

Curriculum Vitae (CV)



Personal Information

- **Name:** Khalid Mohamed Oqlah Nahar.
- **Birth Place:** KufriKhal-Jarash.
- **Birth Date:** October 3, 1970.
- **Nationality:** Jordanian.
- **Marital Status:** Married.
- **No. of Childs:** 5.
- **Mail-Address (Jordan):**
Dr.Khalid M.O. Nahar
Computer Science Department
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Yarmouk University
Irbid-Jordan
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Education

Degree	University	Graduation Date	Cumulative Average	Grade
BSc In Computer Science	Yarmouk University / Irbid-Jordan	19-1-1992	79.0	Very Good
MSc In Computer Science	Yarmouk University / Irbid-Jordan	14-6-2005	91.9	Excellent
PhD In Computer Science & Engineering	King Fahd University of Petroleum and Minerals	15-5-2013	3.8 /4 Grade	Excellent

Spoken Languages

	Arabic	English
Oral	Excellent	Excellent
Writing skills	Excellent	Excellent

History of Professional Employment

No.	Period		Job	Organization
	From	To		
1	18/2/92	8/6/92	Teacher	Directorate of Education
2	26/9/92	10/4/93	Instructor	Ibn-Khaldoun College-Irbid
3	10/4/93	10/8/1999	Teaching Research Assistant	Yarmouk University
4	1/9/1999	1/6/2002	Teacher Assistant	Teachers College – Baha-Saudi Arabia
5	20/8/2002	1/9/2003	Teaching Research Assistant	Yarmouk University
6	1/6/2005	1/9/2010	Instructor	Yarmouk University
7	1/9/2010	15/5/2013	PhD student/Lec-B	King Fahd University of Petroleum and Minerals
8	24/9/2013	1/9/2014	Assistant Professor	Tabuk University
9	13/7/2015	10/8/2020	Assistant Professor	Yarmouk University
10	10/8/2020	Now	Associate Professor	Yarmouk University

Programming Languages and Tools

- VP .NET
- Visual C++, C#,C.
- Oracle SQL, PL/SQL
- Turbo Prolog, Pascal from Ver 3 up Ver 9, Top-Speed Modula 2, Fortran 77
- CLIPS
- MATLAB 2010a-2018 (professional)
- Sphinx ASR system
- HTK ASR system
- Pocket-Sphinx
- Python
- Machine Learning Tools: Weka, Knime, and Orange

Workshops and Training courses

- Introduction to Operating System (UNIX).
- HP-UNIX System Administration (50 hours).
- ECDL (Microsoft certificate).
- Arabic Language Processing Workshop – Saudi Arabia /Tabuk.
- Multiple Workshops on Speech Processing.

Internal and External Project

- Internal Project Number 2017/39 "Automatic Identification of Human Faces During Conflicts", Still Running.
- Internal Project Number 2018/16 "Monitoring and Protecting Athletics in the Field based on IOT", Still Running.
- Internal Project Number "Holy Quran Citation Manager" in the Field of NLP.
- External HOPES project for Syrian Refugees for MICRO-MASTER Program on DATA SCIENCE and MACHINE LEARNING. (Closed)
- External "Kastrum Project-CNR/DOA/MAECI: Enhancement of the UNESCO Site Umm ar-Rasas". The project is based on using Augmented Reality. (Recently Started).

Taught Courses at Yarmouk University and Other Universities

- *I have taught several courses at Yarmouk University, and other inside and outside Universities, Includes:*
 - CS100: An introduction to computer and its applications (Non-computer science students Office + SharePoint Designer).
 - CS101: An introduction to programming (C++ programming language).
 - CS102: An introduction to computer science.
 - CS114: AI programming (prolog language).
 - CS117: Object Oriented Programming (Also At Tabuk University – KSA).
 - CS 250: Data Structures with Object Oriented Programming.
 - CS 255: Data Structures LAB.
 - CS334: Data communication and networking.
 - CS 416: Computer Graphics with OpenGL.
 - CS 434: Distributed Systems.
 - CS 317: Fundamentals of Programming Languages (in Just University)
 - **CS 634: Advanced Network for Master Students.**
 - **AI 671: Natural Language and Speech Processing for Master Students.**
 - **AI 675: Machine Learning for Master Students.**
 - **AI 672: Knowledgebase Systems.**
 - **AI 660: Speech Recognition and Understanding.**
 - **AI641:Pattern Recognition.**

Research Interest

Main Topic: Artificial Intelligence (AI).

