Autoencoder Combined with Dropout Regularization Based Small Dataset in Software Effort Estimation" International Journal of Intelligent Engineering and Systems, 15 (3) pages 253–267 (2022)
- 2. Journal, "Conditional Variational Autoencoder with Inverse Normalization Transformation on Synthetic Data Augmentation in Software Effort Estimation" International Journal of Intelligent Engineering and Systems 15 (3) pages 366–381 (2022)
- 3. Journal, "A recommendation system of training data selection method for cross-project defect prediction" Indonesian Journal of Electrical Engineering and Computer Science, 27 (2) pages 990-1006 (2022)
- Journal, "Efficacy of the Image Augmentation Method using CNN Transfer Learning in Identification of Timber Defect" International Journal of Advanced Computer Science and Applications, 13 (5) pages 107-114 (2022)
- Journal, "Bayesian hyperparameter optimization and Ensemble Learning for Machine Learning Models on software effort estimation" International Journal of Advanced Computer Science and Applications, 13 (3) pages 419-429 (2022)

- Proceedings, "Performance Comparison of Equal Width and Equal Frequency Discretization Methods for Author's Handwriting Recognition" Proceedings of the 8th International Conference on Computational Science and Technology, Springer, Singapore, p. 535-546 (2022)
- 7. Journal, "Research Efforts and Challenges in Crowd-based Requirements Engineering: A Review" International Journal of Advanced Computer Science and Applications, 12 (9) pages 395-402 (2021)
- 8. Journal, "A Systematic Literature Review on Regression Test Case Prioritization" International Journal of Advanced Computer Science and Applications, 12 (9) pages 253-267 (2021)
- 9. Proceedings, "Sentiment Analysis Dashboard using Twitter Data in power BI" International Conference on Intelligent and Interactive Computing 2021, Melaka, Malaysia, p. 61-67 (2021)
- 10. Journal, "Identification of wood defect using pattern recognition technique" International Journal of Advances in Intelligent Informatics, 7 (2) pages 163-176 (2021)
- 11. Journal, "Features Ranking Method to Determine Significant Features for Handwriting Images—Systematic Literature Review" Int. J. Advance Soft Compu. Appl 12 (2) (2020)
- 12. Journal, "A REVIEW OF TRAINING DATA SELECTION IN SOFTWARE DEFECT PREDICTION" Journal of Theoretical and Applied Information Technology 98 (12), pp. 2092-2108 (2020)
- 13. Journal, "Prioritizing Business Architecture Entities with Best-Worst Method" International Journal on Emerging Technologies 11 (3), pp. 995-1004 (2020)
- 14. Journal, "Method for Estimating the Performance of Enterprise Architecture Implementation in an Upstream Petroleum Industry" International Journal of Recent Technology and Engineering 8 (6), pp. 1868-1874 (2020)
- 15. Journal, "Comparison of global and local features for author's identification by using geometrical and zoning methods" 1502 (1) (2020)
- Journal, "A Study on Reuse-based Requirements Engineering by Utilizing Knowledge Pattern" International Journal on Advanced Science, Engineering and Information Technology. 10 (1), pp. 41-46 (2020)
- 17. Journal "Analysis of texture features for wood defect classification" Bulletin of Electrical Engineering and Informatics 9 (1), pp. 121-128 (2020)
- 18. Journal, "IoT based temperature and humidity monitoring framework" Bulletin of Electrical Engineering and Informatics 9 (1), 229-237 (2020)
- 19. Journal, "Selecting General entities for TOGAF's Core Content Metamodel using Best Worst Method" International Journal of Innovative Technology and Exploring Engineering, 9 (1), pp. 3857-3863 (2019).
- Journal, "An Exploration to Determine Essential Requirements for Smart Home Application" International Journal of Innovative Technology and Exploring Engineering, 8 (12), pp. 1760-1764 (2019).
- 21. Journal, "An Intelligent Crisis-Mapping Framework for Flood Prediction" International Journal of Recent Technology and Engineering, 8 (2 Special Issue 8), pp. 1304-1310 (2019).
- 22. Proceedings, "A Study on Gamification for Higher Education Students' Engagement towards Education 4.0" Lecture Notes in Networks and Systems, 67, pp. 491-502 (2019).
- 23. Journal, "Shopping Assistant App for people with Visual Impairment: An Acceptance Evaluation" International Journal of Computing, 18 (3), pp. 285-292 (2019).
- 24. Journal, "Logical Approach: Consistency Rules between Activity Diagram and Class Diagram" International Journal on Advanced Science, Engineering and Information Technology, 9 (2). pp. 552-559 (2019).
- Journal, "A Systematic Literature Review on Enterprise Architecture Development in Various Industry Domains" Journal of Theoretical and Applied Information Technology, 97 (3). pp. 897-917 (2019).
- 26. Journal, "A Review on Requirement Elicitation Effort in Software Development Process" Journal of Software Engineering & Intelligent Systems, 4 (2) (2019).

