



CURRICULUM VITAE

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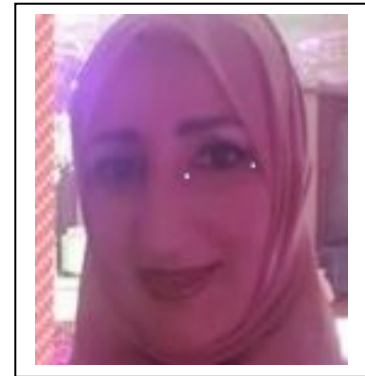
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1. Personal Data

Date of Birth: 23/04/1969

Nationality: Jordanian

2. Education

- Ph.D. (Computer Science/ Artificial Intelligence) 2010, Universiti Sains Malaysia, Penang, Malaysia.
- B.Sc. (**Computer Science**) 1991, United Arab Emirates University, AL-Ain, United Arab Emirates.



3. Ph.D. Dissertation

“A HUMAN COMMUNITY-BASED GENETIC ALGORITHM MODEL (HCBGA)”,
Universiti Sains Malaysia, Penang, Malaysia.

4. Employment

Academic Positions

- Associate Professor, Artificial Intelligence Department, AL-Zaytoonah University of Jordan, Amman, Jordan, 08/02/2022 – Present.
- Assistant Professor, Artificial Intelligence Department, AL-Zaytoonah University of Jordan, Amman, Jordan, 2019 – Present.
- Assistant Professor, Software Engineering Department, AL-Zaytoonah University of Jordan, Amman, Jordan, 2018– 2019.
- Assistant Professor, Computer Science Department, AL-Zaytoonah University of Jordan, Amman, Jordan, 2010 – 2018.
- Graduate Assistant, Computer Science Department, AL-Zaytoonah University of Jordan, Amman, Jordan, 2002-2005.
- Instructor, Computer Science Department, AL-Zaytoonah University of Jordan, Amman, Jordan, 1993-2002.

5. Research Interests:

- 1- Genetic Algorithms.
- 2- ChatBots.
- 3- Machine Learning.
- 4- Network.

6. Teaching Experience

- Graduate Courses

- 1- Advanced computer architecture

- Undergraduate Courses

- 1- Basics of Artificial Intelligence
- 2- Data Sciences and Artificial Intelligence Programming (1) in Python
- 3- Artificial Neural Networks and Deep Learning
- 4- Special Topics in Artificial Intelligence (1)
- 5- Principles of Natural Language Processing



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- 6- Computation Systems for Data Science and Artificial Intelligence
- 7- Digital Image Processing
- 8- Data Sciences and Artificial Intelligence Programming (2) in Python
- 9- Computer Architecture and Organization
- 10- Project Construction Methodology
- 11- Requirements Specification
- 12- Data Structures
- 13- Internet Application Programming (HTML)
- 14- Adobe Premiere
- 15- Macro Media Flash
- 16- Cinema 4D
- 17- Logic design
- 18- Human Computer Interaction
- 19- Spectrum Color.
- 20- Training

7- Membership in Scientific Societies and Associations

- 1- Editorial Committee Member of the International Journal of Advances in Soft Computing and its Applications IJASCA, 2021- present.
- 2- Member of the Scientific Research Group in Egypt (SRGE), 2021- present.

8- Supervision of Graduate Research

- 1- **Hanady Abd Al-razak Al-shawabkeh**, *Enhancing the Hybridization Moth Flam Optimization Algorithm to Solving the Travelling Salesman Problem.* (Master's Supervision, ZUJ, Jordan), 2020.
- 2- **Mohammed Abdul Jawad**, *An Intelligent Road Traffic Management System Based on a Dynamic Routing Technique and Human Community Genetic Algorithm (IRTMS).* (Master's Co- Supervision, ZUJ, Jordan), 2017.