Sub-Topics:

- Continuous Arabic Speech Recognition and its engineering
- Pattern Recognition and Image Processing.
- Natural Language Processing (NLP) (Arabic Computing including OCR).
- Machine Learning (Supervised/Unsupervised Learning, Deep Learning, and Transfer Learning).
- Data Science and Information Retrieval.
- Wireless Sensor Networks.
- Data Security and Encryption.

Occupied Academic Positions

➤ Dean Assistant for Quality Control

Publications

1. **NAHAR, K.**, Khatib, R., Shannaq, M., & Barhoush, M. (2020). AN EFFICIENT HOLY QURAN RECITATION RECOGNIZER BASED ON SVM LEARNING MODEL. *Jordanian Journal of Computers and Information Technology*, 1. <https://doi.org/10.5455/jcit.71-1593380662>
2. **Nahar, K. M.**, Ottom, M. A., Alshibli, F., & Shquier, M. M. A. (2020). AIR QUALITY INDEX USING MACHINE LEARNING–A JORDAN CASE STUDY. *Compusoft*, 9(9), 3831-3840.
3. **Nahar, K.**, Jaradat, A., Atoum, M., & Ibrahim, F. (2020). SENTIMENT ANALYSIS AND CLASSIFICATION OF ARAB JORDANIAN FACEBOOK COMMENTS FOR JORDANIAN TELECOM COMPANIES USING LEXICON-BASED APPROACH AND MACHINE LEARNING. *Jordanian Journal of Computers and Information Technology*, 1. <https://doi.org/10.5455/jcit.71-1586289399>.
4. Ibrahim, F., **Nahar, K. M. O.**, & Al-Shannaq, M. A. (2020). Gender identification and age estimation of Arabic speaker using machine learning. *Journal of Theoretical and Applied Information Technology*, 10(19), 3242–3251.
5. **Nahar, K.** (2020). Handicapped Wheelchair Movements Using Discrete Arabic Command Recognition. *Basic and Applied Sciences - Scientific Journal of King Faisal University*. <https://doi.org/10.37575/b/com/2034>.
6. Ottom, M. A., Alawad, N. A., & **Nahar, K. M.** (2019). Classification of Mushroom Fungi Using Machine Learning Techniques. *International Journal of Advanced Trends in Computer Science and Engineering*, 8(5), 2378-2385.
7. Abed-Alguni, B. H., Klaib, A. F., & **Nahar, K. M. O.** (2019). Island-based whale optimisation algorithm for continuous optimisation problems. *International Journal of Reasoning-Based Intelligent Systems*, 11(4), 319–329. <https://doi.org/10.1504/IJRIS.2019.103525>.
8. Al-Khatib, R. ed M., Al-Betar, M. A., Awadallah, M. A., **Nahar, K. M. O.**, Abu Shquier, M. M., Manasrah, A. M., & Doumi, A. B. (2019). MGA-TSP: Modernised genetic algorithm for the travelling salesman problem. *International Journal of Reasoning-Based Intelligent Systems*, 11(3), 215–226. <https://doi.org/10.1504/IJRIS.2019.102541>.

