

## CURRICULUM VITAE



### A. PERSONAL PARTICULARS

1. Name : Dr. Mazni binti Omar
2. Current Position : Associate Professor
3. Areas of Specialization : Software Engineering  
Data Mining  
Knowledge Management
4. Academic and Professional Qualifications  
  
2000 – Bachelor of Information Technology (Hons.), Information Technology, Universiti Utara Malaysia  
  
2002 – Master of Science, Real-time Software Engineering, Universiti Teknologi Malaysia  
  
2012 – Doctor of Philosophy, Information Technology and Quantitative Sciences, Universiti Teknologi MARA, Malaysia
5. Titles of Postgraduate theses  
  
The Effectiveness of an Agile Software Methodology: Empirical Evidence on Humanistic Aspects
6. Work Experience
  1. 2000–2002, Tutor, Information Technology, School of Information Technology, Universiti Utara Malaysia

2. 2002 – 2012, Lecturer, Information Technology, School of Computing, College of Arts and Sciences, Universiti Utara Malaysia
  3. 2012 – Current, Senior Lecturer, Information Technology, School of Computing, College of Arts and Sciences, Universiti Utara Malaysia
7. Main Current Research Areas
1. Software Engineering
  2. Data Mining
  3. Knowledge Management

## **B. TEACHING AND SUPERVISION**

### 1. Teaching

#### i. Postgraduate Teaching

1. STIW6014 Requirements Engineering,
2. STIW5054 Requirements Modelling and Design
3. STIW5014 Advanced System Analysis and Design
4. STIC5033 Information Assurance

#### ii. Undergraduate Teaching

1. STIW3044 Web Engineering
2. STID3024 System Analysis and Design
3. TIA1023 Advance Programming
4. TID3163 Software Engineering
5. TIW3053 Real-Time Programming
6. TIW3113 Software Engineering Project II
7. TIW3103 Software Engineering Project I
8. TW3033 Software Testing and Quality Assurance
9. TA1013 Basic Programming

## 2. Graduate Supervision

### 2.1 Supervision (Full Research)

#### i. **Ph.D**

##### a) Main Supervisor

1. Hamzah Ali Alawi Al-Aidaros (2020). An Improved Software Project Monitoring Task of Agile Kanban Method (i-KAM). PhD Thesis – Completed.
2. Abdullah Abdurahman Mohamed Ahmed (2021). The Investigation of the Impact of Code Refactoring Model on the Software Security and Extensibility. PhD Thesis – Completed.
3. Abdullah Mohammed Hussein Al-Sakkaf (2021). A Software Architecture of Knowledge Visualization for Enhancing Students' Programming Skills. PhD Thesis – In Progress.
4. Ruqaya Gilal (2022). A Rule-Based Model of Team Composition. PhD Thesis – In Progress.

##### b) Co-Supervisor/Committee

1. Mustafa Moosa Qasim (2019). Persuasive Components of Mobile Healthcare Architecture for Monitoring Children's Obesity Status. PhD Thesis- Completed.
2. Muhammad bin Mahmud (2020). SOA Integration Framework for Alumni Management System. PhD Thesis – Correction Viva.
3. Javed Iqbal (2021). Design and Estimation of Features Based Software Birthmark. PhD Thesis – In Progress.

#### Penyeliaan Bersama Universiti Lain:

##### *Universiti Teknologi Petronas (UTP)*

4. Abdul Rehman (2017). A Rule-Based Model for Software Development Team Composition: Empirical Study on Personality Types with Gender Classification. PhD Thesis- Completed.

##### *Universiti Malaysia Perlis (UniMAP)*

5. Ibrahim Eskandar Ibrahim Fadhel (2019). The Development of Web-based Systems Quality Engineering Framework in the Universities Domain. PhD Thesis – Completed.

## 2.2 Supervision (Mixed Mode)

### i. **Master's Dissertation**

#### a) Main Supervisor

1. Jasim Mohammed Dahr (2017). An Investigation of Requirements Traceability Practices in Software Companies in Malaysia. – Completed.
2. Rana Alauldeen Abdulrahman (2016). The Investigation on The Best Practices of Extreme Programming (XP) Quality Implementation at UUM IT. –Completed.
3. Bikhtiyar Hasan Abdulrahman (2016). An Automated Software Team Formation Based On Belbin Team Role Using Fuzzy Technique. –Completed.
4. Zahraa Abed Aljasim Muhisn (2015). A Leader Selection Model for Students Software Developer Team Using Analytical Hierarchical Process (AHP) Technique. –Completed.
5. Noor Liza binti Ahmad Khasasi (2015). Agile Scrum Product Team Formation Model. –Completed.
6. Samara Raheem Issa (2014). A Conceptual Model of Pair Programming Knowledge-based Sharing For Improving Programming Skills–Completed.
7. Ku Munirah binti Ku Aman (2014). Applying Value Stream Mapping in Measuring Software Team Performance through Task Monitoring. –Completed.
8. Abdul Rehman (2013). A Rule Based Model of Software Team Composition. –Completed.

#### Project Paper:

9. Zahirah Shaidin (2021). A Requirement Model for Academic Research Portal. – Completed.
10. Nor Radhiah Borhan (2021). A Requirement Model for Online Book Publishing Management System – Completed.
11. Siti Khairunnisa binti Mohd Nor (2018). User Satisfaction Evaluation of Strategic Planning Information System (SPIS) in Universiti Utara Malaysia. –Completed.
12. Tey Hui Chin (2016). Domain Modelling In Humanitarian Aid Supply Chain Management. –Completed.

13. Hamzah Ali Alawi Al-Aidaros (2015). A Requirement Model for e-Ranking Dashboard System (e-RDS). –Completed.
14. Ahmad Mahdi Salih (2015). An Analysis of Webometrics Ranking: A Case Study of Malaysian Public Universities' Websites. – Completed.
15. Sangeeta a/p Mahalingam (2014). Analysis of Effective Software Team Composition using Rule-based Approach. –Completed.
16. Thanalechimi a/p R. Rama (2006). Requirement Model for Maktab Rendah Sains MARA (MRSM) Beseri Homeroom System. – Completed.

b) Co-Supervisor/Committee

1. Vian Abdulmajeed Ahmed (2016). Examining the Influence of Team Work Factors on Team Performance for Software Development Team in Telecommunication Industry in Iraq: A Structure Equation Modeling.-Completed.

Project Paper:

2. Rohaila Bt Abdul Razak (2017). A Student Performance Prediction Model Using Data Mining Technique. –Completed.
3. Ainul Husna Abd Razak (2014). The Impact of Knowledge Management in Pair Programming on Program Quality. – Completed.
4. Siti Salwa binti Bahari (2018). An Analysis of Information Sharing Model of an Online Purchasing System: A Case Study of SME Industry. –Completed.

3. Undergraduate Supervision

i. Project Paper/Dissertation

1. Gifhary Syidhqa Hamim (2019). Vehicle Routing System. – Completed.
2. Noor Hamidah Binti Alam Shah (2017). A Web-based Reservation Review Rating Using Opinion Mining. –Completed.
3. Mariah Shafiqah Binti Mislal (2017). An Automated Software Team Composition using Complex Network–Completed.
4. Ang Bee See, Kevin Goh Liang Piang, Lai Woon Poh, Lau Oi Fong, Fauzliana Mohd Fauzi (2005). E-Tendering Monitoring System. – Completed.
5. Nurhidayah Mazlan, Syaida Zulkifli, Noor Mazlina Mahmood, Siti

- Zarina Md Dali (2005). Tourism Information System. – Completed.
6. Zehan Md Nor, Noor Azreen Mat Rifin, Noor Hayati Abdul Razak (2004). Sistem Pengurusan Pusat Tusyen. – Completed.

