

Nushwan Al-Nakash
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University of North Texas at Dallas
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Education

- Ph.D. Computer Science, “Realization of Vector Quantization Algorithm Using FPGA Devices”, **2006**. Iraqi Commission for Computers and Informatics, Institute for Postgraduate Studies. Baghdad, Iraq.
- M.Sc. Remote Sensing, Image Processing, and Applications, “A Comparison of the Watershed Method of Classification with Traditional Maximum Likelihood Method”, **1988**. Dundee University, Scotland, U.K.
- Dip. Eng. Electronic Engineering. **1986**. Dundee University, Scotland, U.K.
- B.Sc. Electronic Engineering. **1984**. Bolton Institute of Higher Education, England, U.K.

Areas of Expertise

- Statistical Analysis & Probabilistic Models.
- Data Communications & Computer Networking.
- Remote Sensing & Geospatial Processing.
- Image Processing & Image Mining.
- Speech Coding & Speaker Recognition.

Background

- In September **1991**, joined Al-Mansour University College, as a professor of Computer Science, Baghdad-Iraq.
- In June **2008**, joined Baghdad University, as a professor of Computer Science, Baghdad-Iraq.
- In August **2015**, joined Harrisburg University of Science and Technology, as a professor of Computer Science, Pennsylvania, USA.
- In August **2023**, joined the School of Liberal Arts and Sciences, University of North Texas at Dallas, as a professor of Computer Science, Texas, USA.
- In September **2024**, joined the School of Business, University of North Texas at Dallas, as a professor of Computer Science, Texas, USA.

Courses Taught

- Courses Taught at **UNT Dallas** includes: Basic Information Systems, Computer Science I, Computing Foundations I, Computing Foundations II, Digital Logic, IT Project Management, and Software Engineering.
- Courses Taught at **Harrisburg University of Science and Technology** includes Data Security, Machine learning, Network Security, Computer Networking, Operating systems, Advanced Computer Architecture, and Advanced Systems Engineering.
- Courses Taught at **Women College of Science**, Baghdad University includes Computer Networking, Operating systems, Advanced Computer Architecture.
- Courses Taught at **Al-Mansour University College** includes Computer Networking, Data Security, Digital Signal Processing, Digital Image Processing, and Computer Organization and Architecture.

Published Papers& Conferences.

1. Jai Keerthy Chowlur Revanna, Nushwan Yousif B Al-Nakash, “Impact of ACO intelligent vehicle real-time software in finding shortest path”, Software Impacts Volume 19, March 2024, 100625.
2. Jai Keerthy Chowlur Revanna, Nushwan Yousif B Al-Nakash, "Metaheuristic link prediction (MLP) using AI-based ACO-GA optimization model for solving vehicle routing problem”, International Journal of Information Technology, Volume 15, Issue 7, October 2023.

3. Jai Keerthy Chowlur Revanna, Emine Arikan, Niture, NandKumar; Nushwan Yousif B Al-Nakash, "Advanced Route Optimization Using Hybridized Salesforce Geopointe Package", 2nd International Conference on Data Science and Intelligent Applications (ICDSIA-2023), Gandhinagar Institute of Technology. April 28-29, 2023.
4. Chowlur Revanna, Jai Keerthy, Niture, NandKumar; Al-Nakash, Nushwan, "Analysis of Data using hybridized K-means clustering with PSO-JAYA Algorithm", IEE International Conference on Advances in Electronics, Communications, Computing and Intelligent Information Systems (ICAECIS-23), Bangalore Institute of Technology, 19-21 April 2023.
5. Jai Keerthy Chowlur Revanna, Nushwan Yousif B Al-Nakash, "Ant Colony Optimization with Simulated Annealing Algorithm for Google Maps", International Conference of Advanced Computing & Communication Systems ICACCS 2023, March 3, 2023, India.
6. Jai Keerthy Chowlur Revanna, Nushwan Yousif B Al-Nakash, "Tensor Flow Model with Hybrid Optimization Algorithm for solving Vehicle Routing Problem" 7th International Conference on Inventive Systems and Control ICISC 2023, Springer - Lecture Notes in Networks and Systems, ISSN:2367-3370, <https://www.springer.com/series/15179>Links to an external site.
7. Jai Keerthy Chowlur Revanna, Nushwan Yousif B. Al-Nakash, "Vehicle Routing Problem with Time Window Constrains using K-Means Clustering to Obtain the Closest Customer" Global Journal of Computer Science and Technology: D Neural & Artificial Intelligence, Volume 22 Issue 1 Version 1.0 the Year 2022, Publisher: Global Journals, Online ISSN: 0975-4172 & Print ISSN: 0975-4350.
8. Mina Gabriel, Sangwhan Cha, Nushwan Yousif B. Al-Nakash, and Daqing Yun, "Wildlife Detection and Recognition in Digital Images Using YOLOv3", IEEE Conference, 21-22 Oct. 2020, Electronic ISBN:978-1-7281-8266-7, Print on Demand ISBN:978-1-7281-8267-4. 2020 IEEE Cloud Summit.
9. Mahdi, H.S., Mohammed, I.J., Baithoon, N.Y. "Low Energy Consumption Scheme Based on PEGASIS Protocol in WSNs", Iraqi Journal for Science, Baghdad University, College of Science., Vol. 56, Issue No. 3B, September 2015, Baghdad-Iraq.
10. Mahdi, H.S., Mohammed, I.J., Baithoon, N.Y. "Low Transmission Delay Based on Leach and PEGASIS Protocol in WSN", International Journal of Computer Science and Mobile Computing, ISSN 2320-088X Vol.4 Issue.5, May 2015, pg. 209-217, India.
11. Baithoon, N.Y., 'Muhammad H., M., N.A., "Speech Steganography in Music files", Journal of Information and Knowledge Management, ISSN (Paper)2224-5758, UK 2013.
12. Baithoon, N.Y., Ameen, N.A., "File Search with Query Expansion in a Network System(s)", Journal of Information and Knowledge Management, ISSN (Paper) 2224-5758, UK 2013.
13. Baithoon, N.Y., Sahee, S.A., "Reformation of Torn Image Pieces", Journal of the College of Education, Al-Mustansirya University, 2013. Baghdad-Iraq.
14. Baithoon, N.Y., George, D.N., "Tumor Type Recognition using Neural Networks", Journal of the College of Education, Al-Mustansirya University, 2013. Baghdad-Iraq.
15. Baithoon, N.Y. "Combined DWT and DCT Image Compression Using Sliding RLE Technique". Journal of Baghdad for Science, Baghdad University, College of Science for Women, 2011. Baghdad-Iraq.
16. Baithoon, N.Y. "Zeros Removal with DCT Image Compression Technique". Iraqi Conference for Information Technology (ICIT'2010), University of Kufa, Iraq on October 19-20, 2010. Al-Najaf, Iraq.
17. Baithoon, N.Y. (2010) "DCT Image Compression Using Sliding RLE Technique" Iraqi Journal for Science, Baghdad University, College of Science., Issue No. 3 December 2010. Baghdad-Iraq.
18. Baithoon, N.Y. (2010) "A Diminution Method for Large Multi-Dimensional Data Retrieval" Journal of Applied Computer Science & Mathematics, Issue No. 8(4) June 2010. Suceava-Romania.
19. Baithoon, N.Y. (2000) "The Information Superhighway". Conference "The Role of the Arab Scholar in Advancing the Information Superhighway" held in Baghdad and sponsored by Al-Mansour University College, Sept. 2000. Baghdad-Iraq.