- Journal, "An Enhanced Malay Named Entity Recognition using Combination Approach for Crime Textual Data Analysis" International Journal of Advanced Computer Science and Applications, 9 (9). pp. 474-483 (2018)
- 28. Journal, "Named Entity Recognition using Fuzzy C-Means Clustering Method for Malay Textual Data Analysis" Journal of Telecommunication, Electronic and Computer Engineering, 10 (2-7). pp. 121-126 (2018).
- 29. Journal, "The Effectiveness of Gamification Technique for Higher Education Students Engagement in Polytechnic Muadzam Shah Pahang, Malaysia" International Journal of Educational Technology in Higher Education, 15 (41). pp. 1-16 (2018).
- 30. Journal, "An Empirical Investigation on a Tool-based Boilerplate technique to Improve Software Requirement Specification" International Journal of Advanced Computer Science and Applications, 9 (12). pp. 397-401 (2018).
- 31. Journal, "Crowdsourcing for Requirements Engineering: A Simplified Review" International Journal of Computer Information Systems and Industrial Management Applications, 10 pp.134-142 (2018).
- 32. Journal, "A Tool-based Boilerplate Technique to Improve SRS Quality: An Evaluation" Journal of Telecommunication, Electronic and Computer Engineering, 10 (2-7) pp. 111-114 (2018).
- 33. Book, "Requirements Engineering for Internet of Things: 4th Asia-Pacific Symposium, APRES 2017, Melaka, Malaysia, November 9–10, 2017" Springer, Editor (2018).
- 34. Journal, "Requirements Elicitation with Defect Prevention Approach" Journal of Next Generation of Information Technology,8(1). pp. 1-10 (2017).
- 35. Proceedings, "A Malay named entity recognition using conditional random fields" 5th International Conference on Information and Communication Technology (ICoIC7), IEEE, 17 May 2017, p.1-6.
- 36. Journal, "An Enhancement of Software Requirements Negotiation with Rule-based Reasoning: A Conceptual Model" Journal of Telecommunication, Electronic and Computer Engineering, 8(10). pp. 193-198 (2016).
- 37. Journal, "A Survey to Determine the Significance of Software Requirements Defects from Practitioners' Perspectives in Malaysia" International Journal of Computers, 10. pp. 18-24 (2016).
- 38. Journal, "Measuring Software Requirements Quality Following Negotiation through Empirical Study" International Journal of Applied Engineering Research, 11(6). pp. 4190-4196 (2016).
- 39. Journal, "The Automated Named Entity Recognition for Textual Requirements Analysis Social Media" International Journal of Applied Engineering Research (2016).
- 40. Proceedings, "A Conceptual Model to Empower Software Requirements Conflict Detection and Resolution with Rule-based Reasoning" International Soft Science Conference, Langkawi Malaysia (11-13 April 2016)
- 41. Book, "Software Requirements Negotiation: A Stitch in Time Saves Nine", Penerbit Universiti, UTeM (2015).
- 42. Book Chapter, "The Relevance of Software Requirement Defect Management to Improve Requirements and Product Quality: A Systematic Literature Review," Pattern Analysis, Intelligent Security and the Internet of Things, Advances in Intelligent Systems and Computing A. Abraham, A. K. Muda and Y.-H. Choo, eds., pp. 95-106: Springer International Publishing, 2015.
- 43. Journal, "An Adaptation of Requirements Engineering Defects Management Effort: A Survey on Defects in Police Report Statements", Special Issue, Science International Lahore, 26(4). pp. 1483-1485 (2015).
- 44. Proceedings, "A Simplified Systematic Literature Review: Improving Software Requirements Specification Quality with Boilerplates" 9th Malaysian Software Engineering Conference, Kuala Lumpur (16-17 December 2015).
- 45. Proceedings, "A Survey on User's Perceptions of Electric Vehicles for Mobility in a Malaysian University" Malaysia Statistics Conference, Kuala Lumpur (17 November 2015).

