Associate Professor Dr. Sa'adah Hassan

http://profile.upm.edu.my/saadah/en.html

Personal Details

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                    INFORMATION TECHNOLOGY,
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                    MALAYSIA
Designation: Associate Professor
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Citizenship: Malaysian

Academic Qualification

- PhD, University of Ulster, UK, 2008
- Master of Software Engineering, Universiti Malaya, 2003
- Bac. of Comp. Science, Universiti Teknologi Malaysia, 1999
- Diploma in Comp. Science, Institut Teknologi MARA, 1992

Professional Certificate

- Certified Professional Requirements Engineering (CPRE), 2010
- TRIZ Level 2

Current Professional Membership

- International Association of Engineers (2015)
- Special Interest Group on Human Computer Interaction (SIGHCI) (2013)
- The Society of Digital Information and Wireless Communication (SDIWC) (2013)
- Malaysian Software Engineering Research Interest Group (MySEIG) (2010)
- The Malaysia TRIZ Innovation Association (myTRIZ) (2010)
- UK Systems Society (UKSS) (2007)

Current Administrative Responsibilities

- Committee for Faculty Curriculum (2017-current)
- Committee for BSE Curriculum (2017-current)
- Committee for MOOC (2018-current)
- Committee for IR4.0 Task Force (2019-current)

Previous Employment *(employment for 1 year and above)*

Oct 1992 – May 1997   Computer Programmer, Pusat Sistem Maklumat Bersepadu, ITM, Shah Alam, Selangor

Teaching Experience

Course	Level	Academic Year
SSK3117/Data Structures	Undergraduate	2012/2013, 2013/2014
SIM3301/Software Requirements Engineering	Undergraduate	2004/2005, 2010/2011, 2011/2012, 2012/2013, 2013/2014, 2014/2015, 2015/2016
SSK3207/Computer Organization and Assembly Language	Undergraduate	2003/2004, 2008/2009, 2010/2011
GSM5170/Management	Postgraduate/MBA	Trimester 2010/2011, Trimester

Information Systems	/MIT	2011/2012, Trimester 2012/2013, Trimester 2013/2014
SSK3100/Programming 1	Undergraduate	2010/2011
SIM4307/Object-Oriented Analysis and Design	Undergraduate	2008/2009
SIM3303/Systems Analysis and Design	Undergraduate	2004/2005, 2008/2009
SIM3302/Software Design and Testing	Undergraduate	2004/2005
SIM5112/Object-Oriented Software Development	Postgraduate/ Master of Computer Science	2012/2013, 2013/2014, 2014/2015, 2015/2016
SIM3304/SSE3304 Software Design	Undergraduate	2014/2015, 2015/2016, 2016/2017, 2017/2018
SIM3301/SSE3301/ Software Requirements Engineering	Undergraduate	2015/2016, 2016/2017, 2017/2018
SSE4350/ Software Architecture	Undergraduate	2018/2019, 2019/2020
SSE5302 Requirements Engineering	Postgraduate/ Master of Software Engineering	2016/2017, 2017/2018

Student Supervisions

Program	Status	As Chairman	As Member
PhD	Graduated	4	2
	Ongoing	1	3
Masters (with thesis)	Graduated	0	0
	Ongoing	0	1
Masters (without thesis)	Graduated	12	N/A
	Ongoing	1	N/A

Conferences and Trainings Attended (last 3 years)

Conferences:
1. SOMET 2017, 26-28 September, Kitakyushu, Japan
2. ICCSTM 2018, Australia
3. ICAST 2019, Johor Bahru
4. AiIC2019, Penang, Malaysia

Trainings:
1. Outcome Based Education: Curriculum Design, CADE, UPM, 2018
2. Introduction to Cyber-Physical Systems and IoT Development: From Sensors to Analytics (CyPIoT-SA), UTM, July 2017.
3. Bengkel *Machine Leaning with R for Data Analysis,* November 2016
4. *INTERNET OF THINGS (IOT)*, Mei 2016

Research Grants

Research Projects (Project Leader):

1. An Analysis Approach for Specifying Innovative Elements in Improving Mobile Application Requirements, FRGS, 2 Nov 2015 –1 Nov 2018, RM72,000 (Completed)
2. A Conceptual Framework for Porting of Mobile Application, Research university Grant Scheme (RUGS), 05-02-12-2148RU, 1 Nov 2012 – 31 Apr 2015, RM49,000 (Completed)
3. Developing a LoQET: Learning Outcome Based Examination Paper Tool, Geran Insentif Penyelidikan dalam Pengajaran dan Pembelajaran (GIPP), 1 Nov 2012 – 31 Oct 2014, RM15,000 (Completed)