ii. Industrial Training/Practicum

1. Nurul Ain Binti Kariya (2012/2013). Tri System Technology Sdn Bhd, Selangor.
2. Nor Hamisah Binti Rahaman (2012/2013). Majlis Perbandaran Kulai, Johor.
3. Nurul Farhana Binti Ariffin (2012/2013). Cyberview Sdn. Bhd, Cyberjaya.
4. Noraini Bt Sufian (2007/2008). Kolej Teknologi Antarabangsa Cosmopoint, Ipoh.
5. Mohd Shukri Bin Awang (2007/2008). Pejabat Pelajaran Daerah Kerian, Perak.
6. Siti Fairus Bt Mohd Arifin (2007/2008). Pejabat Perpaduan Negara Dan Integrasi Nasional, Kelantan.
7. Doli Anggia Harahap. (2007/2008). Unijaya Resources Sdn. Bhd, Selangor.
8. Nur Shuhada Binti Hamzah (2007/2008). Pejabat Perpaduan Negara Dan Integrasi Nasional, Kelantan.
9. Ezra Shazuin Binti Basrom (2006/2007). Pusat Sumber Pendidikan Negeri Pahang, Pahang.
10. Nor Azura Binti Rani (2006/2007). Pusat Sumber Pendidikan Negeri Pahang, Pahang.
11. Nurul Shakura Binti Abu Talib (2006/2007). Pusat Sumber Pendidikan Negeri Pahang, Pahang.
12. Nor Hasimah Binti Mohamad Morni (2006/2007). Pusat Sumber Pendidikan Negeri Pahang, Pahang.
13. Norhayati Binti Hashim (2005/2006). Telekom Malaysia Berhad. Kedah.
14. Hafiz Bin Muhamad Nasir (2005/2006). Pejabat FAMA Negeri Kedah, Kedah.
15. Mohd Firdaus Bin Che Yahaya (2005/2006). W.R.C. Accounting Services, Kedah.
16. Aini Mastura Binti Azuddin. (2005/2006). Majlis Daerah Baling, Kedah.
17. Niramom A/P E Liam (2005/2006). Cosmopoint Sdn. Bhd, Kedah.
18. Nazirah Binti Ishak (2005/2006). Pejabat Setiausaha Kerajaan Negeri Kedah, Kedah.
19. Ashiroh Binti Ahmad Saudi (2005/2006). M.I.T.C Resources Sdn Bhd, Kedah.
20. Thinagharan A/L Siba Mayum (2005/2006). Pejabat Tenaga Kerja, Kedah.
21. Che Musirah Binti Ibrahim (2005/2006). Pengarah, Kedah.
22. Nurul Ilyani Bt Abdullah Hasnan (2005/2006). Kulim Technology Park

- Corporation Sdn Bhd, Kulim.
23. Norhayati Bt Mt Nor (2005/2006). Hospital Kulim, Kulim.
  24. Shakilawati Binti Md Disa (2005/2006). Cosmopoint Sdn Bhd, Kedah.
  25. Haslina Binti Muhammad Hanafiah (2005/2006). Mixed Action Sdn Bhd, Kedah.

## C. RESEARCH

1. International Grant
  - i. Programme Head
    1. Agile Software Project Monitoring Risk Assessment for Improving Project Performance in Malaysia and Pakistan. (Kod S/O): 14297; MATCHING GRANT; RM10,000; 01/05/2019 – 30/04/2021; Completed.
    2. Erasmus+ Teaching and Training Higher Education-KA107 International Mobility – Universidad de Santiago de Compostela, Spain. (Kod S/O): 333006; Erasmus; RM48,117.60; 01/01/2021 – 31/12/2023; In-Progress.
  - ii. Project Head
    1. Research and Collaboration on A Study on Information Sharing Requirement Model in Encouraging Innovation in Small Medium Enterprises (Kod S/O): 13398; MATCHING GRANT; RM10,000; 14/03/2016 – 13/03/2018; Completed.
    2. Research and Collaboration on Information Sharing Model in Supporting Implementation of E-Government Services Among Government Agencies in Malaysia and Indonesia (Kod S/O): 13399; MATCHING GRANT; RM18,000; 14/03/2016 – 13/03/2018; Completed.
    3. Building Social Research Capacities in Higher Education Institutions In Lao PDR and Malaysia (BRECIL) (Kod S/O): 14055; ERASMUS; RM 452841.72; 01/10/2017 – 30/03/2021; Completed.
    4. Sustainable Development Goals in Journalism Reporting/SDGSJR (Kod S/O): 14654; ERASMUS; RM 490,462.40; 01/10/2020 – 31/12/2022; In Progress.
    5. Geomatics for Disaster Risk Reduction/GEODRR (Kod S/O): 14945; ERASMUS; RM 431817.42; 01/01/2021 – 31/12/2023; In Progress.

## 2. National Grant

### i. Programme Head

### ii. Project Head

1. A Dynamic Agile Model of Software Team Composition For Realizing A High Performance Workforce (Kod S/O): 12818; FRGS; RM65,800; 01/05/2013 – 03/02/2016; Completed.
2. An Impact Study of Malaysian ICT Volunteers (MIV) Programme (Kod S/O): 14792; AgensiLr(DN); RM10,000; 15/07/2021 – 01/04/2022; In Progress.

### iii. Co-Researcher

1. Blockchain and Cryptocurrency Awareness, Trust And Adoption Among Blockchain Communities In Malaysia (Kod S/O):13792; AgensiLr(DN); RM20,000; 01/08/2017 – 28/02/2018; Completed.
2. A Mobile Healthcare Architecture for Monitoring Childrens Obesity Using Persuasive Technology. (Kod S/O): 13047; FRGS; RM91,400; Completed.
3. An Integrated Software Development Model For Improving Programming Skill Among Students In Higher Learning Institution (Kod S/O): 12814; FRGS; RM60,000; 01/05/2013 – 24/08/2017; Completed.
4. A New Holistic Service Oriented Model For Wireless And Sustainable Flood Management: From Monitoring To Emergency Response (Kod S/O): 12491; LRGS; RM918,230; 01/08/2012 – 23/12/2016; Completed.
5. Test Data Generation Method for Dynamic Structural-Path Testing In Automatic Programming Assessment. (Kod S/O): 12821; FRGS; RM66,000; 01/05/2013 – 29/04/2016; Completed.
6. Automated Hybrid Intelligent Agricultural Decision Support For Forecasting Weather And Palm Oil Production (Kod S/O): 19391; IRPA; RM158,451; 01/12/2016 – 09/01/2014; Completed.
7. An Integrated of Route Transportation Planning For Optimizing Risk in Industrial Supply Chain (Kod S/O):13802; FRGS; RM51,304; 15/08/2017 – 14/08/2019; Completed.
8. Knowledge Visualization Model For Externalizing Programming Skill Among Matriculation Student (Kod S/O): 13581; FRGS; RM60,700; 01/08/2016 – 31/01/2019; Completed.
9. Hierarchical Clustering Based on Ant Colony Optimization Algorithm For Halal Compliance (Kod S/O): 14163; TRGS; RM135,700; 2/12/2018 – 11/12/2021; In Progress.



10. An Integrated Blockchain Model for Production Risks Optimization in Poultry Farming Industry (Kod S/O):20114; FRGS; RM80,000; 07/09/2021 – 06/09/2023; In Progress.

### 3. University Grant

#### i. Project Manager / Head

1. An Enhanced Software Project Monitoring Tasks Model of Agile Kanban Method (Kod S/O): 13853; PENJANAAN; RM20,000; 01/10/2017 – 30/09/2018; Completed.
2. An Integrated Software Team Composition Model for Improving Team Performance (Kod S/O): 12867; PBIT; RM69,874; 20/11/2013 – 20/06/2017; Completed.
3. Testing UML Design Model For Web-Based Reservation System (Kod S/O): 11274; FACULTY; RM3,000; 01/07/2004 – 04/05/2005; Completed.
4. Enhancing Digital Services for Research Capacities: A Case of Lao PDR (Kod S/O): 14096; INSTITUT; RM20,000; 01/01/2019 – 31/12/2020; Completed.

#### ii. Co-Researcher

1. Model Ramalan Penggunaan Wi-Fi dan Prestasi Akademik Pelajar UUM (Kod S/O): 13701; KHAS; RM20,000; 01/03/2017 – 28/02/2018; Completed.
2. University Disciplinary Recommendation (U-DIREM) Model Using Case-Based Reasoning Technique (Kod S/O): 13556; PENJANAAN; RM20,000; 24/07/2016 – 23/07/2017; Completed.
3. Knowledge Sharing Model for Pair Programming Practices Using Structural Equation Modelling Approach (Kod S/O): 12271; UNIVERSITY; RM10,000.00; 15/02/2012 – 29/01/2014; Completed.
4. Meninjau Hubungan di Antara SECI Model dan Prestasi Akademik Di Kalangan Pelajar Sarjana Muda UUM (Kod S/O): 12128; UNIVERSITY; RM10,000.00; 02/05/2011 – 23/09/2013; Completed.
5. The Impact of Pair Programming on Program Quality (Kod S/O): 11567; FACULTY; RM5,150; 27/12/2005 – 13/02/2008; Completed.
6. Kajian Keperluan Sistem Pengurusan dan Penyimpanan Data Untuk Pihak Berkuasa Tempatan: Majlis Daerah Kubang Pasu (Kod S/O): 11034; UNIVERSITY; RM20,000; 03/06/2003 – 03/03/2004; Completed.

7. Correctness Assessment of Java Programming Assignment (Kod S/O): 11103; FACULTY; RM3,000; 03/06/2003 – 03/03/2004; Completed.
8. Empirical-based Prediction Model for Assessing Team Performance. DANA UiTM; RM15,000; 15/06/2009 – 15/10/2011; Completed.
9. Human-Centred Computing Research Laboratory (Kod S/O): 14012; RIGS; RM308,460; 15/01/2018 – 14/01/2020; Completed.
10. MyWallet@UUM: A Case Study of UUM Golf Club (Kod S/O): 14040; KERJASAMA (1+3); RM20,000; 15/12/2017 – 14/12/2019; Completed.
11. An Agile - Compliant Performance Appraisal Model For Improving Software Development Model (Kod S/O): 13846; PENJANAAN; RM20,000; 01/10/2017 – 29/03/2019; Completed.

