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Education

Ph.D. School of Computer Science, National University of Malaysia (UKM). Bangi, Kuala Lumpur, 2008.

Title of Ph.D. Dissertation: *Word Agreement and Ordering in English-Arabic Machine Translation: A Rule-Based Approach.*

Area of Specialization: *Artificial Intelligence, Computational Linguistics, Information Retrieval, Compilers, Databases.*

M.S. School of Computer Science, University of Science Malaysia (USM). Penang, March 20, 2003.

Thesis Title: *Buliding an Interactive English-Arabic Machine Translation*

Specialty: *NLP, Artificial Intelligence.*

Advisor: *Professor Dr. Sureswaran Ramadass, School of Computer Science, University of Science Malaysia (USM).*

B.Sc. School of Applied Sciences, Jordan University of Science & Technology (JUST) 2001.

Thesis Title: *Interactive web-based site for the school of Computer Science.*

Specialty: *Computer and web programming*

Advisor: *Associate Professor Mahmoud Al Refaie, Jordan University of Science and Technology (JUST), Jordan.*

Professional Experience (Academia)

الوصف الوظيفي Work Description	الجامعة University	الفترة الزمنية Period
استاذ دكتور في قسم علوم الحاسوب Full Professor at the Computer Science Department	جامعة جرش Jerash University	13/9/2021
استاذ مشارك في قسم علوم الحاسوب Associate Professor at the Computer Science Department	جامعة جرش Jerash University	13/9/2021 – 2016/9/13
استاذ مساعد في قسم علوم الحاسوب Assist. Professor at the Computer Science Department	جامعة جرش Jerash University	13/9/2016 – 2015/9/13
استاذ مساعد في قسم علوم الحاسوب Assistant Professor at the Computer Science Department	جامعة تبوك University of Tabuk	2015/9/9 – 2010/10/1
مستشار وكيل جامعة تبوك للشؤون الأكاديمية Consultant / Vice President for e-Services	جامعة تبوك University of Tabuk	2012/10/1 – 2010/10/1
مدير عام وحدة التعليم الإلكتروني والتعلم عن بعد Manager of Distance and e-Learning Unit	جامعة تبوك University of Tabuk	2015/9/9 – 2010/10/1
استاذ مساعد في قسم علوم الحاسوب Assistant Professor at the Computer Science Department	جامعة جرش Jerash University	2010/9/30 – 2009/9/13
استاذ مساعد في قسم علوم الحاسوب Assistant Professor at the Computer Science Department	جامعة تيلور / الفرع الامريكي Taylor University American Degree Program	2009/9/1 – 2007/8/24
محاضر في قسم علم الحاسوب Lecturer at the Computer Science Department. / (Part Time)	جامعة العلوم والتكنولوجيا Jordan University of Science and Technology	2007/1/20 – 2006/9/20

العمل الإداري (Managerial Experience)

الوصف الوظيفي Work Description	الجامعة University	الفترة الزمنية Period
مساعد رئيس الجامعة للشؤون التقنية Assist. President of Jerash University	جامعة جرش Jerash University	Present - 2018/6/21
ق.أ. عميد عمادة التعلم الإلكتروني والتعليم عن بعد Dean of Distance and E-Learning Deanship	جامعة جرش Jerash University	Present - 2020/10/01
مدير مركز التعليم الإلكتروني والمصادر المفتوحة Manager of E-Learning and Open Sources Center	جامعة جرش Jerash University	2020/10/01 – 2018/6/21
مدير دائرة التنمية والتخطيط Planning Unit & Manager of Development	جامعة جرش Jerash University	Present - 2018/6/21
ق.أ. عميد كلية علوم الحاسوب وتكنولوجيا المعلومات Dean of the Faculty of Computer Science and IT	جامعة جرش Jerash University	2018/10/25 - 2015/9/13
مدير دائرة الخدمات الإلكترونية / مركز الحاسوب Manager of E-Services Unit / Computer Center	جامعة جرش Jerash University	2017/11/25 - 2016/10/13
مستشار وكيل الجامعة للشؤون الأكاديمية Consultant of Vice President for e-Services	جامعة تبوك University of Tabuk	2011/10/1 – 2010/10/1
مدير وحدة التعليم الإلكتروني والتعلم عن بعد Manager of Distance and e-Learning Unit	جامعة تبوك University of Tabuk	2015/9/9 – 2010/10/1
مدير وحدة الخطط والمناهج الدراسية Manager of Curriculum Unit	جامعة تبوك University of Tabuk	2015/9/9 – 2013/8/18

مدير دائرة الخدمات و الموقع الإلكتروني Manager of website and e-Services Unit	جامعة تبوك University of Tabuk	2015/9/9 – 2010/11/1
مدير وحدة الأنشطة العلمية Manager of Academic Activities Unit	جامعة تبوك University of Tabuk	2015/9/9 – 2013/9/1
رئيس مؤتمر WCIS Chair of WCIS Conference	جامعة تبوك University of Tabuk	2015/9/9 – 2012/10/1
رئيس قسم علوم الحاسوب Head of the Computer Science Department	جامعة جرش Jerash University	2010/9/30 – 2009/9/13

Reviewing and other Services

- External Examiner for many post-graduate students (Jordan University, Yarmouk, Hashemite, JUST, ...)
- Developing LMS for many schools for free. (Community Service)
- Reviewing 10s of Articles in high impacted factor Journals.
- IT consultant in many companies and institutions.