- 46. Proceedings, "Software Requirements Defect Management: Moulding A Research Agenda" Postgraduate Research Workshop-Requirements Engineering in conjunction with Software Testing Conference Asia, Kuala Lumpur (7 September 2015).
- 47. Proceedings, "A Significant Study of Determining Software Requirements Defects: A Survey". 14th International Conference of Applied Computer and Applied Computational Science, Kuala Lumpur (23-25 April 2015).
- 48. Journal, "Predictive Crime Mapping Model Using Association Rule Mining for Crime Analysis" Special Issue, Science International Lahore, 26(5). pp. 1703-1706 (2014).
- 49. Book Chapter, "When the Wisdom of Communication is Vital during the Requirements Engineering Process: Lessons Learnt through Industry Experience" in Handbook of Research on Emerging Advancements and Technologies in Software Engineering, ISNB 978-1-4666-6026-7. (2014).
- 50. Journal, "Metaheuristic Optimization based Feature Selection for Software Defect Prediction". Journal of Software, 9 (5). pp. 1324-1333 (2014).
- 51. Journal, "Neural Network Parameter Optimization Based on Genetic Algorithm for Software Defect Prediction", Advanced Science Letters, 20 (6).(2014).
- 52. Journal, "A Comparison Framework of Classification Models for Software Defect Prediction", Advanced Science Letters, 20 (6).(2014).
- 53. Proceedings, "Learning through Playing: Development of Software Architect Skills with Building Blocks". INTED 2014 8th International Technology, Education and Development Conference, Valencia, Spain (10-12 March 2014)
- 54. Modul, "A Student's Guide: UML for Software Engineering", Penerbit Universiti, Universiti Teknikal Malaysia Melaka (2013).
- 55. Journal, "Requirements Negotiation: Does Consensus Reduce Software Development Cost?" JDCTA: International Journal of Digital Content Technology and its Applications, 6 (22). pp. 46-55. ISSN 2233-9310 (Online) (2012).
- 56. Journal (co-author), "Optimizing Feature Extraction using PSO-LDA for Face Recognition," Journal of Information Assurance and Security, ISSN 1554-1010Volume 6 (2012).
- 57. Proceedings, "Learning Through Practice via Role-Playing: Lessons Learnt", EDULEARN 2012

 4th Annual International Conference On Education And New Learning Technologies, Spain, (2-4 July, 2012)
- 58. Proceedings (co-author), "A Comparative Study of Feature Extraction Using PCA and LDA for Face Recognition", Seventh International Conference on Information Assurance and Security (IAS 2011), Melaka, Malaysia. (5 -8 December 2011)
- 59. Journal, "Requirements Negotiation: Making System Stakeholders' Multiple-Views One," Journal of Communication and Computer (2011), Vol 8, pp 290-299.
- 60. Proceedings, "The Effectiveness of Simulation Education for Undergraduate Students in Software Engineering Area", EDULEARN 2011 3rd Annual International Conference On Education And New Learning Technologies, Spain, (4-6 July, 2011)
- 61. Proceedings, "An Experimental Design to Exercise Negotiation in Requirements Engineering", International Conference on Software Engineering and Computer Systems, Springer, Pahang. (27-29 June, 2011)
- 62. Proceedings (co-author), "Recognizing Patterns of Music Signals to Songs Classification using Modified AIS-based Classifier", International Conference on Software Engineering and Computer Systems, Springer, Pahang. (27-29 June, 2011)
- 63. Proceedings, "Sitting around Talking Gets the Job Done Better", 17th University of Western Australia School of Computer Science and Software Engineering Research Conference, Yanchep WA. (9-10 September 2009)