## D. PUBLICATIONS

### 1. Books

#### 1.1 Chapter in Book

##### i. Original Refereed Work (Well-known Publishers)

1. Alaidaros, H., **Omar, M.**, Romli, R. (2019). A theoretical framework for improving software project monitoring task of Agile Kanban method. In F. Saeed, N. Gazem, & F. Mohammed (Eds.), *Advances in Intelligent Systems and Computing* (pp. 1091-1099). Springer International Publishing, Switzerland.
2. Jaafar, J., Gilal, A. R., **Omar, M.**, Basri, S., Aziz, I. A., & Hasan, M. H. (2018). A Rough-Fuzzy inference system for selecting team leader for software development teams. In R. Silhavy, P. Silhavy, & K. Prokopova (Eds.), *Advances in Intelligent Systems and Computing* (pp. 304-314). Springer International Publishing, Switzerland.
3. Salih, A. M., **Omar, M.**, Yasin, A. (2018). Understanding uncertainty of software requirements engineering: A systematic literature review protocol. In M. Kamaludin, S., Ahmad, & N. Ikram (Eds.), *Requirements Engineering for Internet of Things*. APRES 2017 (pp. 164-171). Communications in Computer and Information Science, vol 809. Springer, Singapore.

4. Ahmad, M., Abd Razak, A. H., **Omar, M.**, Yasin, A., Romli, R., Abdul Mutalib, A., & Zahari, A. S. (2015). The Impact of Knowledge Management in Pair Programming on Program Quality, In A. Abraham, A.K. Muda, & Y.-H Choo (Eds.), *Advance in Intelligent System and Computing* (pp. 159-168). Springer International Publishing, Switzerland.
5. **Omar, M.**, & Syed-Abdullah, S.-L. (2015). Finding the effectiveness of software team members using decision tree. In A. Abraham, A.K. Muda, & Y.-H Choo (Eds.), *Advance in Intelligent System and Computing* (pp. 159-168). Springer International Publishing, Switzerland.
6. **Omar, M.**, Syed-Abdullah, S.-L., & Hussein, M. N. (2011). Developing a team performance prediction model: A rough sets approach. In A. A. Manaf (Ed.), *ICIEIS 2011 Communication in Computer and Information Sciences, CCIS Part II* (Vol. 252, pp. 691-705): Springer-Heidelberg.
7. **Omar, M.**, Syed-Abdullah, S.-L., & Yasin, A. (2010). Agile documents: towards successful creation of effective documentation. In A. Sillitti, X. Wang & A. Martin (Eds.), *Agile Processes in Software Engineering and Extreme Programming, 11th International Conference, XP 2010 Lecture Notes in Business Information Processing LNBIP 48* (pp. 196-201). Berlin, Heidelberg: Springer-Verlag.
8. Syed-Abdullah, S.-L., & **Omar, M.** (2010). Educating 'RITA' with XP. In A. Sillitti, X. Wang & A. Martin (Eds.), *Agile Processes in Software Engineering and Extreme Programming, 11th International Conference, XP 2010 Lecture Notes in Business Information Processing LNBIP 48* (pp. 399-400). Berlin, Heidelberg: Springer-Verlag.

#### 1.4 Chapter in Book (Translation)

##### Chapter in Book (Editors)

1. Jamaludin, Z., Zakaria, H. & **Omar, M.** (2018). *The landscape of Computing & Informatics (Research~2016-2017)*: Sintok, Malaysia: School of Computing.

#### 1.5 Text Book (Sprint Print)

2. Katuk, N. & **Omar, M.** (2004). *Pengenalan kepada pengaturcaraan internet*. Sintok, Malaysia: Penerbit Universiti Utara Malaysia.

## 2. Article in Journal (Selected Publications)

### a) Refereed Journal/E-Journal

1. Al-Aidaros, H. A. A., **Omar, M.**, & Romli, R. (2021). A Review on the Methods of Evaluating the New Approaches Proposed in The Agile Context. *International Journal of Computer and Information Technology*. 10(1), 5 - 10.
2. Al-Aidaros, H. A. A., **Omar, M.**, & Romli, R. (2021). The State of the Art of Agile Kanban Method: Challenges and Opportunities. *Independent Journal of Management & Production*. 12(8), 2535 - 2550.

### b) International (SCOPUS/ISI/Equivalent)

1. Abdullah A,A . & **Omar, M.** (2021). Refactoring Techniques For Improving Software Quality: Practitioners' Perspectives. *Journal of Information And Communication Technology*, 20(4), 511 - 539.
2. Al-Aidaros, H. A. A., **Omar, M.**, & Romli, R. (2020). An Improved Model of Agile Kanban Method: Verification Process Through Experts' Review. *International Journal of Agile Systems and Management*. 13(4), 390 - 416.
3. Al-Aidaros, H. A. A., **Omar, M.**, & Romli, R. (2020). An Improved Software Project Monitoring Task Model of Agile Kanban Method: A Practitioners' Perspective. *International Journal on Advanced Science, Engineering and Information Technology*. 10(2), 548 - 554.
4. Al-Aidaros, H. A. A., **Omar, M.**, & Romli, R. (2020). Improving the progress monitoring task of agile kanban method: An enhanced theoretical framework and its implication. *International Journal of Scientific and Technology Research*. 8(1), 611 - 615.
5. Al-Sakkaf, A., **Omar, M.**, & Ahmad, M. (2019). A systematic literature review of student engagement in software visualization: A theoretical perspective. *Computer Science Education*. 1(1), 1 - 27.
6. Gilal, A.R., **Omar, M.**, Gilal, R., Waqas, A., Afridi, S., Jaafar, J. (2019). A Decision Tree Model for Software Development Teams. *International Journal of Innovative Technology and Exploring Engineering*. 8(5S), 241 - 245.
7. Ku-Mahamud, K., **Omar, M.**, Abu Bakar, N, & Muraina, I. (2019). Awareness, trust, and adoption of blockchain technology and cryptocurrency among blockchain communities in Malaysia. *International Journal on Advanced Science, Engineering and Information Technology*, 9 (4). pp. 1217-1222.

8. **Omar, M.**, & Mohamed, A. O. (2019). A Requirements Modeling for E-Learning Management System (eLMS). *International Journal of Innovative Technology and Exploring Engineering*. 8(5S), 132 - 139.
9. Abd. Razak, R., **Omar, M.**, & Ahmad, M. (2018). A Student Performance Prediction Model Using Data Mining Technique. *International Journal of Engineering & Technology*. 7(2.15), 61 - 63.
10. Ahmad, M., **Omar, M.**, Yasin, A., & Abdul Mutalib, A. (2018). Understanding Knowledge Sharing in Pair Programming Practice. *Journal of Engineering and Applied Sciences*. 13(6), 1310 - 1315.
11. Al-Aidaros, H. A. A., **Omar, M.**, & Romli, R. (2018). Towards an Improved Software Project Monitoring Task Model of Agile Kanban Method. *International Journal of Supply Chain Management*. 7(3), 118 - 123.
12. Al-Sakkaf, A.M., **Omar, M.**, & Ahmad, M. (2018). Theoretical Underpinnings of Learner Engagement in Software Visualization System: A Systematic Literature Review Protocol. *International Journal of Engineering & Technology*. 7(3.2), 35 - 39.
13. Gilal, A.R., Jaafar, J., Capretz, L. F., **Omar, M.**, Basri, S., & Abdul Aziz, I. (2018). Finding an effective classification technique to develop a software team composition model. *Journal of Software: Evolution and Process*. 30(1), 1 - 12.
14. Ku-Mahamud, K., Abu Bakar, N., & **Omar, M.** (2018). Blockchain, cryptocurrency and FinTech market growth in Malaysia. *Journal of Advance Research in Dynamical & Control Systems*. 10 (14 SI). 2074-2082.
15. **Omar, M.**, Hashim, N.L., Romli, R., & Katuk, N. (2018). Defining Skill Sets Requirements for Agile Scrum Team Formation. *Journal of Engineering and Applied Sciences*. 13(3), 784 - 789.
16. Qasim, M. M., Ahmad, M., **Omar, M.**, Zulkifli, A.N., & Bakar, J.A.A. (2018). Persuasive technology and mobile healthcare: A critical review. *Journal of Advanced Research in Dynamical and Control Systems*, 10, 1501–1513.
17. Yasin, A., Ibrahim, H., Ahmad, M., **Omar, M.**, & Othman, A.R. (2018). A conceptual model of information sharing in e-government services. *Journal of Telecommunication, Electronic and Computer Engineering*, 10(1–11), 53–57.

