CURRICULUM VITAE

Nesreen Adnan Hasan Hamad

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1. **Education**

   - PhD Candidate (Computer Science), The university of Jordan, Amman, Jordan

   - M.Sc. (Computer Science), The University of Jordan, Amman, Jordan

   - B.Sc. (Computer Science), Al-Zaytoonah University of Jordan, Amman, Jordan

2. **M.Sc. Dissertation**

   A clinical decision support system for heart disease diagnosis, The University of Jordan, Amman, Jordan

3. **Employment**

   Academic Positions

   - Instructor, Faculty of Science and Information Technology, Al-Zaytoonah University of Jordan, Amman, Jordan
     Dec, 2017 – present.
   - Lecturer, Faculty of Science and Information Technology, Al-Zaytoonah University of Jordan, Amman, Jordan
     Sep, 2013 – Dec, 2017

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4. <u>Research Interests</u>

- Machine and Deep learning.
- Medical Informatics.
- Computational Intelligence.
- Parallel and Distributed Computing.
- Interconnection Networks.
- Discrete Mathematics.
- Optimization algorithms

5. <u>Teaching Experience</u>

- *Undergraduate Courses*

  - Computer pre-skills.
  - Technical Skills for Scientific faculties.
  - Introduction to Computer Science.
  - Introduction to Information Technology.
  - Discrete Mathematics.
  - Programming Concepts (C++, Java).
  - Programming Methodologies.
  - Object Oriented Programming.
  - Artificial Intelligence Programming (1+2)
  - Data Science
  - Computing systems for data science

6. <u>Membership of Committees</u>

- **University**

  - The Press Committee.
  - The Quality Assurance Committee.
  - The Activities Committee.
  - The Exams Committee.
  - The Graduates, Equivalency, Training and Guidance Committee
  - Computing and E-Learning Committee

7.   Professional and Scientific Meetings

Scientific Meetings Organized

- The Organization Committee for the International Conference on Information Technology (ICIT) conference, Amman, Jordan, 2014.
- The Publication Committee for ICIT conference, Amman, Jordan,2017.

Participation in Scientific meetings

- Attended International Conference on Information Technology (ICIT) conference, Amman, Jordan, April 2021.
- Participated in the online training course entitled by : **Unlock BioInformatics Bootcamp** (36 hours) with Dr. Basel Abu Jamous., 2021
- Attended the IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), Amman, Jordan, April 2019.
- Attended the Future Trends in Big Data and Advanced Analytics (AI/ML), IEEE-JEA Innovative Technologies Workshop Series in conjunction with JEEIT, Amman, Jordan, April 8, 2019.
- Attended Phi's Research and Innovation Summit 2019, Dead Sea, Jordan, August 5-6,2019.
- Participated in the training course entitled by: Test Construction and Analysis of its Results (15 contact hours), Al-Zaytoonah University of Jordan, Amman, Jordan, 8-10/2018.

8.   Publications

- Papers in refereed journals
  - Al-Mimi H. , **Hamad N.** , Abualhaj M. , Daoud M. , Al-dahoud A., Rasmi M., "An Enhanced Intrusion Detection System for Protecting HTTP Services from Attacks", International Journal of Advances in Soft Computing and its Applications, 15(2),2023, 67-83

  - Nabulsi, M. , **Hamad,N**. and Alqatawneh, S. , "A New Approach for Simplification of Logical Propositions with Two Propositional Variables Using Truth Tables", Recent Advances in Computer Science and Communications 14(9), 2021, 2828 – 2834.

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  - Bader, R , **Hamad, N A.,** *A multi-agent system model for controlling traffic congestions,* ICIC-Express Letters Part B:Applications, 10(9), 2019, 841-847.

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- Jaber, K , **Hamad, N A.,** Quiam, F , *A Framework for Query Optimization* Algorithms for Biological Data, International Journal of Computational and Experimental Science and Engineering,5(2),2019, 76 -79.

- **Hamad, N A**., Quiam, F, Jaber K ; *Methods and Evaluations of Decision Tree Algorithms on GPUS: an Overview*, ICIC-Express Letters, 12(7), 2018, 723-729.

- Nabulsi, M, **Hamad N A.**; *Proofs of Implications Involving Quantifiers Distribution Over Logical Operators*. Journal of Theoretical and Applied Information Technology, 95(12), 2017, 2824 -2829.

- Mahafzah, B, Sleit,A, **Hamad,N A.**, Ahmad, E, Abu-Kabeer, T; *The OTIS hyper hexa-cell optoelectronic architecture.* Computing**,** 94(5), 2012, 411-432.

- Mahafzah, B, Alshraideh, M, Abu-kabeer, T, Ahmad, E , **Hamad, N A. ;** *The Optical Chained-Cubic Tree interconnection network: Topological structure and properties*. Computers and Electrical Engineering**,** 38(2), 2012, 330-345

- Conference Presentations

  -A. Sharieh, **N. A. Hamad**, H. I. Abu Kaf and F. H. Abuadas, "Predicting Patient's Willingness for Colorectal Cancer Screening Practices Using Machine Learning Classifiers," 2023 International Conference on Information Technology (ICIT), Amman, Jordan, 2023, pp. 178-183, doi: 10.1109/ICIT58056.2023.10226053.

  - M. Abujazoh, D. Al-Darras, **N. A. Hamad** and S. Al-Sharaeh, "Feature Selection for High-Dimensional Imbalanced Malware Data Using Filter and Wrapper Selection Methods," 2023 International Conference on Information Technology (ICIT), Amman, Jordan, 2023, pp. 196-201, doi: 10.1109/ICIT58056.2023.10226049.

  - Al-Mimi, H. , **Hamad, N.,** Abualhaj M. "A Model for the Disclosure of Probe Attacks Based on the Utilization of Machine Learning Algorithms", 2023, International Conference on Computer Engineering, Technologies and Applications (CETA 2023)

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- **Hamad, N A.**, Nabulsi, M., Additional New Logical Identities Related to Propositional Logic, In the 2021IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), 14-15 July 2021, Amman, Jordan, 465-468

- **Hamad, N A.**, Nabulsi, M., *Implementing the Unique Existential Quantifier in Digital Logic Design,* In the 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), 9-11 April 2019, Amman, Jordan, 465-468

- Jaber, K, **Hamad, N A. ,** Quiam, F; *A Framework for Query Optimization Algorithms for Biological Data ,* In the 5th International Conference on Computational and Experimental Science and Engineering (ICCESEN-2018), 12-16 October 2018, Antalya, Turkey

- Jaber, k,Ibrahim,D, Al-Sanhani, A , **Hamad, N A.** ; *A Framework for Parallel Boyer-Moore-Quick Search Algorithm (P-BM-QS)*, In the 30th IBIMA Conference, 8-9 November 2017, Madrid, Spain, 1623-1628.