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# Marwah Mustafa Alian Abdel Rahim

## Objective

Seeking a challenging Position that meets my qualifications and enhance my experience and improve my programming skills.

## Personal Information

**Date and place of birth:** Sep 12, 1977, Jordan.  
**Gender:** Female.  
**Marital Status:** Single.  
**Nationality:** Jordanian.

## Education

- 2015-2021 **Princess Sumaya University for Technology** Amman – Jordan.
  - **PhD.** Computer science.  
**Grade:** Excellent (92.6).  
**Thesis Title:** Measuring Semantic Similarity for Arabic Sentences Using Machine Learning
- 2005 – 2007 **Jordan University** Amman – Jordan.
  - **M.Sc.** Computer science.  
**Grade:** Very Good (3.31).  
**Thesis Title:** The Shortest Adaptive Learning Path in eLearning Systems
- 1995 – 1999 **Hashimit University** Zarqa-Jordan
  - **B.Sc.** Computer Science  
**Grade:**Very good (3.42)
- 1994–1995 Al-Nuzha Al-Mehania Secondary School, Amman– Jordan.
  - Secondary Certificate (Scientific Stream),  
**Grade:** Excellent (90.7%)

## Teaching Courses

- Foundation of Programming ( using java).
- Visual Programming (using java).
- Advanced Java.
- Advanced Computer Skills.
- Pre Computer Skills.

## Skills and Interests

- Good Command of English and Arabic Languages.
- Very good communication skills.
- Excellent use of Microsoft Office
- Fast printing in Arabic & English Languages
- Good designer of web sites using Front Page
- Good animator using Flash and MOHO
- Moodle (elearning software) Administrator

## Training and Courses

- ICDL
- Cisco
- World links
- NLP (Neuro Linguistic Programming)

1. Applying Ordinal Association Rules for Cleansing Data With Missing Values, Azzam Sleit, Mousa Al-Akhras, Inas Juma, Marwah Alian , The Journal of American Science, Volume 5 - Number 3, June 1, 2009, pp. 52-62
2. A Shortest Adaptive Learning Path in eLearning Systems: Mathematical View, Marwah Alian, Riad Jabri , The Journal of American Science, Volume 5 - Number 6, September, 2009 ,pp.32-42
3. An Adaptive Shortest Learning Path: A formalized Approach, Jabri, R., Alian, M., AMSE journals, Advances in Modelling, Series D Computer Science and Statistics. Vol. 14(1), pp.1-20, 2009.
4. AdaLearn: An Adaptive Elearning Environment, Marwah Alian, Mousa Al-Akhras, Proceedings of the 1st International Conference on Intelligent Semantic Web-Services and Applications (ISWSA '10), DOI: 10.1145/1874590.1874611,14-16 June 2010, Amman, Jordan.
5. Innovative Secure Mobile Banking Services, Mousa T AL-Akhras, Rizik Al-Sayyed, Marwah Alian, Doaa Qwasmi , International Journal of Interactive Mobile Technologies (IJIM), Vol 5, No 1, pp.12-21, January 2011.
6. Formalization and Implementation of Eliminating and Optimizing Selection (EOS) approach, Marwah Alian, Education and Information Technologies: Volume 16, Issue 1, Page 89-103. DOI: 10.1007/s10639-009-9113-0, From the issue entitled "Special Issue: Online Learning Technologies", Springer.2011
7. Social networks impact: the case of Jordan youth, Ibrahim Al-Oqily, Ghazi Alkhatib, Ahmad Khasawneh and Marwah Alian, International Journal of Continuing Engineering Education and Life-Long Learning ( Vol. 23, No.1, pp.100-114),February 2013, Inderscience Publishers. DOI: 10.1504/IJCEELL.2013.051953
8. Arabic WebPages Classification Based On Fuzzy Association, Aayat Shdaifat, Marwah Alian, International Journal of Computer Science Issues, April,2014, Vol.11, Issue 2, No.1, pp.110-119.
9. Test Case Reduction Techniques - Survey, Marwah Alian, Dima Suleiman, Adnan Shaout, (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 7, No. 5, 2016, pp. 264-275.
10. Towards Adaptive Hybrid Optimization Technique, Marwah Alian, Amjad Hudaib, Proceedings of the International computer science and informatics conference (ICSIC 2016), Amman Arab University, pp 42-50.
11. Arabic Word Sense Disambiguation Using Wikipedia, Marwah Alian, Arafat Awajan, Akram Al-Kouz, International Journal of Computing & Information Sciences Vol. 12, No. 1, September 2016, pp.61-66.
12. Word sense disambiguation for Arabic text using Wikipedia and Vector Space Model, Marwah Alian, Arafat Awajan, Akram Al-Kouz, International Journal of Speech Technology, published online 4 october 2016, Vol 19 , No. 4, pp 857-867, DOI: 10.1007/s10772-016-9376-y