18. Al-Aidaros, H. A. A., & **Omar, M.** (2017). Software project management approaches for monitoring work-in-progress: A review. *Journal of Engineering and Applied Sciences*, 12(15), 3851–3857.
19. Al-Sakkaf, A. M., Hashim, N. L., & **Omar, M.** (2017). Using hierarchical cluster analysis to generate clusters of agile practices. *Journal of Telecommunication, Electronic and Computer Engineering*, 9(1–2), 53–56.
20. Daniyal, H., Yasin, A., & **Omar, M.** (2017). Protocol for systematic literature review in legal expert system. *Advanced Science Letters*, 23(5), 4291–4294.
21. Gilal, A. R., Jaafar, J., Abro, A., **Omar, M.**, Basri, S., & Saleem, M. Q. (2017). Effective personality preferences of software programmer: A systematic review. *Journal of Information Science and Engineering*, 33(6), 1399-1416.
22. Gilal, A. R., Jaafar, J., Abro, A., Umrani, W. A., Basri, S., & **Omar, M.** (2017). Making programmer effective for software development teams: An extended study. *Journal of Information Science and Engineering*, 33(6), 1447-1463.
23. **Omar, M.**, & Syed-Abdullah, S.-L. (2017). Exploring the effect of agile methodology and team effectiveness. *Journal of Engineering and Applied Sciences*, 12(16), 4222–4227.
24. Qasim, M. M., Ahmad, M., & **Omar, M.** (2017). Analyzing persuasive mobile healthcare architecture using systematic process design. *Journal of Telecommunication, Electronic and Computer Engineering*, 9(2–11), 77–84.
25. Romli, R., Mahzan, N., Mahmud, M., & **Omar, M.** (2017). Test data generation approaches for structural testing and automatic programming assessment: A systematic literature review. *Advanced Science Letters*, 23(5), 3984–3989.
26. Ahmad, M., Abbas, M., Din, R., **Omar, M.**, & Rahman, Z. A. (2016). The visualization of socialization, externalization, combination, internalization-based internalization process for higher learning institution. *Advanced Science Letters*, 22(5–6), 1218–1221.
27. Ahmad, M., Abdulmajeed, V., **Omar, M.**, Yasin, A., Baharom, F., Mohd, H., & Mohd Darus, N. (2016). Examining the influence of team work factors on team performance for software development in telecommunication industry. *Journal of Telecommunication, Electronic and Computer Engineering*, 8(8), 121–124.

28. Ahmad, M., **Omar, M.**, Yasin, A., Ramli, R., Mahmuddin, M., & Mutalib, A. A. (2016). Knowledge sharing and pair programming: Are they related? *Journal of Telecommunication, Electronic and Computer Engineering*, 8(10), 23–27.
29. Al-Hasnawi, S., Ahmad, M., Al-Janabi, A., Zulkifli, A. N., **Omar, M.**, & Abu Bakar, J. A. (2016). Design of mobile healthcare reminder for chronic diabetes. *Journal of Telecommunication, Electronic and Computer Engineering*, 8(8), 61–64.
30. Gilal, A. R., Jaafar, J., **Omar, M.**, Basri, S., & Aziz, I. A. (2016). Balancing the personality of programmer: Software development team composition. *Malaysian Journal of Computer Science*, 29(2), 145–155.
31. Gilal, A. R., Jaafar, J., **Omar, M.**, Basri, S., & Waqas, A. (2016). A rule-based model for software development team composition: Team leader role with personality types and gender classification. *Information and Software Technology*, 74, 105–113.
32. **Omar, M.**, Hasan, B., Ahmad, M., Yasin, A., Baharom, F., Mohd, H., & Darus, N. M. (2016). Applying fuzzy technique in software team formation based on belbin team role. *Journal of Telecommunication, Electronic and Computer Engineering*, 8(8), 109–113.
33. Qasim, M. M., Ahmad, M., & **Omar, M.** (2016). Conceptual persuasive mobile healthcare architecture for monitoring children's obesity status among parents. *Advanced Science Letters*, 22(5–6), 1291–1294.
34. Romli, R., Abdurahim, E. A., Mahmud, M., & **Omar, M.** (2016). Current practices of dynamic-structural testing in programming assessments. *Journal of Telecommunication, Electronic and Computer Engineering*, 8(2), 153–159.
35. **Omar, M.**, Aljasim, Z. A., Ahmad, M., Baharom, F., Yasin, A., Mohd, H., & Darus, N. M. (2015). Team formation model of selecting team leader: An analytic hierarchy process (AHP) approach. *ARPN Journal of Engineering and Applied Sciences*, 10(3), 1060–1067.
36. **Omar, M.**, Katuk, N., Syed Abdullah, S. L., Hashim, N. L., & Romli, R. (2015). Assessing personality types preferences amongst software developers: A case of Malaysia. *ARPN Journal of Engineering and Applied Sciences*, 10(3), 1499–1504.
37. **Omar, M.**, & Syed Abdullah, S. L. (2015). The impact of agile methodology on software team's work-related well-being. *International Journal of Software Engineering and Its Applications*, 9(3), 123–136.

38. Gilal, A. R., **Omar, M.**, & Sharif, K. I. (2014). A rule-based approach for discovering effective software team composition. *Journal of Information and Communication Technology*, 13(1), 1–20.
39. Rejab, M. M., **Omar, M.**, Ahmad, M., & Ahmad, K. B. (2012). Knowledge internalization in pair programming practices. *Journal of Information and Communication Technology*, 11(1), 163–177.
40. Syed-Abdullah, S.-L., **Omar, M.**, & Idris, M. F. I. M. (2011). Team achievements equality using fuzzy rule-based technique. *World Applied Sciences Journal*, 15(3), 359–363.

c) International

1. Gilal, A. R., Jaafar, J., **Omar, M.**, Basri, S., Aziz, I. A., Khand, Q. U., & Hasan, M. H. (2017). Suitable Personality Traits for Learning Programming Subjects: A Rough Fuzzy Model. *International Journal of Advanced Computer Science and Application*, 8 (8), 153–162.
2. Abed A. M., Z., **Omar, M.**, Ahmad, M., Muhsin, S. (2015). Team Leader Selection by Using an Analytic Hierarchy Process (AHP) Technique. *Journal of Software*, 10(10), 1216-1227.
3. Ahmad, M., Mutalib, A. A., **Omar, M.**, Yasin, A., Romli, (2015). The Impact of Knowledge Management Processes in Pair Programming Practice. *Journal of Network and Innovative Computing*, 3(1), 115 – 127.
4. **Omar, M.**, Syed-Abdullah, S.-L., & Yasin, A. (2011). The impact of agile approach on software engineering teams. *American Journal of Economics and Business Administration*, 3(1), 12-17.
5. **Omar, M.**, Syed-Abdullah, S.-L., & Hussin, N. M. (2012). eTiPs: A rule-based team performance prediction model prototype. *Procedia Technology*, 1, 390-394.
6. **Omar, M.**, Syed-Abdullah, S.-L., Jusoff, K., Yasin, A., & Mohd, H. (2010). Educational approach of refactoring in facilitating reverse engineering. *International Journal on Computer Science and Engineering (IJCSE)*, 2 (3), 564-568.
7. Yasin, A., Puteh, N., Daud, R., **Omar, M.**, & Syed-Abdullah, S.-L. (2010). Product assembly sequence optimization based on genetic algorithm. *International Journal on Computer Science and Engineering (IJCSE)*, 2(3), 3065-3070.



8. Syed-Abdullah, S.-L, **Omar, M.**, Mohd-Nasir, A-H, Che-Latifah, I., & Jusoff, K. (2009). Positive affects inducer on software quality. *Computer Information System*, 2(3), 64-70.

#### Article in Proceedings

- d) Refereed (SCOPUS/ISI/Equivalent)

#### SCOPUS:

1. Sharif, K.I.M., Hassan, M.G. Miraz, M.H., Zulkifly, E., Udin, M., & **Omar, M.** (2021). Factors Affecting Blockchain In Fruit Retail Market: An Unveiling Myth of Blockchain. *Intelligent Manufacturing And Mechatronics: Proceedings Of Symposium 2020*, (), 1095 - 1106.
2. Hassan, M.G., Sharif, K.I.M., Miraz, M.H., Zulkifly, E., Udin, M., & **Omar, M.** (2021). Blockchain-Based Smart Inventory. *Intelligent Manufacturing And Mechatronics: Proceedings Of Symposimm 2020*, (), 1107 - 1117.
3. Fadhel, I. E. I., Idrus, S. S. Z., Abdullah, M. S. Y., Ibrahim, A., A., A, **Omar, M.**, & Ghazi., A. (2020). An integration between information systems engineering and software engineering theories towards engineering a novel instrument and framework of web-based systems success: results of the pilot test. *Journal of physics: conference series*. 2(1529), 1 - 4.
4. Fadhel, I. E. I., Idrus, S. S. Z., Abdullah, M. S. Y., Ibrahim, A., A., A, **Omar, M.**, & Ghazi., A. (2020). An integration between information systems engineering and software engineering theories towards engineering a novel instrument and framework of web-based systems success: hypothesis testing. *Journal of physics: conference series*. 2(1529), 1 - 6.
5. Fadhel, I. E. I., Idrus, S. S. Z., Abdullah, M. S. Y., Ibrahim, A., A., A, **Omar, M.**, & Ghazi., A. (2020). Towards development a novel framework of web-based systems quality engineering by the integration between information systems and software engineering theories: context of higher education. *Journal of physics: conference series*. 2(1529), 1 - 21.
6. Fadhel, I. E. I., Idrus, S. S. Z., Abdullah, M. S. Y., Ibrahim, A., A., A, **Omar, M.**, & Ghazi., A. (2020). A new perspective of web-based systems quality engineering measure by using software engineering theory (iso 25010): an initial study. *Journal of physics: conference series*. 2(1529), 1 - 14.
7. Alaidaros, H., **Omar, M.**, & Romli, R. (2018). Identification of criteria affecting software project monitoring task of Agile Kanban method. In *AIP Conference Proceedings* (Vol. 2016).