Documents are available upon requests

Honors and Awards

- Award of 1st Place talk presented in WCIS 2013, Tabuk, KSA.
- WCIS Technical Program award for excellence.
- University of Tabuk Award of Recognition for E-Learning Services, Tabuk University Forum. 2012.
- Jordan University of Science & Technology (JUST) Award for non-academic Excellency. June 2001.
- Award of "Sociology of Customer service". Nokia MEA, September 2007.

Funding (Not including Consulting)

- University of Tabuk, Developing a blended e-Learning System at the University of Tabuk, SR40,000
- National University of Malaysia, SEAS Information Retrieval Grant, April 20, 2007, \$9000.0
- American Degree Program – Taylor's University. ADP Forum Grant, June, 2008. \$10,000.

Recent Publications in Refereed Journals:

- Shquier, Mohammed M. Abu. " Brick and Mortar Education vs. SCORM-based Education in Computer-programming Courses: A Comparative Study." *Computer and Information Science* 14.1 (2021): 1-1.
- Shquier, Mohammed M. Abu. "Arabic-to-Malay Machine Translation Using Transfer Approach." *Computer and Information Science* 13.4 (2020): 1-1.
- Ali, Mohammed M., et al. "Novel approach in multilingual and mixed English-Arabic test collection." *International Journal of Computing Science and Mathematics* 11.3 (2020): 291-304.
- Zerrouki, Taha, et al. "Adapting eSpeak to Arabic language: converting Arabic text to speech language using eSpeak." *International Journal of Reasoning-based Intelligent Systems* 11.1 (2019): 76-89.
- Al-Khatib, Ra'ed M., et al. "MGA-TSP: modernised genetic algorithm for the travelling salesman problem." *International Journal of Reasoning-based Intelligent Systems* 11.3 (2019): 215-226.
- Ottom, Mohammad Ashraf, Fayha Alshibli, and Mohammed Abu Shquier. "AIR QUALITY INDEX USING MACHINE LEARNING–A JORDAN CASE STUDY." *COMPUSOFT: An International Journal of Advanced Computer Technology* 9.9 (2020): 3831-3840.
- Shquier, Mohammed M. Abu. "Novel Prototype for Handling Arabic Natural Language Processing: Smart Morphological Analyser." *2019 Second International Conference on Artificial Intelligence for Industries (AI4I)*. IEEE, 2019.
- Shquier, Mohammed M. Abu., Ra'ed M., et al. " **A New Enhanced Light Stemming Algorithm for IR in Medical Documents.**" *2020 Computers, Materials & Continua Journal*, (SCI: Impact Factor 4.89) **Sent for publication.**
- Shquier, Mohammed M. Abu., Ra'ed M., et al. " **Tashaphyne0.4: A New Modernised Arabic Light Stemmer Based on Rhizome Modeling Approach.**" *2020 Journal of Science and Technology (WJST)* **Sent for publication.**
- Shquier, Mohammed M. Abu., Ra'ed M., et al. " A smart morphology-driven approach for handling Arabic verb conjugation problem ." *2020 Journal of Computer Speech & Language (CSL)*. **Sent for publication.**

Other Publications in Refereed Journals:

- Abu Shquier, M. M., Abu Shqeer, O., 2015. Words ordering and corresponding verb-subject agreements in English-Arabic machine translation, An enhancement Approach. The International Arab Journal of Information Technology (IAJIT). *Sent for publication*, August 2015
 - Zerrouki, T. Alhawiti, K. , Abu Shquier, M., 2015. QUTRUB: NOVEL PROTOTYPE FOR HANDLING ARABIC VERBS CONJUGATION: RULE-BASED APPROACH, International Journals of Engineering & Sciences, (IJENS). *Accepted for publication*, May 2015
- Atoum, Mohammed Salem, and Mohammed M. Abu Shquier. "A Various Issues in Image Steganography that Using LSB." International Journal of Computer Networks and Communications Security, 3 (9), September 2015
- Abu Shquier, M. M., Abu Shqeer, O., 2015. Two experiments to evaluate the state of art of Arabic Machine Translation with EA-RBMT. World Applied Science Journal (WASJ). *Sent for publication*, August 2015
 - Abu Shquier, M., Alhawiti, K. 2015. "Fully Automated Arabic to English Machine Translation System: Transfer-based approach of AE-TBMT". DOI: International Journal of Information and Communication Technology, Inderscience co., Vol. x, No. x. *published*, July 2015.
 - Abu Shquier, M., Alhawiti, K. 2015. "NOVEL TRI-LITERAL WORD ANALYSER: RULE-BASED APPROACH". DOI : , Journal of Computer Science, Volume , Issue . Pages - . Science Publications. *published*. July 2015.
 - Abu Shquier, Mohammed M., "Computational Approach to the Derivation and Inflection of Arabic Irregular Verbs in English-Arabic Machine Translation." (2013). IJACT International Journal of Advancements in Computing Technology) Volume 5 Issue 15, November, 2013 Pages 1-21 ISSN 2005-8039 (Print) 2233-9337 Online). AICIT (Advanced Institute of Convergence Information Technology, Republic of Korea).
 - Omer Abu Shqeer, Mohammed Abu Shquier (2013). "A Technique to Enhance the Process of Handling Gender Agreement Requirement in English-Arabic Machine Translation", International Journal of Current Engineering and Technology, Vol.3, No.1 (March- 2013)
 - [URL:http://inpressco.com/wp-content/uploads/2013/01/Paper1394-101.pdf](http://inpressco.com/wp-content/uploads/2013/01/Paper1394-101.pdf).

- Mohammed Abu Shquier, Omer Abu Shqeer "Words ordering and corresponding verb-subject agreements in English-Arabic machine translation: Hybrid-based approach", International Journal of Soft Computing and Software Engineering [JSCSE], ol. 2, No. 8, pp. 49-60, 2012, Doi: 10.7321/jscse.2.n8.5URL: <http://dx.doi.org/10.7321/jscse.2.n8.5>
- Abu Shquier, M., and T. Sembok. "TOWARD FULLY AUTOMATED ARABIC MACHINE TRANSLATION SYSTEM." IJCSNS International Journal of Computer Science and Network Security 7.5.
- Abu Shquier, M.M.; Al Nabhan, M.M.; Sembok, T.M." Adopting New Rules in Rule-Based Machine Translation," IEEE-explore, page 62-67. Cambridge. UK , 978-1-4244-6614-6, 2010.
- Mohammed M. Abu Sembok, Tengku Mohd T." Word agreement and ordering in English-Arabic machine translation," IEEE-explore, page 1-9. Cambridge. UK , 978-1-4244-2327-9, 2008.

Publications: Conference Papers Published in Proceedings

- مؤتمر جامعة ديالي حول " رقمنة اللغة العربية ورهانات المستقبل"، جامعة ديالى، (متحدث رئيسي)، مقالة بعنوان: أدوات برمجية لخدمة اللغة العربية. 2020/7/9
- مؤتمر جامعة كربلاء حول " العربية بين الوسيطين: الورقي والرقمي -والواقع والآفاق -"، جامعة كربلاء، (متحدث رئيسي) مقالة بعنوان: تطوير شواذ الأفعال العربية رقميا، لغة الآلة انموذجا، 2020/12/18
- Abu Shquier, Mohammed Mahmoud (2015), Fully Automated Arabic to English Machine Translation System: Transfer-based Approach of AE-TBMT, Collective Intelligence Conference 2015, hosted by the University of Michigan. Santa Clara CA, USA
- Abu Shquier, Mohammed (2015), Honorable conference committee members, of the 2015 6th International Conference on Manufacturing Science and Technology. held in Bandar Seri Begawan, Brunei on 1-2, June, 2015.

- Abu Shquier, Mohammed Mahmoud (2015), Arabic Tri-Literal Word Analyser: Rule-Based Approach, The Second Workshop on Computers and Information Sciences 2015. <http://www.utfcit.com/wcis/ar/#schedule>
- Abu Shquier, Mohammed Mahmoud (2014). "Arabic Irregular Verbs: Inflection and Derivation for English-Arabic Machine Translation" . The 5th International Multi-Conference on Complexity, Informatics and Cybernetics: IMCIC 2014. March 4 - 7, 2014 ~ Orlando, Florida, USA.
- Shquier, Mohammed M. Abu, , and Omer M. Abu Shqeer (2013). "Hybrid-Based Approach to Handle Irregular Verb-Subject Agreements in English-Arabic Machine Translation." International Conference on Soft computing and Software Engineering 2013, San Francisco, CA ~ USA.
- Mohammed Abu Shquier, Mohammed Al Nabhan. EMCIS 2010. RULE-BASED APPROACH TO TACKLE AGREEMENT AND WORD- ORDERING in Automated EAMT. European, Mediterranean & Middle Eastern Conference on Information Systems. UAE, Abu Dhabi. . April 2010, Royal Hotel, Abu Dhabi.
- Mohammed Abu Shquier. KMICe 2010. Evaluation of Three English-Arabic Mt Systems against EA-RBMT. May 2010. Uniersiti Utara Malaysia,, Kedah, Malaysia.
- Mohammed M. Abu Shquier . IEEE (CSDL). Adopting New Rules in Rule-Based Machine Translation ISBN: 978-0-7695-4016-0. March 24-March 26- 2010, Cambridge, UK.
- Mohammed M. Al Nabhan & Mohammed M. Abu Shquier . Bahrain 2010. Location Based Serices as an Adaptive M-learning System. April 2010, Bahrain.
- Mohammed M. Abu Shquier & Tengku M. Sembok. 2008. Direct Rule-based Arabic MT System. International Scientific Conference. June 2008, Blagoegrad, BULGARIA.
- Mohammed M. Abu Shquier & Tengku M. Sembok. 2008. Agreement and Word-Ordering with Arabic Machine Translation. Tunis. March 2008, ACIT 2008.