4. Environment Awareness Implementation on Case-Based Reasoning for Self-Recovery Systems, Research university Grant Scheme (RUGS), 05-05-08-0582RU, 8 Jan 2009 – 7 Jul 2011, RM28,280 (Completed)

Research Projects (Co-Researcher):

1. Tangible Interaction Learning Model to Improve Learning of the Malay Language Amongst Dyslexic Primary School Students (FRGS/RM77,200)(Ongoing)
2. Student Evaluation Model for the Implementation of iCGPA in Computer Science Curiculum (GIPP/RM15,000) (Completed)
3. A Self-Adaptation Framework to Enhance Dynamic Service Reconfiguration in Service-Oriented Architecture (RM86,100) (Completed)
4. Automated Errors Detection in UML Diagrams to Enhance Students' Learning in Object-Oriented Models (RM10,000) (Completed)
5. Multimodality Interactive Feedback-Approach for Design Studio Course (RM10,000)(Completed)
6. Software Architectural Analysis in Component-Based Software Development (RM29,500)(Completed)
7. Software Requirement Analysis Template Automation Aided System (RM46,000) (Completed)

Research Publications

Publications	Quantity
Book/Editorial	1
Chapters in Book	4
ISI/Scopus Indexed Journal	21
Non-Citation Indexed Journal	2
Conference Proceedings	36

List of significant and latest publications:

[1] McSherry, D., **Hassan, S.**, and Bustard, D. 2008. Conversational Case-Based Reasoning in Self-healing and Recovery. In *Proceedings of the 9th European Conference on Advances in Case-Based Reasoning* (Trier, Germany, September 01 - 04, 2008). K. Althoff, R. Bergmann, M. Minor, and A. Hanft, Eds. *Lecture Notes in Artificial Intelligence*, vol. 5239. Springer-Verlag, Berlin, Heidelberg, 340-354. DOI= http://dx.doi.org/10.1007/978-3-540-85502-6_23

[2] Chian Wen Too, and **Sa'adah Hassan**, 2015. The adoptions of USEPs in Identifying Usability Requirements in SSM-Based Framework: A Case Study, *H. Fujita and A. Selamat (Eds): Intelligent Software Methodologies, Tools and Techniques Communications in Computer and Information Science*, Vol.513, Springer International Publishing Switzerland, pp. 71-82. DOI=10.1007/978-3-319-17530-0_6

[3] Italumeh O. Ididi, **Sa'adah Hassan**, Abdul Azim Abd Ghani, Norhayati Mohd Ali, 2015. Counselling Attribute as a Correcting Framework against Game Overuse. *Jurnal Teknologi (Sciences and Engineering)*, 77(13), pp.29-35, eISSN 2180–3722.

[4] **Sa'adah Hassan**, Novia Admodisastro, Azrina Kamaruddin, Salmi Baharom and Noraini Che Pa, 2016. Developing a LOQET: Learning Outcome-Based Examination Paper Tool, Aida Suraya Md. Yunus, Muta Harah Zakaria, Nor Azirawani Man (Eds): Extended Abstracts of GIPP, vol. 1, pp.69-75. ISBN 978-967-960-400-9

[5] Kesava Rajadorai, **Sa'adah Hassan**, Novia Admodisastro and Hazura Zulzalil, Gap Analysis in Specifying Porting Requirements for Mobile Application, *Indian Journal of Science and Technology*, 2016.

[6] **Sa'adah Hassan**, Novia Admodisastro, Azrina Kamaruddin, Salmi Baharom and Noraini Che Pa, 2016. Developing a Learning Outcome-Based Question Examination Paper Tool for Universiti Putra Malaysia, *International Education Studies*, vol. 9(2), pp.132-140, ISSN 1913-9020.

[7] Noraini Che Pa, **Sa'adah Hassan**, Nur Shuhada Husin and Ainita Ban, 2016. Productive Practices of Hotel Management System Using Usability Approach: A Case Study, Advanced Science Letters, Advanced Science Letters, Volume 22 (8), pp. 1905-1908(4).

[8] Too, Chian Wen; **Hassan, Sa'adah**; Ghani, Abdul Azim Abdul; Din, Jamilah, 2017. Towards Improving Usability Requirements Elicitation and Specification Using Ontology-Driven Approach, *Advanced Science Letters*, Volume 23, Number 5, May 2017, pp. 4077-4081(5). **DOI:** https://doi.org/10.1166/asl.2017.8235.

[9] Italumeh O. Ididi, **Sa'adah Hassan**, Abdul Azim Abd Ghan, Norhayati Mohd Ali, 2017. Counselling Agent in Online Game Design for Excessive and Addictive Gaming Control, *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*, vol. 9(2-12), pp. 45-50.