9. **Nahar, K. M.**, Ra'ed, M., Barhoush, M., & Halin, A. A. (2019). MPF-LEACH: modified probability function for cluster head election in LEACH protocol. *International Journal of Computer Applications in Technology (IJCAT)*, 60(3), 267-280.
10. **Nahar, K.**, Alhindawi, N., Al-Hazaimah, O., Al-Khatib, R. M., & Al-Akhras, A. (2018). NLP and IR-based Solution for Confirming Classification of Research Papers. *Journal of Theoretical and Applied Information Technology*, 96, 5269-5279.
11. **Gharaibeh, N.**, Al-Hazaimah, O. M., Al-Naami, B., & **Nahar, K. M.** (2018). An effective image processing method for detection of diabetic retinopathy diseases from retinal fundus images. *International Journal of Signal and Imaging Systems Engineering*, 11(4), 206-216.
12. **Bsoul, A. A. R.**, Manasrah, A. M., **Nahar, K. M.**, & Alshanaq, M. (2018). Quid pro quo LEACH protocol. *International Journal of Systems, Control and Communications*, 9(2), 106-135.
13. **Ra'ed, M.**, & **Nahar, K. M.** (2017, December). SRT-GA: Smart real-time system using a powerful genetic algorithm for school bus routing problem. In *2017 2nd International Conference on the Applications of Information Technology in Developing Renewable Energy Processes & Systems (IT-DREPS)* (pp. 1-8). IEEE.
14. **Nahar, K. M.**, & **Ra'ed, M.** (2017, December). EPSSR: Energy preserving system for smart rooms. In *2017 2nd International Conference on the Applications of Information Technology in Developing Renewable Energy Processes & Systems (IT-DREPS)* (pp. 1-6). IEEE.
15. **Nahar, K. M.**, & **Alsmadi, I.** (2017, May). Information analysis to study interactions between different genes and diseases. In *2017 8th International Conference on Information Technology (ICIT)* (pp. 1-5). IEEE.
16. **Alazzam, I.**, & **Nahar, K. M.** (2018, April). Combined Source Code Approach for Test Case Prioritization. In *Proceedings of the 2018 International Conference on Information Science and System* (pp. 12-15). ACM.
17. **M Ashraf, k N.** (2017). Computer Aided Diagnosis for Chronic Kidney Disease Using Data Mining. *The Fourth International Conference on Computer Science, Computer Engineering, and Education Technologies (CSCEET2017)*.
18. **Nahar, Khalid M.O;** " *Off-line Arabic Hand-writing Recognition using Artificial Neoural Network with Genetics Algorithm* ", *The International Arab Journal of Information Technology (IAJIT)* , Vol 15, No 6, November 2018.
19. **KHALID M.O. NAHAR, NOUH ALHINDAWI, OBAIDA M. AL-HAZAIMEH, RAED M. AL-KHATIB, ABDALLAH M AL-AKHRAS,**" NLP AND IR BASED SOLUTION FOR CONFIRMING CLASSIFICATION OF

RESEARCH PAPERS”, Journal of Theoretical and Applied Information Technology 31st August 2018 -- Vol. 96. No. 16 – 2018.

20. **KHALID M.O. NAHAR**, RAED M. AL-KHATIB, MOY'AWIAH AL-SHANNAQ, MOHAMMAD DARADKEH, RAMI MALKAWI” Direct Text Classifier for Thematic Arabic Discourse Documents”, International Arab Journal of Information Technology (IAJIT), Volume 17, No. 3, May 2020
21. **KHALID M.O. NAHAR**, AHMED F. AL EROUD, MALEK BARAHOUSH, ABDALLAH M AL-AKHRAS, “SAP: Standard Arabic Profiling Toolset”, International Journal of Machine Learning and Computing (IJMLC), Vol. 9, No. 2, April 2019.
22. **KHALID M.O. NAHAR**, , MOYAWIAH AL-SHANNAQ, AHMAD MANASRAH, RAFAT ALSHORMAN, IYAD ALAZZAM, “A Holy Quran Reader/Reciter Identification System Using Support Vector Machine”, International Journal of Machine Learning and Computing (IJMLC), Vol. 9, No. 5, October 2019.
23. Moy'awiah Al-Shannaq, **Khalid M.O. Nahar**, Khaldoun MK.H Halawani, “AQAS: ARABIC QUESTION ANSWERING SYSTEM BASED ON SVM, SVD, and LSI”, Journal of Theoretical and Applied Information Technology (JATIT), Vol. 97 Issue 02 on 31st January 2019.
24. **Nahar, K. M. O.**, Shquier, M. M. A., & Alsmadi, I. (2016). Students performance between classical and online education: a comparative study. *International Journal of Continuing Engineering Education and Life-Long Learning*, 26(4), 359. <https://doi.org/10.1504/IJCEELL.2016.080966>.
25. **Nahar, K. M. O.**, Abu Shquier, M., Al-Khatib, W. G., Al-Muhtaseb, H., & Elshafei, M. (2016). Arabic phonemes recognition using hybrid LVQ/HMM model for continuous speech recognition. *International Journal of Speech Technology*, 19(3), 495–508. <https://doi.org/10.1007/s10772-016-9337-5>.
26. Iyad Alazzam, Izzat Alsmadi and **Khalid M.O Nahar**, “Software Design Principles to Enhance SDN Architecture” *International Journal of Advanced Computer Science and Applications(ijacs)*, 7(8), 2016. <http://dx.doi.org/10.14569/IJACSA.2016.070822>.
27. Das, T. K., & **Nahar, K. M. O.** (2016). A Voice Identification System using Hidden Markov Model. *Indian Journal of Science and Technology*, 9(4). <https://doi.org/10.17485/ijst/2016/v9i4/83894>.
28. Maqableh, M. , Masa'deh, R. , Shannak, R. and **Nahar, K.** (2015) Perceived Trust and Payment Methods: An Empirical Study of MarkaVIP Company. *International Journal of Communications, Network and System Sciences*, 8, 409-427. doi: 10.4236/ijcns.2015.811038.
29. **Nahar, Khalid M.O**; Al-Muhtaseb, Husni; Al-Khatib, Wasfi G.; Elshafei, Moustafa; Alghamdi, Mansour M., " *Arabic Phonemes Transcription Using Data Drive Approach*", The International Arab Journal of Information Technology (IAJIT) , (ISSN: 2309-4524), 2014
30. **Nahar, Khalid M.O**; Al-Khatib, Wasfi G.; Elshafei, Moustafa; Al-Muhtaseb, Husni; Alghamdi, Mansour M., "Data-driven Arabic phoneme recognition

