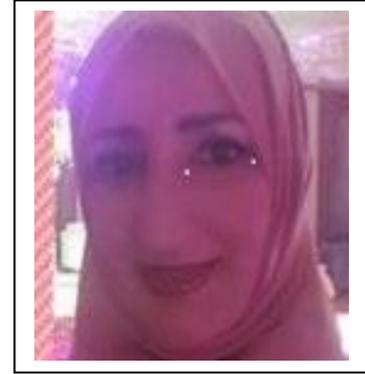| QFG11/0110 - 3.1E | Curriculum Vitae Form - Procedures of Appointment and Promotion Committee |
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# CURRICULUM VITAE

**Full name: Nagham Azmi Al-Madi**

*Artificial Intelligence Department/Faculty*
*of Science and Information Technology,*
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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.

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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- Artificial Intelligence
    2- Python
    3- Artificial Neural Networks
    4- Selected Topics in Artificial Intelligence
    5- Image Processing

6- Data Sciences
7- Computer Architecture and Organization
8- Requirements Specification
9- Data Structure using Java
10- HTML
11- Adobe Premiere
12- Macro Media Flash
13- Cinema 4D
14- Logic design
15- Human Computer Interaction
16- Spectrum Color.

## 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

| | | |
|---|---|---|
| 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. |

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## 10- Professional and Scientific Meetings

### Scientific Meeting Organized

1. 2019    **Track Chair** member in the JEEIT 2019

2. 2019    **TPC** member of 2019 ICCIS

3. 2020    **TPC** member of 2020 ICCIS

4. 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 activites

| | | |
|---|---|---|
| 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 |
| 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 |

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## 12- <u>Publications</u>

### A. <u>Journal Papers</u>

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.

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. <u>Conference Papers</u>

1- **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.

2- 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.

3- **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.

4- **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.