8. **Omar, M.**, Ahmad, M., Yasin, A., Ibrahim, H., Ghazali, O., & Khamis, S. (2018). WiFi usage and student performance: Examining the interrelations for UUM students. In *AIP Conference Proceedings* (Vol. 2016).
9. Qasim, M. M., Ahmad, M., **Omar, M.**, Zulkifli, A. N., & Bakar, J.A.A. (2018). A process for developing an instrument to measure the persuasion perspectives of parents using PMCOM app. In *AIP Conference Proceedings* (Vol. 2016).
10. Rejab, M. M., **Omar, M.**, Ahmad, M., & Hassan, S. (2018). Transition to Agile method without Agile-compliant performance appraisal? In *AIP Conference Proceedings* (Vol. 2016).
11. **Omar, M.**, Chin, T. H., & Sharif, K. I. M. (2017). Towards domain modelling in inventory management for humanitarian aid supply chain management. In *Proceedings of the 10th IADIS International Conference on Information Systems 2017, IS 2017* (pp. 211–214).
12. **Omar, M.**, & Khasasi, N. L. A. (2017). Designing an agile scrum team formation model. In *Proceedings of the 10th IADIS International Conference on Information Systems 2017, IS 2017* (pp. 145–154).
13. Qasim, M. M., Ahmad, M., **Omar, M.**, Zulkifli, A. N., & Bakar, J. A. A. (2017). A systematic process for persuasive mobile healthcare applications. In *AIP Conference Proceedings* (Vol. 1891).
14. Gilal, A. R., Jaafar, J., Basri, S., **Omar, M.**, & Abro, A. (2016). Impact of software team composition methodology on the personality preferences of Malaysian students. In *2016 3rd International Conference on Computer and Information Sciences, ICCOINS 2016 - Proceedings* (pp. 454–458).
15. **Omar, M.**, Hasan, B., Ahmad, M., Yasin, A., Baharom, F., Mohd, H., & Darus, N. M. (2016). Towards a balanced software team formation based on Belbin team role using fuzzy technique. In *AIP Conference Proceedings* (Vol. 1761).
16. Gilal, A. R., Jaafar, J., Basri, S., **Omar, M.**, & Tunio, M. Z. (2016). Making programmer suitable for team-leader: Software team composition based on personality types. In *2015 International Symposium on Mathematical Sciences and Computing Research, iSMSC 2015 - Proceedings* (pp. 78–82).
17. Gilal, A. R., Jaafar, J., **Omar, M.**, & Tunio, M. Z. (2014). Impact of personality and gender diversity on software development teams' performance. In *I4CT 2014 - 1st International Conference on Computer, Communications, and Control Technology, Proceedings*.

18. Katuk, N., **Omar, M.**, & Halim, N. A. (2014). Improving engagement in hypermedia learning: A design for navigation support. In *ACM International Conference Proceeding Series* (Vol. 04-06-Dece, pp. 40-43).
19. **Omar, M.**, & Syed-Abdullah, S.-L. (2010). Identifying effective software engineering (SE) team personality types composition using rough set approach. In *Proceedings 2010 International Symposium on Information Technology - System Development and Application and Knowledge Society, ITSIM'10* (Vol. 3, pp. 1499-1503).
20. **Omar, M.**, Syed-Abdullah, S.-L., & Hussin, N. M. (2010). Analyzing personality types to predict team performance. In *CSSR 2010 - 2010 International Conference on Science and Social Research* (pp. 624-628).

ISI:

1. Gilal, R., **Omar, M.**, Jaafar, J., & Sharif, K. I. M. (2017). Software Development Team Composition: Personality Types of Programmer and Complex Networks. 6th International Conference on Computing & Informatics, KLIA, Malaysia, 153-159.
2. Ku-Aman, K., M. & **Omar, M.** (2015). *Monitoring Task Performance Using Value Stream Mapping (VSM) Technique*. 5th International Conference on Computing & Informatics (ICOICI2015), Istanbul, Turkey, 359 - 365.
3. Zaibon, S. B., Ahmad, **M.**, **Omar, M.**, Zainol, A. (2015). Knowledge Sharing Process for Pair Programming Practice among University Students. 5th International Conference on Computing and Informatics (ICOICI), Turkey, 604-610.
4. Katuk, N., Zakaria, N.H., **Omar, M.**, & Romli, R. (2014). Does Personality Influence Web-based Learning Performance of Novice Programmers? A Preliminary Study. *Proceeding of the Knowledge Management International Conference (KMICe) 2014*, Langkawi, Malaysia, 196 - 201.
5. Mahmud, M., Yasin, A., & **Omar, M.** (2014). *The Evolution of Geography Markup Language (GML) Compression Model*. *Proceeding of the Knowledge Management International Conference (KMICe) 2014*, Langkawi, Malaysia, 714 - 720.
6. Nordin, N., Yasin, A., & **Omar, M.** (2014). *Rule Based ETL (RETL) Approach For Geo Spatial Data Warehouse*. *Proceeding of the Knowledge Management International Conference (KMICe) 2014*, Langkawi, Malaysia, 567 - 671.

7. **Omar, M.**, & Syed-Abdullah, S-L. (2013). Agile Practices: A Cognitive Learning Perspective. *4<sup>th</sup> International Conference on Computing & Informatics (ICOCI2013)*, Sarawak, Malaysia, 253 - 258.
8. Gilal, A. R., **Omar, M.**, & Sharif, K.I.M. (2013). Discovering Personality Types and Diversity based on Software Team Roles. *4<sup>th</sup> International Conference on Computing & Informatics (ICOCI2013)*, Sarawak, Malaysia, 259 - 264.
9. Md. Rejab, M., **Omar, M.**, Ahmad, M., & Ahmad, K. B. (2011). Pair Programming in Inducing Knowledge Sharing. *International Conference on International Conference on Computing and Informatics, Bandung, Indonesia (ICOCI2011)*, 251-258.
10. **Omar, M.**, Syed-Abdullah, S.-L. & Yasin, A. (2010). Adopting Agile Approach: A Case in Malaysia. *Proceeding of Knowledge Management International Conference 2010 (KMICe2010)*, Kuala Terengganu, Malaysia, 544 - 549.
11. Syed-Abdullah, S-L. & **Omar, M.** (2009). Extreme Programming and Its Positive Affect on Software Engineering Teams. *2<sup>nd</sup> International Conference on Computing & Informatics (ICOCI2009)*, Kuala Lumpur, Malaysia, 27-31.
12. **Omar, M.**, Romli, R. & Hussain, A. (2008). Automated Tool to Assess Pair Programming Program Quality. *Proceeding of Knowledge Management International Conference 2008 (KMICe2008)*, Langkawi, Malaysia, 516 - 521.

e) Non-Refereed

1. **Omar, M.**, & Md Rejab, M. (2007). Designing Customized Problem-Based Learning (PBL) Course Work Evaluation System. *Proceedings of the 1<sup>st</sup> International Malaysian Educational Technology Convention*, Johor Bahru, Malaysia, 268-275.
2. Romli, R., Hibadullah, C.F. & **Omar, M.** (2004). Correctness Assessment of Java Programming Assignment. *Prosiding Seminar Kebangsaan Sosio Ekonomi & IT ke-2, Jilid 2*, 591-600.

3. Other Publication/Editing

i. Encyclopedia Entry

1. Penyatuan. *Ensiklopedia Pengurusan*.
2. Penyertaan (entity). *Ensiklopedia Pengurusan*.
3. Rangka kerja perisian. *Ensiklopedia Pengurusan*.
4. Risiko perisian. *Ensiklopedia Pengurusan*.
5. Kepastian kualiti perisian. *Ensiklopedia Pengurusan*.

