



WARDA M. SHABAN

جامعة عجلون الوطنية
Ajloun National University



Irbid, Yarmouk University , St



Warda@anu.edu.jo



+962776414976

PROFILE

Assistant Professor of Information Technology with a Ph.D. in Electronics and Communication. Demonstrates strong problem-solving abilities and proficiency in technical documentation. Skilled in both academic and administrative roles, with extensive experience in teaching, lecturing, delivering presentations, and participating in conferences.

Personal Data

Date of birth:01/01/1990

Nationality: Egyptian

EDUCATION

- ◆ **Ph.D** - Electronics and Communication Engineering, Mansoura, Egypt, February (2021)
- ◆ **Master** - Electrical Communication, Mansoura, Egypt, August(2016).
- ◆ **Bachelor** - Electronics and Communication Engineering, Mansoura, Egypt, July (2011).

WORK EXPERIENCE

1. Assistant professor- Computer Science Department Faculty of Information Technology, Ajloun national university. [06 / October/ 2025 - Till now]
2. Assistant Professor, Faculty of Artificial Intelligence and Informatics, Horus University, New Damietta, Egypt. [07/ February/2025- 30/June/2025].
3. Assistant Professor, Chemistry and Criminal Evidence Department, Faculty of Science, Mansoura University. [from 20/September 2024- 30 /January/ 2025].
4. Assistant Professor, Nile Higher Institute for Engineering and Technology, Mansoura, Egypt. [15/September/2021 - 01/ October 2025].
5. Assistant Lecturer, Nile Higher Institute for Engineering and Technology, Mansoura, Egypt. [20/ September /2018 - 20/April/2021].
6. Assistant Lecturer, Biomedical Engineering, Faculty of Engineering, Mansoura University, Egypt. [20/September/ 2018 - 15/July/2020].
7. Assistant Lecturer, Delta Higher Institute of Computers, Mansoura, Egypt. [20/ September /2017- 20/January/2018].
8. Research Assistant, Electronics and Communications Engineering Dept., Faculty of Engineering, Mansoura University, Egypt. [15/ September /2012 - 15/ August 2016].



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SKILLS

- Works in a team
- Research Capabilities
- Effective Communication skills
- Strategic Planning
- Critical Thinking

PROFESSIONAL ACTIVITIES

- Director of Quality Assurance Unit, Nile Higher Institute for Engineering and Technology. [01/August /2024 - 01/October/2025].
- Member of the Institute's Internal review Committee. [21/August /2024 -01/October/2025].
- Deputy Director of Quality Assurance Unit, Nile Higher Institute for Engineering and Technology [21/August /2021 -29/July/2024].

TEACHING EXPERIENCE

1. Bioinformatics
2. Digital Image Processing
3. Software Engineering
4. Logic Design
5. Statistics and probability theory
6. Electronic Devices
7. Principles of Electronic Engineering
8. Digital Communication Systems
9. Electrical Communications
10. Information Coding & Theory
11. Integrated Circuits Design
12. Electrical Materials
13. Electrical Measurements & Testing
14. Electric Circuits 2
15. Engineering Economic
16. Internet Applications
17. Web Design

Languages

Arabic, English.



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Publications

1. **Warda M. Shaban**, et. al., "A new COVID-19 Patients Detection Strategy (CPDS) based on hybrid feature selection and enhanced KNN classifier," Knowledge Based- Systems, Elsevier, 2020.
2. **Warda M. Shaban**, et. al., " Accurate detection of COVID-19 patients based on distance biased Naïve Bayes (DBNB) classification Strategy," Pattern Recognition, Elsevier, 2021.
3. **Warda M. Shaban**, et. al., "Detecting COVID-19 patients based on fuzzy inference engine and Deep Neural Network," Applied Soft Computing, Elsevier, 2021.
4. **Warda M. Shaban**, "Classification of Breast Cancer Using Neutrosophic Techniques and Deep Neural Network," Soft Computing, Springer, 2021
5. **Warda M. Shaban**, "Insight into breast cancer detection: new hybrid feature selection method," Neural Computing and Application, Springer, 2023
6. **Warda M. Shaban**, "Detecting Liver Patients based on new feature selection method and machine learning paradigm," Multimedia Tools & Application, Springer, 2023.
7. **Warda M. Shaban**, et. al., " SMP-DL: a novel stock market prediction approach based on deep learning for effective trend forecasting," Neural Computing and Application, Springer, 2023.
8. **Warda M. Shaban**, et. al., " Predicting solar distiller productivity using an AI Approach: Modified genetic algorithm with Multi-Layer Perceptron," Solar Energy, Elsevier, 2023.
9. **Warda M. Shaban**, et. al., " An in-depth review of AI-based techniques for early diagnosis of breast cancer: Evaluation of CAD system design and classification methodologies," 2023 International Telecommunications Conference (ITC-Egypt), IEEE, 2023.
10. **Warda M. Shaban**, " Breast Cancer Classification based on Artificial Intelligence: State of the Art," Nile Journal of Communication and Computer Science, 2023.
11. **Warda M. Shaban**, "Detection and classification of photovoltaic module defects based on Artificial intelligence," Neural Computing and Application, Springer, 2024.
12. **Warda M. Shaban**, et. al., " Optimizing Photovoltaic Thermal (PV/T) Solar Systems Efficiency through Advanced AI-Driven Thermal Management Techniques," Applied Thermal Engineering, Elsevier, 2024.
13. Fatma M. Talaat, Ahmed R. Elnaggar, **Warda M. Shaban**, Mohamed Shehata and Mostafa Elhosseini, "CardioRiskNet: A Hybrid AI-Based Model for Explainable Risk Prediction and Prognosis in Cardiovascular Disease," Bioengineering, MDPI, 2024.
14. Fatma M. Talaat, A.E. Kabeel, and **Warda M. Shaban**, "The Role of Utilizing Artificial Intelligence and Renewable Energy in Reaching Sustainable Development Goals," Renewable Energy, Elsevier, 2024.
15. **Warda M. Shaban**, et al., "BCDM: A Novel AI-Based Model for detection of Breast Cancer," 1st International Conference on Intelligent Systems, Blockchain, and Communication Technologies, ISBCom 2024. Lecture Notes in Networks and Systems, vol 1268. Springer, Cham. https://doi.org/10.1007/978-3-031-82377-0_38, 2025.
16. Mohamed S. ElGendy, H. Moustafa, Hala Nafea, **Warda M. Shaban**, "A Machine Learning Model Based on the Archimedes Optimization Algorithm for Heart Disease Prediction," International Journal of Telecommunications, 2025.