9- Membership of Committees

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| 1. | 2021-present | Member of the Quality Assurance of the Artificial Intelligence Dept. |
| 2. | 2020-2019 | Member of the Equivalency, Counseling, Training and Graduate Committee |
| 3. | 2019-2020 | Member of the University Council |
| 4. | 2021-2020 | Member of the Equivalency, Counseling, Training and Graduate Committee |
| 5. | 2022-present | Member of the ASIC Committee for the Artificial Intelligent Dept. at Al-Zaytoonah university of Jordan. |



10- Professional and Scientific Meetings

Scientific Meeting Organized

1. 2023 **Track Chair** member in the ICIT 2023
2. 2021 **Track Chair** member in the ICIT 2021
3. 2019 **Track Chair** member in the JEEIT 2019
4. 2019 **TPC** member of 2019 ICCIS
5. 2020 **TPC** member of 2020 ICCIS
6. 2017 **TPC** of the ICIT17 of ICIT-AL-Zaytoonah University

Participation in Scientific Meeting

- 1- Participate in the First Conference on VR/AR technology, Amman, Jordan, Nov. 2021.
- 2- Participate in the IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), Amman, Jordan, April 2019.
- 3- International conference of Advances in Intelligent Systems and Computing, Egypt, January 2016.

11- Participation in or organization of curricular and/or extra-curricular activities

1. 2021-2022 Training course - Deep Learning Using Python – Pioneers Academy – 14/02/2022 – 28/03/2022
2. 2022 Training course - Machine Learning Using Python – Pioneers Academy – 13/12/2021 – 02/02/2022
3. 2021-present Member of the Scientific Research Group in Egypt (SRGE).
4. 2021-present Principal Researcher in a Scientific Project entitled "Al-Zaytoonah University Inquiry Smart Chat Bot System" supported by Al-Zaytoonah University of Jordan.
5. 2020 Training course - Introduction to Python: Preparing for Machine Learning- Princess Sumaya University- 2020/01/25 – 2020/01/23
6. 2020-present Member of the International Journal of Advances in Soft Computing and its Applications IJASCA.
7. 2019 Training course - Data Science- Faculty of Engineering- Al-zaytoonah University of Jordan- 06-03-2019



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| 8. | 2017 | Training workshop for women - Women's Rights - Al-zaytoonah University of Jordan -28-04-2017 |
| 9. | 2017 | A course on building achievement tests and analyzing the results- Al-zaytoonah University of Jordan -19-06-2017 |

12- Publications

A. Journal Papers

- 1- **Nagham A. Al-Madi**, Adnan A. Hnaif; *Optimizing Traffic Light signals in smart cities based on E-IRTMS. Computer Systems Science and Engineering, Vol. 40, no. 1, 2022, pages 65–74.*
- 2- Shehab, M., Alshawabkah, H., Abualigah, L. et al. *Enhanced a hybrid moth-flame optimization algorithm using new selection schemes. Engineering with Computers (2020).* <https://doi.org/10.1007/s00366-020-00971-7>.
- 3- **AL-Madi, N. A.** and El-Obaid, A.; *Age Constraints Effectiveness on the Human Community Based Genetic Algorithm (HCBGA)*, IAES International Journal of Artificial Intelligence, Vol. 7, no. 2, 2018, pages 78-82.
- 4- **AL-Madi, N. A.**, Abu Maria, K., Abu Maria, E. and AL-Madi, M. A.; *A Structured-Population Human Community Based Genetic Algorithm (HCBGA) in a Comparison with Both the Standard Genetic Algorithm (SGA) and the Cellular Genetic Algorithm (CGA)*, ICIC Express Letters An International Journal of Research and Surveys, Vol. 12, no. 12, 2018, pages 1183 - 1303.
- 5- Abu Mari, K. A., **AL-Madi N. A.**, Abu Maria, E. A.; *Using Cognitive Agent in Manufacturing Systems.* Journal of Theoretical and Applied Information Technology. Vol. 95. no.10, 2017, pages 2306-2314.
- 6- **AL-Madi, N.A.**, El-Obaid, A. and AL-Madi, M. A.; *Enhanced Structured Population Approach for Genetic Algorithm*, Information Technology Journal, Information Technology Journal vol.16 no.2, 2017, pages 79-84.
- 7- El-Obaid, A., **AL-Madi, N.A.**; *Y-Hamiltonian Layers Broadcast Algorithm.* International Journal of Network Security & Its Application. Vol. 8. no.3, 2016, pages 31-46.