- ii. Article in Mass Media /Bulletin/Newspaper
  1. Omar, M. (2016). Towards an Integrated Software Engineering (SE) Team Composition Model for Improving Project Performance. *Collection of Slides. Asean-Japan Research Forum*. Universiti Utara Malaysia, 160-169.
  2. Omar, M. (2016). Academic Reputation: Where Are We Now? *Buletin Kualiti*, 5(2), 13.
- iii. Creative Work

## E. SEMINAR AND CONSULTATION

1. Seminar
  - 1.1 International
    - i. Main Speaker
      1. Dealing with Requirements Uncertainty for a Sustainable Software Evolution Ecosystem; *2<sup>nd</sup> IEEE International Conference on Computing, Mathematics and Engineering (iCoMET 2019)*; Sukkur, Pakistan; 30<sup>th</sup> -31<sup>st</sup> January 2019.
      2. Academic Opportunities in Computing Education; *Seminar on Technical Awareness on Computing Education and Future Directions in Logistics Education*; Karachi, Pakistan; 1<sup>st</sup> February 2019.
    - ii. Conference Chairman / Institutional Panel
      1. Conference Chair; The International Conference on Advanced Social Sciences & Science Technology Knowledge (IC-CANTIK); Krabi, Thailand; 10<sup>th</sup> – 11<sup>th</sup> October 2017.
      2. Session Chair; 10<sup>th</sup> IADIS International Conference on Information Systems 2017; Budapest, Hungary; 10<sup>th</sup> -12<sup>th</sup> April 2017.
      3. Pengerusi Sesi Selari; Knowledge Management International Conference & Exhibition 2004 (KMICE 2004); Penang, Malaysia; 14<sup>th</sup> - 15<sup>th</sup> February 2004.
    - iii. Panel Member/Invited Speaker
      1. Towards an Integrated Software Engineering (SE) Team Composition Model for Improving Project Performance; *ASEAN-Japan Research Forum*; Osaka, Japan; 11<sup>th</sup> May 2016.

iv. Writer/Presenter

Presenter:

1. Krishnasamy, H., **Omar, M.**, Ahmad, M., Yasin, A., Ibrahim, H., Soulinavong, L., & Vongsouangtham, B. (2020). The Needs of Information and Communication Technology (ICT) Tools for Research Development: A Case of Laos (2020). *6<sup>th</sup> International of Soft Science Conference (ISSC 2020)*, Sintok, Kedah, Malaysia.
2. **Omar, M.**, Alaidaros, H., & Romli, R. (2018). An Improved Software Project Monitoring Task Model of Agile Kanban Method: A Practitioners' Perspective (2018). *11<sup>th</sup> Malaysian Software Engineering Conference (MySEC 2018)*, Kuching, Malaysia.
3. Alaidaros, H., **Omar, M.**, & Romli, R. (2018). Identification of criteria affecting software project monitoring task of Agile Kanban method. *3<sup>rd</sup> International Conference on Applied Science and Technology (ICAST'18)*, Penang, Malaysia.
4. **Omar, M.**, Ahmad, M., Yasin, A., Ibrahim, H., Ghazali, O., & Khamis, S. (2018). WiFi usage and student performance: Examining the interrelations for UUM students. *3<sup>rd</sup> International Conference on Applied Science and Technology (ICAST'18)*, Penang, Malaysia.
5. Gilal, R., **Omar, M.**, Jaafar, J., & Sharif, K. I. M. (2017). Software Development Team Composition: Personality Types of Programmer and Complex Networks. *6th International Conference on Computing & Informatics, KLIA, Malaysia*, 153-159.
6. **Omar, M.**, Chin, T. H., & Sharif, K. I. M. (2017). Towards domain modelling in inventory management for humanitarian aid supply chain management. *10th IADIS International Conference on Information Systems 2017, IS 2017, Budapest, Hungary*, 211-214.
7. **Omar, M.**, & Khasasi, N. L. A. (2017). Designing an agile scrum team formation model. *10th IADIS International Conference on Information Systems 2017, IS 2017, Budapest, Hungary*, 145-154.
8. **Omar, M.**, Hasan, B., Ahmad, M., Yasin, A., Baharom, F., Mohd, H., & Darus, N. M. (2016). Towards a balanced software team formation based on Belbin team role using fuzzy technique. *International Soft Science Conference (ISSC 2016)*, Langkawi, Malaysia, 1-5.
9. Al-Aidaros, H.A.A., & **Omar, M.** (2015). Requirements Modeling for University e-Ranking Dashboard System (e-RDS). *2<sup>nd</sup> Advancement on Information Technology International Conference 2015 (ADVCIT 2015)*, Krabi, Thailand, 1-6.
10. Abdulrahman, B.H., **Omar, M.**, Ahmad, M., & Ahmed, V.A. (2015). An Analysis of Belbin Team Roles in Software Engineering Team. *2<sup>nd</sup> Advancement on Information Technology International Conference 2015 (ADVCIT 2015)*, Krabi, Thailand, 1-6.
11. **Omar, M.**, Khasasi, N., Syed Abdullah, S. L., Hashim, N. L., Romli, R., & Katuk, N. (2015). Defining Skill Sets Requirements for Agile Scrum Team Formation. *2<sup>nd</sup> Advancement on Information Technology International Conference 2015 (ADVCIT 2015)*, Krabi, Thailand, 1-6.

12. **Omar, M.**, Aljasim, Z. A., Ahmad, M., Baharom, F., Yasin, A., Mohd, H., & Darus, N. M. (2014). Team formation model of selecting team leader: An analytic hierarchy process (AHP) approach. *Advancement on Information Technology International Conference 2014 (ADVCIT 2014)*, Bandung, Indonesia, 1060–1067.
13. **Omar, M.**, Katuk, N., Syed Abdullah, S. L., Hashim, N. L., & Romli, R. (2014). Assessing personality types preferences amongst software developers: A case of Malaysia. *Advancement on Information Technology International Conference 2014 (ADVCIT 2014)*, Bandung, Indonesia, 1499–1504.
14. **Omar, M.**, & Syed-Abdullah, S.-L. (2014). Finding the effectiveness of software team members using decision tree. *Advances in Intelligent Systems and Computing - 2014 Fourth World Congress on Information and Communication Technologies (WICT 2014)*, Malacca, Malaysia, 159-168.
15. **Omar, M.**, & Syed-Abdullah, S.-L. (2013). Agile Practices: A Cognitive Learning Perspective. *4<sup>th</sup> International Conference on Computing & Informatics (ICOCI2013)*, Sarawak, Malaysia, 253 - 258.
16. Gilal, A. R., **Omar, M.**, & Sharif, K.I.M. (2013). Discovering Personality Types and Diversity based on Software Team Roles. *4<sup>th</sup> International Conference on Computing & Informatics (ICOCI2013)*, Sarawak, Malaysia, 259 - 264.
17. **Omar, M.**, Syed-Abdullah, S.-L., & Hussein, M. N. (2011). Developing a team performance prediction model: A rough sets approach. *International Conference on Informatics Engineering & Information Science (ICIEIS2011)*, Kuala Lumpur, Malaysia, 691-705.
18. **Omar, M.**, Syed-Abdullah, S.-L., & Yasin, A. (2010). Agile documents: towards successful creation of effective documentation. *11<sup>th</sup> International Conference on Agile Software Development, XP 2010*, Trondheim, Norway, 196-201.
19. Syed-Abdullah, S.-L., & **Omar, M.** (2010). Educating 'RITA' with XP. *11<sup>th</sup> International Conference on Agile Software Development, XP 2010*, Trondheim, Norway, 399-400.
20. **Omar, M.**, & Syed-Abdullah, S.-L. (2010). Identifying effective software engineering (SE) team personality types composition using rough set approach. *International Symposium on Information Technology - System Development and Application and Knowledge Society, ITSIm'10*, Kuala Lumpur, Malaysia, 1499–1503.
21. **Omar, M.**, Syed-Abdullah, S.-L., & Hussin, N. M. (2010). Analyzing personality types to predict team performance. *International Conference on Science and Social Research (CSSR 2010)*, Kuala Lumpur, Malaysia, 624–628.
22. **Omar, M.**, Syed-Abdullah, S.-L. & Yasin, A. (2010). Adopting Agile Approach: A Case in Malaysia. *Proceeding of Knowledge Management International Conference 2010 (KMICe2010)*, Kuala Terengganu, Malaysia, 544 - 549.
23. **Omar, M.**, Romli, R. & Hussain, A. (2008). Automated Tool to Assess Pair Programming Program Quality. *Proceeding of Knowledge*

Management International Conference 2008 (KMICe2008), Langkawi, Malaysia, 516-521.

24. **Omar, M.**, & Md Rejab, M. (2007). Designing Customized Problem-Based Learning (PBL) Course Work Evaluation System. 1<sup>st</sup> International Malaysian Educational Technology Convention, Johor Bahru, Malaysia, 268-275.

## 1.2 National

### i. Main Speaker

Introduction to Big Data. Seminar Artificial Intelligence (AI) Fundamentals: Towards Data Analytics. Institut Penyelidikan Perikanan (FRI) Batu Maung, Penang; 12 November 2019.