- 64. Proceedings, "Measuring the Stakeholders' Agreement Level in Negotiation through Experiment", IAENG International Conference on Software Engineering, Hong Kong (18-20 March 2009).
- 65. Proceedings, "Requirements Negotiation: Towards Moulding a Research Agenda", The 4th Malaysian Software Engineering Conference, Kuala Terengganu, Malaysia (16-17 December 2008)
- 66. Proceedings, "Sorting out Requirements through Negotiation in Engineering Projects", The 9th Postgraduate Electrical Engineering & Computing Symposium, Perth, Australia (4 November 2008)
- 67. Proceedings, "Negotiation in the Requirements Elicitation and Analysis Process", 19th Australian Software Engineering Conference, Perth, Australia (26-28 March 2008)
- 68. Proceedings, "Understanding Requirements Engineering", International Conference on Engineering and ICT, Melaka, (27-28 November 2007).
- 69. Proceedings, "Virtual Campus Tour: Interactive Advertisement for Kolej Universiti Teknikal Kebangsaan Malaysia", Seminar Kebangsaan ICT Dalam Pendidikan 2005, Prince Hotel, Kuala Lumpur, (17-19 November 2005).
- 70. Proceedings, "Kolej Universiti Teknikal Kebangsaan Malaysia Virtual Campus Tour", Seminar Pencapaian Penyelidikan Peringkat Universiti, Kuantan Pahang, (2005)
- 71. Proceedings, "Developing Knowledge Based Application System by Applying DOD-STD-2167A", International Conference on Informatics 2004, PWTC, Kuala Lumpur, (28 30, July 2004).

AWARD

Research Exhibition

- Silver Medal "Virtual Intelligent Dynamic Data Cloud Center" in ITEX 2018
- Silver Medal, "MyGAP: Mobile Application for Good Agriculture Practice" in ITEX 2018
- Gold Medal, "MyGap: Mobile Application for Good Agriculture Practice" in UTeMEX 2017
- Gold Medal, "Writer Identification System" in UTeMEX 2012
- Bronze Medal, "Investigati on on Music Features Representations for Data Retrieval" in UTeMEX 2012

Award

- Excellent Service Award, (2003, 2011, 2016)
- University Academic Award, Book Category (2016)

ACADEMIC APPOINTMENT

- 1. Advisory Panel Undergraduate Program Majoring in Information System Design Universitas Internasional
- 2. Technical Advisor Diploma Computer Technology (System) Pusat Latihan Teknologi Tinggi (ADTEC) Melaka
- 3. Board of Study Bachelor of Computer Science (System Development) Universiti Teknikal Malaysia Melaka

ADMINISTRATION

- 1. Chair, Faculty Industrial Engagement Committee (2022 current)
- 2. Member, University's Task Force MyRA (2021- current)
- 3. Member, University Journal Committee (2019-2021)
- 4. Member, University Conference Committee (2019 current)
- 5. Chair, Faculty Research Committee (2021 2022)
- 6. Member, Faculty Postgraduate Studies Committee (2019 2022)
- 7. Member, Faculty Academic Committee (2019 2022)
- 8. Editor, RICE (2018 current)
- 9. Chair, Colloquium Committee (2016-2017)
- 10. Chair, Mobility Committee (2014 2015)
- 11. Chair, Consultation Committee (2013 2014)
- 12. Chair, Seminar SE 2011 Committee (2011)
- 13. Chair, Promotion Committee (2011-2013)
- 14. Secretary, Publication Committee (2012)
- 15. Technical Committee, Development of UTeM's Knowledge Management Framework (2016)
- 16. Member, Majlis ICT Universiti (2012-2014)
- 17. Member, Committee of The Code (Programming Contest) (2010-2011)
- 18. Member, Committee of Doctor of IT (2010-2011)
- 19. Member, Committee of Master by Course Final Year Project (2010)
- 20. Member, Committee of Undergraduate Final Year Project (2010)
- 21. Member, Faculty Executive Committee (2004-2006) (2019 current)
- 22. Member, Faculty Academic Committee (2004-2006) (2019 current)
- 23. Member, Faculty Research and Postgraduate Program Committee (2004-2006) (2018 current)
- 24. Member, FTMK Permanent Campus Development Committee (2004-2006)
- 25. Member, Committee of Majlis Bicara Tokoh Minggu Haluan Siswa 2004. (2004)
- 26. Member, Committee of Majlis Malam Penutup Minggu Haluan Siswa 2004. (2004)
- 27. Member, FTMK Committee of Workshop 2, KUTKM. (2003 2004, 2011).
- 28. Member, FTMK Committee of Industrial Training Students, KUTKM. (2003 -2004).
- Member, Committee of Istiadat Pemasyhuran Canselor & Majlis Konvokesyen Komemoratif KUTKM (2003)
- 30. Member, Committee of Majlis Makan Malam Konvokesyen Komemoratif KUTKM (2003)
- 31. Member, Committee of Majlis Makan Malam Kejohanan Golf antara IPTA (2003)
- 32. Member, Committee of Seminar Profesionalisme Wanita Di Era Globalisasi (2003)
- 33. Member, Committee of Majlis Sambutan Hari Q KUTKM 2003 dan Pelancaran Sistem ISO 9000 (2003)
- 34. Member, Committee of Majlis Pelancaran Prosiding Konvensyen Melaka Sebagai Pusat Kecemerlangan (2003)