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- 8- **AL-Madi, N.A.**; *De Jong's Sphere Model Test For A Human Community Based Genetic Algorithm Model (HCBGA)*. International Journal of Advanced Computer Science and Applications, Vol. 5. no.1, 2014, pages 166.
- 9- **AL-Madi, N.A.**, Khader, A.T.; *A genetic algorithm that simulates social behaviour*. Int. J. Internet Technology and Secured Transactions, 1 no. 3/4, 2009, pages 228-235.
- 10- **AL-Madi, N.A.**, Khader, A.T.; *The traveling salesman problem as a benchmark test for a social-based genetic algorithm*. Journal of Computer Science, Vol. 4. no.10, 2008, pages 871-876.
- 11- **AL-Madi, N.A.**, Khader, A.T.; *De Jong's sphere model test for a social-based genetic algorithm (HCBGA)*. IJCSNS International Journal of Computer Science and Network Security, Vol. 8. no. 3, 2008, pp.179-185.
- 12- Yahya, A.A., **AL-Madi, N.A.**, AL-Madi, A.K.; *Algorithm for finding some power series*. Jour. Inst. Maths. & Computer Sciences, (Comp. Sc. Ser.), Vol. 13. no.1, 2002, pages 87-91.

C. Conference Papers

- 1- **N. Al-Madi**, M. Al-Madi, W. Alzyadat, K. A. Mariah, A. Al-Khateeb and F. Al-Madi, "Arcaboard: An Overview of the SElectromagnetic HoverBoard," 2023 International Conference on Information Technology (ICIT), Amman, Jordan, 2023, pp. 664-666, doi: 10.1109/ICIT58056.2023.10225770.
- 2- W. Alzyadat, M. Al-Madi, M. Muhairat, **N. Al-Madi** and F. Altarawneh, "A Roadmap for Artificial Intelligence Augmented Software Development Life Cycle: Aspects of Knowledge Vaporization," 2023 International Conference on Information Technology (ICIT), Amman, Jordan, 2023, pp. 794-799, doi: 10.1109/ICIT58056.2023.10226133.
- 3- A. Abzakh, A. A. Alkhatib, O. Rabayah, S. Elmanaseer, R. N. Albustanji and **N. Almadi**, "A Survey: Threat Hunting for the OT Systems," 2023 International Conference on Information Technology (ICIT), Amman, Jordan, 2023, pp. 130-134, doi: 10.1109/ICIT58056.2023.10225758.



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- 4- **Al-Madi, N.A.**, Maria, K.A., Al-Madi, M.A., Alia, M.A. and Maria E.A.; *An Intelligent Arabic Chatbot System Proposed Framework*. 2021 IEEE International Conference on Information Technology (ICIT), 592-597, July 2021.
- 5- Hnaif, A. A., **AL-Madi, N. A.**, A. , Mohammad A A.; *An Intelligent Road Traffic Management System Based on a Human Community Genetic Algorithm*. 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), April 2019, AL-Zaytoonah Univ., Amman, Jordan.
- 6- **AL-Madi, N.A.**; *On Applying Genetic Algorithm to the Traveling Salesman Problem*. International conference of Advances in Intelligent Systems and Computing. Vol. 533, 2016.
- 7- **AL-Madi, N.A.**, Khader, A.T.; *A social-based model for genetic algorithms*. Proceedings of the third International Conference on Information Technology (ICIT), May 9-11 2007, AL-Zaytoonah Univ., Amman, Jordan.