### ii. Conference Chairman / Institutional Panel

1. Pengerusi Sesi Selari. Rural ICT: Technology-related Issues. Universiti Utara Malaysia; 21 November 2007.
2. Pengerusi Sesi Selari; Seminar Hasil Penyelidikan Sektor Pengajian Tinggi ke-3, Kementerian Pendidikan Malaysia. Universiti Utara Malaysia; 2-3 Julai 2013.
3. Pengerusi Sesi Selari. Seminar Kebangsaan Sosio-Ekonomi dan IT ke-3; Perlis, Malaysia; 21 Ogos 2005.

### iii. Panel Member/Invited Speaker

1. The Influence of Social Psychology and Group Dynamics on Software Engineering Team; *Global Academic Conference (GLOAC 2017)*; Penang, Malaysia; 23th March 2017.
2. Ranking Dunia: Strategi Menjadi Universiti Terbaik Dunia; *Seminar Membina Daya Saing Organisasi*; Perak, Malaysia; 3 Mac 2016.

### iv. Writer/Presenter

#### Presenter:

1. **Omar, M.**, Sharif, K.I.M., & Mohamad, A.A.S (2006). Teknologi Komunikasi Mudah Alih Menerusi Sistem Pengurusan Pengangkutan Petrol. *Seminar Kebangsaan Komunikasi ke-3*, Penang, Malaysia, 1-6.
2. **Omar, M.** & Katuk, N. (2005). Pengujian model rekabentuk UML bagi aplikasi berasaskan web. *Seminar Kebangsaan Sosio-Ekonomi dan IT ke-3*, Perlis, Malaysia, 1-6.



## **F. ACADEMIC RECOGNITION AND LEADERSHIP**

1. Committee Member - Professional/Academic/Board of Directors  
*(Please provide details)*
  - i. International
  - ii. National
2. Assessor/Technical Committee  
*(Please provide details)*
  - i. International
    1. Paper Reviewer for SoftwareX Journal; Elsevier; February 2019.
    2. Editorial Advisory Board; Human Factors in Global Software Engineering; IGI Global; 2018.
    3. Paper Reviewer for Information and Software Technology Journal; Elsevier; September 2018.
    4. Paper Reviewer for Journal of King Saud University - Computer and Information Sciences; Elsevier; April 2018.
    5. Technical Program Committee Member of International Conference on Computing and Mathematical Sciences – ICCMS 2017; 25/02/2017 – 26/02/2017.
    6. Technical Committee Member of the 6<sup>th</sup> International Conference on Computing and Informatics 2017 (ICOCI 2017); 2017.
    7. Paper Reviewer for International Symposium on Research in Innovation and Sustainability 2017 (ISoRIS'17); 18/07/2017-19/07/2017.
    8. Editorial Advisory Board; Emerging Innovations in Agile Software Development; IGI Global; 2016.
    9. Technical Committee Member of the 5<sup>th</sup> International Conference on Computing and Informatics 2015 (ICOCI 2015); 2015.
    10. Paper Reviewer for International Symposium on Research in Innovation and Sustainability 2014 (ISoRIS'14); 15/10/2014-16/10/2014.
    11. Technical Committee Member of the Knowledge Management International Conference (KMICE'08); 2008.
  - ii. National
    1. Jury; Teaching Innovation Competition 2018 (PIP); 14/08/2018.
    2. Jury; Innovative Research, Invention and Application Expo 2017 (I-RIA 2017); 08/05/2017 – 09/05/2017.
    3. Juri; Innovative Research, Invention and Application Expo 2016 (I-RIA 2016); 31/05/2016 – 01/06/2016.
    4. Juri. Innovative Research, Invention and Application Expo 2015 (I-RIA 2015); 01/06/2015-02/06/2015.
    5. Judges for the UICF Business Idea Poster Exhibition and Competition; 22/08/2006.
    6. Juri Pertandingan Projek Akhir IT Skills Awareness Day Sains Gunaan, Kolej Sastera & Sains; 10/04/2008.
    7. Penilai Kertas Kerja untuk National Conference on Rural ICT

- Development 2013; 25/06/2013-27/06/2013.
8. Penilai; Mini Kolokium Penyelidikan Pasca Siswazah UITM, Perlis; 11/01/2011.
  9. Penilai abstrak Penyelidikan untuk Seminar Sosio-Ekonomi & IT ke-2; 2004.
  10. Penilai Ensiklopedia Pengurusan. Pencetusan. Universiti Utara Malaysia; 2004.
  11. Penilai Ensiklopedia Pengurusan. Konstruktor. Universiti Utara Malaysia; 2004.

University Level:

1. Penilai Laporan Akhir Penyelidikan; A Model For Automated Test Case Generation Using State Chart Diagram; Pusat Pengajian Pengkomputeran; 06/08/2017.
  2. Panel Penilai Pembentangan Laporan Akhir Kajian Kes; The Switch From Zone To UUM Online Learning: Are The Changes Substantial Enough?; Institut Penyelidikan Pengurusan dan Perniagaan (IMBRe);15/05/2017.
  3. Panel Penilai Kertas Cadangan Penyelidikan Geran Non-PI UUM 2016; Pusat Pengajian Pengkomputeran; 07/01/2016;
  4. Panel Penilai Pembentangan Proposal Kajian Kes; The Switch From Zone To UUM Online Learning: Are The Changes Substantial Enough?; Institut Penyelidikan Pengurusan dan Perniagaan (IMBRe);09/06/2015.
  5. Panel Penilai Sesi Pembentangan Proposal Geran FRGS Peringkat Jabatan; Asia Pacific Centre of Excellence for Rural ICT Development (ITU-UUM); 04/08/2013.
  6. Penilai Proposal Permohonan FRGS Fasa 2/2013; Pusat Pengajian Pengkomputeran; 31/07/2013.
  7. Panel Penilai Pembentangan Laporan Akhir Geran Universiti; Embarking Service-Oriented Architecture (SOA) Into Student Information Systems; Institut Penyelidikan Pengkomputeran dan Teknologi; 06/01/2013.
  8. Panel Penilai Pembentangan Laporan Akhir Projek Penyelidikan Dibawah Geran ITU-UUM; Business Intelligence for Sustainability of the Malaysian Telecentres; 11/12/2012.
  9. Penilai Laporan Akhir Penyelidikan; A Model for Online Practicum Student Placement (OPSP); Pusat Pengajian Pengkomputeran; 2007.
  10. Penilai Laporan Akhir Penyelidikan; Model Keperluan Bagi Capaian Maklumat Berasaskan Teks Bebas Dalam Aplikasi Pangkalan Data; Pusat Pengajian Pengkomputeran; 2006.
4. Editorial Board – Journal/Magazines  
(Please list position, name of journal and duration)
- i. International
    1. Editorial Board Member of Journal of Information and Communication Technology (JICT). 01/07/2017 – 31/12/2021.

2. Editorial Board of Journal of Information System and Technology Management (JISTM). 01/07/2017 – 30/06/2022.

ii. National

5. Assessor/Examiner

i. External Examiner for Thesis

*(Please list name of students, year, project title, in institution)*

a) Ph.D

1. Ali Mehimed Ahmed Ireda (143914075). 2020. Acceptance Model of Internet of Things Among Students. Infrastructure University Kuala Lumpur (IUKL).

b) DBA

c) Masters

ii. Internal Examiner for Thesis

*(Please list name of students, year, project title, in institution)*

a) Ph.D

2. Ayad Hameed Mousa (94183). 2016. Data Virtualization Design Model For Near Real Time Decision Making In Business Intelligence Environment. Universiti Utara Malaysia.

Ph.D Proposal Defence Examiner:

1. Murtaja Ali Saare Almzrae (902649). 2019. Adoption Factors Model for Mobile Health Application for Older Adults.
2. Najia Saher (901149). 2018. Continuous Requirement Change Management Model for Sustainable Software Development in Agile Software Development. Universiti Utara Malaysia
3. Hussin Ahmad Abdelkader (900197). 2018. A Method to Design a Computer – Readable Software Requirements Specification Template. Universiti Utara Malaysia
4. Yasir Dawood Salman (94756). 2015. An Improved Algorithm for Automatic Test Case Generation from UML State Chart Diagram. Universiti Utara Malaysia.
5. Shelena a/p Soosay Nathan (900538). 2015. Usability Evaluation Model for Hearing- Impaired Mobile Application. Universiti Utara Malaysia.
6. Raha Othman (94737). 2015. Public Private Collaboration Model for Geospatial Data Sharing in Spatial Data Infrastructure. Universiti Utara Malaysia.
7. Hamisu Ibrahim Abu Bakar (94430). 2014. Usability Evaluation Model for Mobile Banking Application Interface. Universiti Utara Malaysia.
8. Atyaf Sami Noori (93274). 2013. Service Quality Evaluation Model for

the Effectiveness of Users' Loyalty in E-Government. Universiti Utara Malaysia.