Short Courses Conducted

- Program Chair, 4th International Conference on Science in Information Technology (ICSITech 2018), Melaka Malaysia.
- Program Chair, 4th Asia Pacific Requirements Engineering Symposium (APRES 2017), Melaka Malaysia.
- Track Chair and PC Member, 4th World Congress on Information and Communication Technology (WICT 2014), Melaka, Malaysia.
- Program Committee Member, International Symposium on Research in Innovation and Sustainability (ISoRIS 2014), Melaka, Malaysia.
- Program Committee Member, Research Survival Workshop (RSW 2014), Melaka, Malaysia.
- Program Committee Member, 6th International Conference on Computational Aspects of Social Networks (CASoN 2014), Porto, Portugal.
- Program Committee Member, 14th International Conference on Hybrid Intelligent System (HIS 2014), Gulf University of Science and Technology, Kuwait.
- Program Committee Member, 14th International Conference on Intelligent Systems Design and Applications (ISDA 2014), Okinawa, Japan.
- Program Committee Member, 6th World Congress on Nature and Biologically Inspired Computing (NaBIC 2014), Porto, Portugal.
- Committee, Software Engineering Postgraduate Workshop (SEPoW 2013), UTeM, Melaka.
- Program Committee Member, Fifth World Congress on Nature and Biologically Inspired Computing (NaBIC 2013), Fargo, North Dakota, USA
- Program Committee Member, 13th International Conference on Hybrid Intelligent System (HIS 2013), Yasmine Hammamet, Tunisia
- Program Committee Member, 13th International Conference on Intelligent Systems Design and Applications (ISDA 2013), UPM, Malaysia
- Program Committee Member, Fourth International Conference on Computational Aspects of Social Networks (CASoN 2012), Sao Carlos, Brazil.
- Program Committee Member, Fourth International Conference of Soft Computing and Pattern Recognition (SoCPaR 2012), Brunei
- Program Committee Member, 12th International Conference on Intelligent Systems Design and Applications (ISDA 2012), Kochi, India
- Program Committee Member, 12th International Conference on Hybrid Intelligent System (HIS 2012), Pune, India
- Conference Committee, 7th International Conference on Information Assurance and Security (IAS 2011), UTeM, Melaka.
- Conference Committee, 11th International Conference on Hybrid Intelligent Systems (HIS2011), UTeM, Melaka.
- Exhibitor for Science, Technology and Innovation Expo 2004
 PWTC, Kuala Lumpur.
 27 29 August, 2004.
- Exhibitor for Exhibition of IPTA Research and Development 2003.

PWTC, Kuala Lumpur.

9 – 12 October, 2003.

Konvensyen Kebangsaan Pertama Pendidikan Kejuruteraan.

Putrajaya Marriott, Putra Jaya.

7 - 9 July 2003.

Seminar Perkongsian Pengalaman Industri ICT Siri 1

Dewan Sri Negeri, Melaka.

25 January 2003.

Short Courses Attended

Course Certified Tester Foundation Level

Orginizer: MSTB (2-6 October 2017)

Course TOGAF 9.1 Foundation & Certified Combined Level 1+2

Organizer: ATD Solution

(11-14 June 2013)

Colloquium Active Learning

Organizer: UTeM (8 May 2013)

Course and Certification: IT Architecture Core,

Organizer: ATD Solution

(15-19 April 2013)

Book Writing Workshop with Dewan Bahasa dan Pustaka

Organizer: UTeM (3 April 2013)

• Course and Certification: IT Architecture Bootcamp

Organizer: ATD Solution (29-31 January 2013)