- Mohammed M. Abu Shquier. 2008. Agreement and Word-Ordering with Arabic Machine Translation: A Rule-Based Approach (Technical Paper). Tunis March 2008. ACIT 2008.
- Mohammed M. Abu Shquier & Tengku M. Sembok. 2007. Handling Agreement In Machine Translation From English to Arabic.. March 2007, DCCA 2007, Irbed, Jordan.
- Mohammed M. Abu Shquier & Tengku M. Sembok. LINC 2007. RBMT English-Arabic Machine Translation: A Rule-based Approach (State of Art). August 2007, Amman - Jordan.

Publications: Theses

- Abu Shquier, M. (2008). *"Word Agreement and Ordering in English-Arabic Machine Translation: A Rule-Based Approach"*. PhD Theses. National University of Malaysia (UKM). Malaysia.
- Abu Shquier, M. (2003). *Interactive web-based site for the school of Computer Science"*. Master's Theses. University of Science Malaysia (USM). Malaysia.

University and Community Service

Second International Workshop on Computers and Information Sciences

- Coordinator and program chair.
- Chair of Technical Program.
- Chair of Scientific Committee.
- Member of Steering Committee. (please refer to <http://utfcit.com/wcis/ar>)

College of Computers and Information Technology

- Faculty member
- Web Developer/Master (PHP, ASP.net, SQL)
- Chair of Curriculum's development committee (IT dept.)

University of Tabuk/ Faculty of Computers and IT

- General Manager of the Distance and E-learning unit.

- Distance Learning permanent Committee.
- Web Developer/Master (PHP, ASP.net, SQL).
- Developer of the Alumni project (<http://utfcit.com/alumni>).
- Developer of the Openconf Project (<http://utfcit.com/wcis>).
- Developer of the ANLP project (<http://utfcit.com/anlp>)
- Developer for many other ongoing e-projects.

Research Interest

- Distance Learning management systems.
- Computational Linguistics.
- Arabic Natural Language Processing.
- Artificial Intelligence.
- Expert Systems
- Knowledge discovery in Web services
- Information Retrieval.
- E-Learning.

Workshops and Institutes Attended/Presented

2020: Presenter and Coordinator for E-Learning and Distance Education Workshop.

2019: Presenter and Coordinator for QA Workshop at the Faculty of Computer Science and IT.

2018: Acting member in the Strategic Plan Committee.

2016: Coordinator and Program Chair for the third symposium on Computers and Information Sciences: Arabic Natural Language Processing (WCIS 2017)
<http://www.utfcit.com/wcis/ar>

2015: Coordinator and Program Chair for the first workshop on Computers and Information Sciences: Arabic Natural Language Processing (WCIS 2015)
<http://www.utfcit.com/wcis/ar>

2015: Conducting online exams at the school of Computers and Information Technology (presenter) (<http://www.shquier.com/el>)

2015: Conducting workshop on web development using Liferay at the school of Computers and Information Technology (presenter)

2013: Coordinator and Program Chair for the first workshop on Computers and Information Sciences (WCIS 2013)

2012: King Abdulaziz City for Science & Technology, Improving Research innovation and creativity (QTech).

2012: Using E-Learning in improving University quality

2011: Conducting E-Learning Services at the school of Computers and Information Technology (presenter)

2010: Time Management workshop. Jerash University, Educational Science School

2009: E-Learning Services . Jerash University, Educational Science School

2009 : Enhancing the State of Art of English-Arabic Machine Translation (Statistical Approach), Taylors University College - Subang Jaya, Malaysia

2009: Computer Science Colloquium Development @ Taylors University College - Subang Jaya, Malaysia

2008: Building a Machine Translation System for the Primary Schools in Bangi - Malaysia

2008: Trainee - Soft Skills. Nokia Careline - Nokia. Finland, Sicom.