[10] **Sa'adah Hassan**, Tengku Azharuddin Tuan Mohd Amin, Novia Admodisastro and Azrina Kamaruddin 2017, Morphological Approach in Creative Requirements Elicitation from Crowdsourcing, *Journal Of Telecommunication, Electronic and Computer Engineering (JTEC), vol. 9(3-5), pp. 31-35.*

[11] **Sa'adah Hassan**, Azrina Kamaruddin, Novia Admodisastro, Marzanah A. Jabar, 2017. Towards Developing an Approach to Confluence Innovative in Requirements Engineering, Frontiers in Artificial Intelligence and Applications: New Trends in Intelligent Software Methodologies, Tools and Techniques, Ed: Hamido Fujita, Ali Selamat, Sigeru Omatu, volume 297, IOS Press. pp. 164-175.

[12] Too, Chian Wen; **Hassan, Sa'adah**; Ghani, Abdul Azim Abdul; Din, Jamilah, 2018. A Domain Ontology for Eliciting Usability Features, *International Journal of Engineering & Technology*, vol. 7 (4.31), pp. 160-167.

[13] S.N. Jamali, N. Admodisastro, A.A. Abdul Ghani, **S. Hassan**, A. Kamaruddin and S.S. Abdul Hamid, Exploring Design Guidelines of Tangible Interaction in Learning for Children with Dyslexia, in the *Int. J. of Engineering and Technology (IJET)*, in press, 2018.

[14] Tengku Azharuddin Tuan Mohd Amin and **Sa'adah Hassan**, 2019. Exploring Creative Software Requirements from Crowd using Morphological Matrix, *Journal of Engineering and Advanced Technology,* vol. 8 (3S), pp.407-411.

[15] Nurul Afiqah Abdul Aziz, **Sa'adah Hassan**, and Novia Admodisastro. 2019. Prioritizing Based on Crowd Preferences to Requirements Elicited from Crowd's Sentiments, *International Journal of Innovative Technology and Exploring Engineering* (IJITEE), vol. 8(8S), pp.341-346.

Consultancy

- *Sistem Pengurusan Sukan Bersepadu* Project, UPM Sports Academy and Ministry of Youth and Sports, Malaysia (2013-2014)
- Advisor Assignment on Software Development Application, iDEC, Universiti Putra Malaysia (2015)
- Expert Reference *Advisory Assignment on Social Protection (SP) Reform*, Institute of Gerontology, UPM (2014)
- Advisor Assignment on PUTRA@Sukan, Pusat Sukan, Universiti Putra Malaysia (2017-2018)

Other Relevant Information

Reviewer for Journals:
- Journal of Information and Communication Technology(JICT)(2009)
- Pertanika (2011)(2012)
- ICSAI.org (2016)
- Journal of King Saud University (2017)
- Journal of Engineering Science and Technology (2018)

PhD Internal Examiner:

- Abdulkarim Bello (GS45175), Evolutionary Cost-Cognizant Regression Test Case Prioritization for Object-Oriented Programs (2019)

External Examiner:
- University Malaya - MSE thesis (Sepher Kazemi, 2016)
- University Malaya - MSE thesis (Siti Noor Hasanah, 2016)
- University Malaya - MSE thesis (Waleed Khaled Abdullah, 2017)

Industry & Community Award & Appreciations:
- Tutor Blink Project: *Certificate of Excellent – Cluster Award*, International STEM Olympiad ISTEMO 2018
- Tutor Blink Project: *Certificate of Award – The Most Outstanding Project Award – 1st Runner Up*, International STEM Olympiad ISTEMO 2018
- Certificate and Letter of Appreciation from MIMOS for Bachelor Final Year Project (FYP) Industry Collaboration Semester 1 2018/2019 – Book Portal Recommendation Engine Using Collaborative Filtering and Content-Based Filtering

Awards:

Medals at R&D Invention and Research Exhibition	Gold	Silver	Bronze
As Leader			
International: i-PHEX (2014)		1	
UPM: PRPI (2010,2014):		1	1
PECIPTA 2015			1
As Co-Researcher			
UPM: PRPI (2010) (PM. Dr. Marzanah)		1	
UPM: PRPI (2014) (Dr. Novia)		1	
UMP TVET Exposition 2017 (Dr. Novia)			1
PICTL (2018) (Dr. Novia, Dr. Azrina)	1	1	

Intellectual Properties:

Type	Quantity
Copyrights	6 (3 as Leader)
Patent	1 (as member)
Trademark	1 (as Leader)