Workshop: Pengukuhan Kaedah Pembelajaran Berpusatkan Pelajar Zon Selatan

Puteri Pacific, Johor Bharu

Organizer: KPT (13 May 2011)

Course PINTAR FTMK

Port Dickson Organizer: UTeM (22 – 24 April, 2011)

Industrial Talk from Infineon

FTMK, UTeM Organizer: UTeM (13 April 2011)

Course: OBE Approach

PPS, UTeM Organizer: UTeM

• (30 March 2011)

Executive Talk: Innovation in Teaching

Chancellery, UTeM Organizer: UTeM (23 March 2011)

Workshop in Research Module Writing Strategy

PPS, UTeM Organizer: UTeM (21 March 2011)

KPT Research Grant and a Way to Excel

Chancellery, UTeM Organizer: UTeM (15 March 2011)

Module to Book Writing Workshop

City Campus, UteM Organizer: UTeM (9 March 2011)

How to Write An Award Winning Research Proposal Course

Eastin Hotel, Petaling Jaya

Organizer: AKEPT

(29 - 30 September 2010)

Programming with C# Course

Wisma Wirama, Kuala Lumpur

Organizer: MCSB Systems (M) Berhad

(7 - 11 Jun 2004)

Introduction to C# Course

Wisma Wirama, Kuala Lumpur

Organizer: MCSB Systems (M) Berhad

(10 -14 May 2004)

Programming with ADO.Net Course

Wisma Wirama, Kuala Lumpur

Organizer: MCSB Systems (M) Berhad

(10 –14 May 2004)

German Language Short Course

KUTKM, Melaka Organizer: KUTKM

(3 February – 29 April 2004)

Short Conference on Technology Transfer Services & Intellectual Property.

Hotel Renaissance, Melaka.

Organizer: UNIC, KUTKM

(13 December, 2003)

Course; Pengurusan Pengacaraan Majlis dan Protokol.

Tang Dynasty Hotel, Kota Kinabalu Sabah.

Organizer: Yayasan Amanah Latihan Berkanun

(22 –24 September 2003)

Conducting Research and Writing Technical Journal / Conference Papers of International Standard Workshop. Hotel Renaissance, Melaka.

Organizer: Pusat Universiti - Industri (UNIC), KUTKM.

(14 April, 2003)

Course; Protocol Skill and Social Etiquette

The Golden Legacy Hotel, Melaka.

Organizer: KUTKM. (18 - 19 March, 2003) Course; Induksi Umum dan Khusus Kumpulan Pengurusan & Profesional Bil 1/2003
 Ayer Keroh Country Resort, Melaka.

Organizer: KUTKM

(27 – 29 March 2003 & 8 – 26 April 2003)

Dynamic Use of English for Lecturers The Series.

Ilham Resort and Training Centre Port Dickson, Negeri Sembilan.

(11 - 13 May, 2003)

Course, Basic Teaching Methodology for Lecturer

Club House, Palm Resort Sofitel Senai Johor.

Organizer: Universiti Teknologi Malaysia

(25 - 27 Januari, 2003)

Object-Oriented Analysis & Design Using UML Version 2000

Organizer: Rational University

(18 - 22 November, 2002)

Linux Network Administration

Organizer: Open Source Systems Sdn Bhd

(22 – 24 October 2002)

Workshop; FTMK Curriculum

Port Dickson,

Organizer: FTMK, KUTKM.

(13 - 15 Oktober, 2002).

Linux System Administration

Organizer: Open Source Systems Sdn Bhd

(11 - 12 October 2002)

Community Services

 Facilitator – Program Motivasi Sekolah Menengah Tun Mutahir Organizer: FTMK, UTeM
 (2011)

Assistant Instructor – Kursus Literasi IT Modul Microsoft Excel

Organizer: HR, KUTKM (28 & 29 April 2004)

Extra Activities

Advisor/Adjudicator, Debat Teknikal Inter-Fakulti KUTKM 2004
 Organizer: KUTKM

Adjudicator, Debat Diraja Antara IPTA Malaysia 2003

Organizer: Universiti Pendidikan Sultan Idris

Adjudicator, Debat Inter-Varsiti Sains dan Teknologi 2003

Organizer: Universiti Teknologi Malaysia

• Coach for KUTKM Debate Team (2003-2006)