13. Predicting learners styles based on fuzzy model, Marwah Alian & Adnan Shaout, *Education and Information Technologies*, Volume 22, Issue 5, pp.2217–2234, 2016, Springer,DOI 10.1007/s10639-016-9543-4
14. Towards Adaptive Hybrid Optimization Technique, Marwah Alian, Amjad Hudaib, Dima Suleiman, *International Journal of Advanced Studies in Computers, Science and Engineering*, Vol.5 Issue 11, pp.169-174
15. Simplified AES algorithm for healthcare applications on Internet of Thing, Mariam Khader, Marwah Alian, Raghda Hraiz, Sufyan Almajali, 8th International Conference on Information Technology (ICIT), 2017, pp.543-547, IEEE.
16. A survey on prioritization regression testing test case, Dima Suleiman, Marwah Alian, Amjad Hudaib, 8th International Conference on Information Technology (ICIT), 2017, IEEE, pp.854-862.
17. LSHADE Enhancement Using MTS-LS1, Marwah Alian, Dima Suleiman, Mostafa Z. Ali, In proceedings of International Conference on New Trends in Computing Sciences (ICTCS), pp.109-115, IEEE, 2017.
18. Arabic Word Sense Disambiguation - Survey, Marwah Alian, Arafat Awajan, Akram Al-Kouz, In proceedings of International Conference on New Trends in Computing Sciences (ICTCS), pp. 236 - 240, IEEE 2017.
19. Using transliteration with entity resolution for Arabic datasets, Marwah Alian, Ghazi Al-Naymat, Banda Ramadan, in 14th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA'2017), Hammamet.
20. Arabic Semantic Similarity Approaches – Review, Marwah Alian, Arafat Awajan, The 19th International Arab Conference on Information Technology (ACIT' 2018).
21. Unsupervised learning blocking keys technique for indexing Arabic entity resolution, Marwah Alian, Arafat Awajan, Banda Ramadan, *International Journal of Speech Technology*, Vol.22, No.3, pp. 621-628, 2019.
22. Arabic Tag Sets: Review, Marwah Alian, Arafat Awajan, In: Arai K., Kapoor S., Bhatia R. (eds) *Intelligent Systems and Applications. IntelliSys 2018. Advances in Intelligent Systems and Computing*, vol 868, pp 592-606, 2019.
23. Towards Building Arabic Paraphrasing Benchmark, Marwah Alian, Arafat Awajan, Ahmad Al-Hasan, Raeda Akuzhia, *Proceedings of the Second International Conference on Data Science, E-Learning and Information Systems (Data '19)*, UAE, 2019.
24. Factors affecting sentence similarity and paraphrasing identification, Marwah Alian, Arafat Awajan, *International Journal of speech technology*, 2020.
25. Arabic real time entity resolution using inverted indexing, Marwah Alian, Ghazi Al-Naymat, Banda Ramadan, *Language resources and evaluation*, 2020.
26. Semantic Similarity for English and Arabic Texts: A Review, Marwah Alian, Arafat Awajan, *Journal of Information & Knowledge Management*, 2020

## Publications

27. Paraphrasing identification techniques in English and Arabic texts, Marwah Alian, Arafat Awajan, 11th International Conference on Information and Communication Systems (ICICS),2020, Apr, Jordan.
28. Evaluating Factors Affecting Sentences Similarity And Paraphrasing Identification Using K-Means Clustering, Marwah Alian, Arafat Awajan, 35th IBIMA Conference: 1-2 April 2020, Seville, Spain.
29. Sense Inventories for Arabic Texts, Marwah Alian, Arafat Awajan, 21st International Arab Conference on Information Technology (ACIT), pp.1-4, Egypt, Nov, 2020.
30. Building Arabic Paraphrasing Benchmark based on Transformation Rules, Marwah Alian, Arafat Awajan, Ahmad Al-Hasan, Raeda Akuzhia, Transactions on Asian and Low-Resource Language Information Processing, pp. 1-17, Vol 20, No.4, 2021.
31. Generating Sense Inventories for Ambiguous Arabic Words, Marwah Alian, Arafat Awajan, pp. 446-451, Vol. 18, No. 3A, Special Issue 2021.
32. Arabic sentence similarity based on similarity features and machine learning, Marwah Alian, Arafat Awajan, Soft Computing, 2021, Springer.

## Experience

- Visual Basic Programmer in Fee Automated Company 1999.
- Teacher in MOE Schools:27/8/ 2000-10/2/2008
- Seed Project – JICA. 10/2/2008- 19/6/2008.
- Programmer in Queen Rania Center For Education Technology. 17/8/2008-30/9/2008.
- Instructor in Isra University. 5/10/2008-12/9/2011.
- Lecturer in Hashemite University- Faculty of Science- Basic Department. 13/9/2011-Now.

## References

**Available Upon Request**