Shaymah Akram Yasear

PERSONAL DATA

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EDUCATION

- Ph.D. in Information Technology, School of Computing (SOC), Universiti Utara Malaysia, Malaysia, 2016 - 2020
- MSc in Information Technology, School of Computing (SOC), (CGPA of 3.73/4), Universiti Utara Malaysia, Malaysia, 2014 - 2016
- Bachelor's degree in Computer Science (CGPA of 3/4), Benghazi University, Faculty of Computer Sciences, Libya, 2004 - 2008

AWARD & RECOGNITION

- Silver medal - IRIA 2017, Universiti Utara Malaysia
- Bronze medal - the International Invention, Innovation & Technology Exhibition (ITEX).

PROFESSIONAL EXPERIENCE

- **Lecturer**, Computer Center, Al-Qasim Green University, February 2023-present

- Lecturer, Department of Biomedical Engineering, Al-Mustaqbal University College, April 2021-2023
    - Teach undergraduate courses.
    - Publish research findings in peer-reviewed journals.
    - Advise undergraduate students in research projects.
    - Serve on departmental committees.

- **Research assistant**, School of Computing, Universiti Utara Malaysia, 2018-2019

- **Teaching Assistant**, Faculty of Information Technology, University of Babylon, 2011-2013

ACADEMIC SUPERVISION

- **Project 1**: Cardiac Arrhythmia Classification Using Machine Learning Techniques
    - **Description:** Supervised the design and

implementation of a project aimed at developing a machine learning model for the classification of cardiac arrhythmia

- **Project 2**: Age Estimation from Brain MRI Using Deep Learning Technique
  - **Description**: Provided guidance and mentorship in the development of a project focused on utilizing machine learning techniques for age estimation from brain MRI images.
- **Project 3**: Diabetes Prediction Using Machine Learning Techniques
  - **Description**: Mentored and supervised the implementation of a project aimed at predicting diabetes using machine learning techniques.

PATENT

Secure RFID Authentication Prototype (Patent number my CRLY00004453), Universiti Utara Malaysia.

SKILLS

- Programming: Skilled in Delphi, Matlab
- Experience with optimization algorithms.

PUBLICATIONS

Journals

- **Yasear, S. A.,** and Ghanimi, H. M. (2022). Honey badger algorithm for solving optimal power flow optimization problem. *International Journal of Intelligent Engineering and Systems, 15(4). 10.22266/ijies2022.0831.14*
- Ghanimi, H. M. and **Yasear, S. A.** (2022). A Cognitive Agent Model of Burnout for Front-Line Healthcare Professionals in Times of Covid-19 Pandemic. *International Journal of Intelligent Engineering and Systems, 15*(2). 10.22266/ijies2022.0430.32
- **Yasear, S. A.,** & Ku-Mahamud, K. R. (2021). Fine-tuning the ant colony system algorithm through harris's hawk optimizer for travelling salesman problem. *International Journal of Intelligent Engineering and Systems, 14*(4). 10.22266/ijies2021.0831.13
- **Yasear, S. A.,** & Ku-Mahamud, K. R. (2021). Review of the Multi-objective Swarm Intelligence Optimization Algorithms. *Journal of Information and Communication Technology, 20*(2). https://doi.org/10.32890/jict2021.20.2.3
- **Yasear, S. A.,** & Ku-Mahamud, K. R. (2020). Non-dominated sorting Harris's hawks multi-objective optimizer based on the flush-and-ambush tactic. *International Journal on Advanced Science,*

Engineering and Information Technology, 10(6), 2311-2319. https://doi.org/10.18517/ijaseit.10.6.11504

- **Yasear, S. A.,** & Ku-Mahamud, K. R. (2019). Non-dominated sorting Harris's hawk multi-objective optimizer based on reference point approach. *Indonesian Journal of Electrical Engineering and Computer Science, 15*(3), 1603-1614. http://doi.org/10.11591/ijeecs.v15.i3.pp1603-1614
- **Yasear, S. A.,** & Ku-Mahamud, K. R. (2019). Taxonomy of memory usage in swarm intelligence-based metaheuristics. *Baghdad Science Journal, 16*(20/6/2019), 445-452. https://doi.org/10.21123/bsj.2019.16.2(SI).0445
- **Yasear, S. A.,** Zakaria, N. H., & Omar, M. N. (2017). Enhancing the security of RCIA ultra-lightweight authentication protocol by using Random Number Generator (RNG) technique. Journal of Telecommunication, Electronic and Computer Engineering (JTEC), 9(1-2), 77-80.

Conference proceedings

Yasear, S. A., & Ku-Mahamud, K. R. (2020). Enhanced non-dominated sorting Harris's hawk multi-objective optimizer. In *Proceeding of 2020 3rd International Conference on Advancements in Computational Sciences (ICACS):* (pp. 1-8). IEEE.

Yasear, S. A., & Ku-Mahamud, K. R. (2019). Improved Harris's hawk multi-objective optimizer using two-steps initial population generation method. In *Proceeding of 2019 IEEE 13th International Conference on Application of Information and Communication Technologies (AICT):* (pp. 1-6). IEEE.

Yasear, S. A., & Amphawan, A. (2017). Channel impulse response equalization scheme based on particle swarm optimization algorithm in mode division multiplexing, In Proceeding of EPJ Web of Conferences: (pp. 01023). EDP Sciences.