using varying number of HMM states," Communications, Signal Processing, and their Applications (ICCSPA), 2013 1st International Conference on , vol., no., pp.1,6, 12-14 Feb. 2013 doi: 10.1109/ICCSPA.2013.6487258.

- 31. Khalid M. O Nahar**, Mustafa Elshafei, Wasfi G. Al-Khatib, Husni Al-uhtaseb, Mansour M. Alghamdi. "*Statistical Analysis of Arabic Phonemes for continuous Speech Recognition*", International Journal of Computer and Information Technology (ISSN: 2279 – 0764) Volume 01– Issue 02, November 2012.
- 32. Khalid M. O Nahar**, Mustafa Elshafei, Wasfi G. Al-Khatib, Husni Al-uhtaseb, Mansour M. Alghamdi. "*Statistical Analysis of Arabic Phonemes Used in Arabic Speech Recognition*", 19th International Conference, ICONIP 2012, Doha, Qatar, November 12-15, 2012, Proceedings, Part I, pp 533-542.
- 33. Khalid Nahar**, Osama Abu Abbas and Ahmad Mansour,"Hybrid Cipher System" , ABHATH AL-YARMOUK: "Basic Sci. & Eng." Vol. 19, No. 1, 2010.
- 34. Mohammad Tubishat, Khalid Nahar** and Osama Abu Abbas * 1,"Dual Language Encryption System", ABHATH AL-YARMOUK: "Basic Sci. & Eng." Vol. 18, No. 2, 2009, pp. 215- 226 Received on March 10, 2009 Accepted for publication on June 1,
- 35. Khalid Nahar** and Izzat alsmadi "The Automatic Grading for online exams with Essay Questions Using Statistical and Computational Linguistics Techniques", MASAUM Journal of computing, Volume 1 Issue 2, September 2009.
- 36. Khalid Nahar**, Osama Abu Abbas and Mohammad Tubishat. HRO encryption system. In the proceedings of the 8th international Arab Conference on Information Technology (ACIT2007). November 26-28, 2007: 73-79.
- 37. Osama Abu Abbas, Khalid Nahar** and Mohammad Tubishat. ARAE cipher system. In the proceedings of the 8th international Arab Conference on Information Technology (ACIT2007). November 26-28, 2007:90-93.
- 38. Al-Kabi, Mohammed; Kanaan, Ghassan; Al-Shalabi, Riyad and Nahar, Kahlid.** Bani-Ismael, Basel Mohammed "Statistical Classifier of the Holy Quran Verses (Fatiha And Yaseen Chapters)", Journal of Applied Sciences 5(3): 580-583, 2005.
- 39. Al-Shalabi, Riyad, Kanaan, Ghassan, Nahar, Kahlid** and Madalal, Mohammad. "Question Answering System For Arabic Language Using N-gram Technique", International Journal of Applied Science and Computations Vol. 12, NO.2 August 2005, pages 113 - 128.

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