Date: 21/6/2025

CURRICULUM VITAE

Personal Information

Faculty Member Name: Mohammad Shehab
Academic Rank: Associate Prof. Dr.
College: Information Technology
Department: Computer Science
Nationality: Jordanian
Address: Amman
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Academic Qualifications

Degrees with fields, institution, and date

- B.S. in Software Engineering, Al-Zaytoonah University of Jordan, 2009.
- M.Sc. in Computer Science, Universiti Sains Malaysia, 2014.

Project / theses title: Novel Selection Schemes for Particle Swarm Optimization

- Ph.D. in Computer Science, Universiti Sains Malaysia, 2018.

Dissertation title: Enhanced Cuckoo Search Algorithm with Metaheuristic Components for Extracting the Maxima of the Orientation Distribution Function.

Academic Experience

Duration: 2022 – Now

- University: Amman Arab University
- Academic Rank: Assistant Professor
- Date the rank was granted: 2020
- The body granting the rank: Amman Arab University
- College: Information Technology
- Country: Jordan

Duration: 2019 – 2021

- University: The World Islamic Sciences and Education University

- Academic Rank: Assistant Professor
- College: Information Technology
- Country: Jordan

Duration: 2018 – 2019

- University: Aqaba University of Technology
- Academic Rank: Assistant Professor
- College: Information Technology
- Country: Jordan

Certifications or Professional Registrations

-

Current Membership in Professional Organizations

-

Honors and Awards

-

Service Activities

- Master Thesis Discussion Committees (Internal / External Examiner)
- Committee on Ethics of Theses and Dissertations
- Strategic Planning Implementation and Follow-up Unit
- Strategic Planning Committee
- Student Affairs Committee
- Academic Advising Committee

The most Important Publications in last five years

1. Al Hamad, H. A., & Shehab, M. (2024). Improving the Segmentation of Arabic Handwriting Using Ligature Detection Technique. Computers, Materials & Continua, 79(2).
2. Alhamad, H. A., Shehab, M., Shambour, M. K. Y., Abu-Hashem, M. A., Abuthawabeh, A., Al-Aqrabi, H., ... & Shannaq, F. B. (2024). Handwritten recognition techniques: a comprehensive review. Symmetry, 16(6), 681.
3. Shehab, M., Shambour, M. K. Y., Abu Hashem, M. A., Al Hamad, H. A., Shannaq, F., Mizher, M., ... & Abualigah, L. (2024). A survey and recent advances in black widow optimization: variants and applications. Neural Computing and Applications, 1-21.
4. Abualigah, L., Elkhalaifa, L., Ikotun, A. M., AL-Saqqar, F., El-Bashir, M., Sumari, P., ... & Ezugwu, A. E. (2024). Gradient-based optimizer: analysis and application of the Berry software product. In Metaheuristic optimization algorithms (pp. 221-229).
5. Hamad, H., & Shehab, M. (2024). Integrated multi-layer perceptron neural network and novel feature extraction for handwritten Arabic recognition. Int J Data Netw Sci, 8(3), 1501-1516.
6. AlShorman, A., Shannaq, F., & Shehab, M. (2024). Machine learning approaches for enhancing smart contracts security: a systematic literature review. Int J Data Netw Sci, 8(3), 1349-1368.

7. Abu-Hashem, M. A., Shehab, M., Shambour, M. K. Y., Daoud, M. S., & Abualigah, L. (2024). Improved black widow optimization: an investigation into enhancing cloud task scheduling efficiency. Sustainable Computing: Informatics and Systems, 41, 100949.
8. Daoud, M. S., Shehab, M., Abualigah, L., & Thanh, C. L. (2023). Hybrid modified chimp optimization algorithm and reinforcement learning for global numeric optimization. Journal of Bionic Engineering, 20(6), 2896-2915.
9. Abu-Hashem, M. A., Gutub, A., Salem, O., Shambour, M. K., Shambour, Q., Shehab, M., ... & Alrawashdeh, M. J. (2023). Discrepancies of remote techno-tolerance due to COVID-19 pandemic within Arab middle-east countries. Journal of Umm Al-Qura University for Engineering and Architecture, 14(3), 151-165.
10. Daoud, M. S., Shehab, M., Al-Mimi, H. M., Abualigah, L., Zitar, R. A., & Shambour, M. K. Y. (2023). Gradient-based optimizer (GBO): a review, theory, variants, and applications. Archives of Computational Methods in Engineering, 30(4), 2431-2449.
11. Shehab, M., & Abualigah, L. (2022). Opposition-based learning multi-verse optimizer with disruption operator for optimization problems. Soft Computing, 26(21), 11669-11693.

Institutional Professional Development Activities in the last five years

- Preparing the course file and continuous improvement cycle
- Publishing in peer-reviewed international journals
- Academic supervision of university theses and the role of the academic advisor
- Principles and mechanisms for academic course equivalency
- International accreditations and academic rankings
- Jordanian accreditation for academic programs

Research link (Scopus and Google Scholar)

- https://www.scopus.com/authid/detail.uri?authorId=56463820900
- https://scholar.google.com/citations?user=jYMAQQYAAAAJ&hl=en

Languages

- Arabic
- English