CURRICULUM VITAE

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1. Personal Data

Date of Birth: 23/04/1969
Nationality: Jordanian

2. Education

- Ph.D. (Computer Science/ Artificial Intelligence) 2009, 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

- 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: Genetic Algorithms, Machine Learning, Network.

6. Teaching Experience

- ***Undergraduate Courses***

  Artificial Intelligence, Python, Image Processing, Computer Architecture and Organization, Requirements Specification, Data Structure using Java, HTML, Adobe Premiere, Flash, Cinema 4D, Logic design, Human Computer Interaction, Spectrum Color.

7. Supervision of Graduate Research

1- Hanady Abd Al-razak Al-shawabkeh, "Enhancing the Hybridization Moth Flam Optimization Algorithm to Solving the Travelling Salesman Problem", 2020.

2- Mohammed Abdul Jawad, "An Intelligent Road Traffic Management System Based on a Dynamic Routing Technique and Human Community Genetic Algorithm (IRTMS)", 2017.

8. Publications

- 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

- Hnaif, A. A., **AL-Madi, N. A.,** A. ,Mohammad Amal Ahmad; *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.

- **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.

- **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.

- 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.

- 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.

- **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, pagesssss 166.

- **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.

- **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.

- **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.

- 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.

- **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.

- **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.