Masters (Dissertation):

1. Talib Muhsen Elebe (816296). 2017. Data modeling for web-based mobile tracking system of internally displaced person during conflict. Universiti Utara Malaysia.
2. Mohammed Abbas Naemah (814913). 2016. Design Guidelines for Arabic Mobile Learning Application Based On Cognitive Theory Of Multimedia Learning. Universiti Utara Malaysia.
3. Enas Fadhil Abdul Ameer (815058). 2015. An Empirical study of Requirement Management Practices in the Malaysian Software Industry. Universiti Utara Malaysia.
4. Adil Abdullah Abd Alhussein (815654). 2015. The design principles of edutainment system for autistic children with communication difficulties. Universiti Utara Malaysia.
5. Md. Shahadath Sarker (816283). 2015. Test Data Generation for Dynamic Structural Testing in Automatic Programming Assessment. Universiti Utara Malaysia.
6. Salam Abdulabbas Ghanim (809909). 2014. Student success model in programming course: A case study in UUM. Universiti Utara Malaysia.
7. Nur Farah Marzuki (81556). 2013. Conceptual Model for Future Paddy Farm Management Information System. Universiti Utara Malaysia.

Masters (Project):

8. Najdawati Mohd Fadzil (819471). 2017. A Requirement Model of Requirement Change Management System for ICT Centre, UNIMAP. Universiti Utara Malaysia.
9. Anas Farhan Tajudin (819654). 2017. Automated Test Data Generation for Dynamic- Structural Testing in Automatic Programming Assessment: Tool Implementation and Its User Experience Evaluation. Universiti Utara Malaysia.
10. Mazriyatul Adawiyah Maadin (818609). 2016. Requirement Model for Kolej Teknologi Darulnaim (KTD) E-Convocation Management System. Universiti Utara Malaysia.
11. Ahmed Derow Isak (816147). 2016. Requirement Model of An Online System Communication System for International Student's Visa and CIAC UUM. Universiti Utara Malaysia.
12. Mohammed Naemah Hammood (815089). 2016. A Systematic Literature Review on Job Matching Methods in Crowdsourcing Application. Universiti Utara Malaysia.
13. Asmalinda Adnan (814908). 2015. Interface Modelling for Low Vision Children to Influence Memory Performance. Universiti Utara Malaysia
14. Nadia Hasidah Mat Nayan (816815). 2015. The Requirement Model

for Improved Open -id SSO Authentication to Thwart Phishing Attack. Universiti Utara Malaysia.

15. Anas Bassam Za'al Al-Badareen. 2008. Data Integration: Case Study for UUM ASIS Student's Marks. Universiti Utara Malaysia.
16. Mohammed Fahed Tayfour. 2008. Time and Attendance System. Universiti Utara Malaysia.
17. S. Mariam Omar. 2007. Requirement Model for Buddy Support System. Universiti Utara Malaysia.
18. Ajjaly Alsaieh Saad. 2007. Web-Based Inventory Tracking System for FTM. Universiti Utara Malaysia.
19. Zakiah Osman. 2006. Technology Acceptance Model (TAM) in Electronic Labour Exchange. Universiti Utara Malaysia.
20. Wisam H Muragaa. 2006. Customer Relationship Management Model for Agriculture Business. Universiti Utara Malaysia.
21. Ala. A. Abdul Razeq. 2006. Online Job Recruitment Model for UUM. Universiti Utara Malaysia.
22. Zakiah Osman. 2006. Technology Acceptance Model (TAM) in Electronic Labour Exchange. Universiti Utara Malaysia.
23. Abdul Hakin M Dhehab. 2006. Identifying Factors Affecting Doctors to Adopt Internet Based Healthcare Application Using Extended TAM. Universiti Utara Malaysia.
24. Hafidzoh Hashim. 2006. Requirement Model for Printing Management System. Universiti Utara Malaysia.
25. Kiong Siew Wai. 2006. Development of Digital City: Case Study of Bandaraya Alor Star. Universiti Utara Malaysia.
26. Muhammad Faizal Kamran (84594). 2005. Reforming Web-Baed Entrepreneur Application Interface: A Case Study of Dewan Perniagaan Melayu Malaysia Kedah (DPMMK). Universiti Utara Malaysia.
27. Hashiroh Hussain (83215). 2004. E-Magazines in Boarding School Libraries: Gathering Design Requirements. Universiti Utara Malaysia.
28. Zainab Othman. 2004. The Functionalities of Online Ordering Book System. Universiti Utara Malaysia.

6. Assessor of Article in Academic Journal

*(Please list editor, year/duration, title and name of journal/published)*

1. Zulkifli Mohamed Udin. 2017. The Influence of Cognitive Factors on Information Technology Competencies Among Accountants In Civil Conflict Environment: The Iraqi Perspective Journal of Information System and Technology Management (IJSTM).
2. Ku Ruhana Ku Mahamud. 2017. Framework for Security Assessment of e-Governance Systems in Developing Nations Case Study from India. Journal of Information Technology (JICT).
3. Ku Ruhana Ku Mahamud. 2013. Software Distributed Shared Memory Cost Metrics. Journal of Information Technology (JICT).

7. External Examiner/Committee Member for Promotion, Accreditation, Research, Quality and Curriculum.  
*(Please provide details)*
1. Pakar Penilai PhD (Pendidikan Teknologi Maklumat). 2016. Model Kompetensi Guru Pengaturcaraan. Universiti Pendidikan Sultan Idris (UPSI).
  2. Committee Members. 2015. The 7<sup>th</sup> International Conference on Internet (ICONI 2015). Organized by Korean Society for Internet Information (KSII), Universiti Teknologi Malaysia (UTM) and Computer Society of the Republic China (CSROC). Kuala Lumpur, Malaysia.
  3. Committee Members. 2013. Agile Symposium. Organized by Universiti Teknologi Malaysia (UTM) and Malaysian Software Engineering Interest Group (MySEIG). Melaka, Malaysia.
  4. Pemeriksa Kertas Jawapan Peperiksaan Akhir PKPG di Institut Perguruan Darulaman (IPDA). Kursus TA 1013 Pengaturcaraan Awalan. Semester Pertama 2004/2005.
  5. Penyelia. Kursus Bagi Program Kawalselia Diploma Teknologi Maklumat UUM-IPTS. Kursus TA114 Pengaturcaraan I. Semester Kedua 2004/2005.
8. Awards for Innovation/Academic Award  
*(Please list award, name, year, level, awarding body and country)*
- i. International
    1. Thomas Carskadon Award. 2017. A Rule-Based-Model for Software Development Team Composition: Team Leader Role with Personality Types and Gender Classification. Journal Psychological Type – Research Digest (JPT-RD).
  - ii. National
 

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  - iii. University Level
    1. Anugerah Kesarjanaan Harapan. 2018. Universiti Utara Malaysia.
    2. Anugerah Prestasi Cemerlang. 2017. Universiti Utara Malaysia.
    3. Anugerah Penulisan Jurnal Terbaik. 2016. Pusat Pengajian Pengkomputeran, Universiti Utara Malaysia.
    4. Fasilitator Terbaik. 2016. Mini Konvensyen Kumpulan Inovatif dan Kreatif (KIK). Universiti Utara Malaysia.
    5. Pengajaran Terbaik. 2015. Pusat Pengajian Pengkomputeran, Universiti Utara Malaysia.
    6. Tempat Ketiga. 2016. Anugerah Meja Staf Terbaik 5s. Institut Pengurusan Kualiti, Universiti Utara Malaysia
    7. Anugerah Kecemerlangan Khas. 2015. Universiti Utara Malaysia.
    8. Pertama. Anugerah Penyelidikan Terbaik Pertama. Flood Management: Impact Reduction and Relief. 2014. Anugerah Inovasi, Penyelidikan &

- Penerbitan (AIPPen'14). Universiti Utara Malaysia.
9. Anugerah Penyelidik Harapan. 2013. Pusat Pengajian Pengkomputeran, Universiti Utara Malaysia.
  10. Anugerah Prestasi Cemerlang. 2008. Universiti Utara Malaysia.
  11. Anugerah Prestasi Cemerlang. 2004. Universiti Utara Malaysia.

## 10. Exhibition Award

### International

1. Bronze. Excellent and Creative Efforts, BMI Percentile Monitor for Monitoring Children's BMI for Parents. 2014. Seoul International Invention Fair 2014. Seoul, Korea.
2. Gold. BMI Percentile Monitor for Monitoring Children's. 2014. 25<sup>th</sup> International Invention, Innovation & Technology Exhibition. Kuala Lumpur, Malaysia.

### National

1. Silver. A Student Performance Prediction Model Using Data Mining Technique. A Case Study at KPTM. Innovative Research, Invention and Application Expo 2017 (i-RIA 2017). Universiti Utara Malaysia.
2. Bronze. Secondies: The Second Hand Item Selling System. 2008. Malaysian Association of Research Scientists (MARS). Kuala Lumpur, Malaysia.

### State

1. Silver Award. eTiPs: Teams Performance Prediction Model. 2011. The Inventions, Innovations, and Design, 2011 (IID2011). Universiti Teknologi MARA Perlis.