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Publications

17. Mai Essam Azab, Hanan Amer, **Warda M. Shaban**, Mervat ElSeddek, "Leveraging Artificial Intelligence in the Diagnosis and Management of Diabetic Foot Ulcers: A Review of Current Trends and Future Directions," International Journal of Telecommunications, 2025.
18. **Warda M. Shaban**, et al., "Enhancing the efficiency of lung cancer screening: predictive models utilizing deep learning from CT scans," Neural Computing & Application, Springer, <https://doi.org/10.1007/s00521-025-11084-x>, 2025.
19. Fatma M. Talaat, **Warda M. Shaban**, Mahmoud B Sadawy, Mostafa Elhosseini, "Integrating V2X Solutions in Intelligent Green Cities: An AI-driven Points Exchange System Approach," Neural Computing & Application, Springer, <https://doi.org/10.1007/s00521-025-11187-5>, 2025.
20. M. Elgendy, H. Moustafa, H. Nafea, **Warda M. Shaban**, "Utilizing voting classifiers for enhanced analysis and diagnosis of cardiac conditions," Results In Engineering, Elsevier, Volume 26, 2025.
21. **Warda M. Shaban**, "An AI-Based Automatic Leukemia Classification System Utilizing Dimensional Archimedes Optimization," Scientific Reports, Volume 15, <https://doi.org/10.1038/s41598-025-98400-6>, 2025.
22. F. Talaat, A. Kabeel, **Warda M. Shaban**, "Towards Sustainable Energy Management: Leveraging Explainable Artificial Intelligence for Transparent and Efficient Decision-Making," Sustainable Energy Technologies and Assessments, Elsevier, Volume 78, <https://doi.org/10.1016/j.seta.2025.104348>, 2025.
23. **Warda M. Shaban**, et al., "Enhancing Evaporation Forecasting With AI: A New Algorithm for Managing Lake Nasser's Water Resources in the Face of Climate Change," International Journal of Energy, Environment, and Economics, Volume 32, Number 3, 2025.
24. E. Ashraf, **Warda M. Shaban**, et. al., "Enhancing Photovoltaic Cell Quality Evaluation and Anomaly Detection through Deep Learning," Delta Scientific Journal, Volume 8, 2025.
25. Fatma M Talaat, AE Kabeel, **Warda M. Shaban**, "Powering a Sustainable Future: AI-Driven Integration of Renewables for Optimized Grid Management," Sustainable Futures, Elsevier, <https://doi.org/10.1016/j.sftr.2025.100821>, 2025.
26. Fatma M. Talaat, T. Medhat & **Warda M. Shaban**, "Precise fraud detection and risk management with explainable artificial intelligence," Neural Computing & Application, Springer, <https://doi.org/10.1007/s00521-025-11396-y>, 2025.
27. **Warda M. Shaban**, et al., "An Efficient Explainable AI Model for Accurate Brain Tumor Detection Using MRI Images," Computer Modeling in Engineering & Sciences, Tech Science Press, 2025.
28. **Warda M. Shaban**, "Artificial Intelligence-Based Diagnostic Model for Autism Spectrum Disorder Using Blood Biomarkers," Neural Computing & Application, Springer, <https://doi.org/10.1007/s00521-025-11553-3>, 2025.
29. Fatma M. Talaat and, **Warda M. Shaban** "Optimizing YOLOv9 for automated detection of stroke lesions in brain CT images," Neural Computing & Application, Springer, <https://doi.org/10.1007/s00521-025-11560-4>, 2025.
30. Dalia Magdi, Ibrahim Obaya, Fatma Talaat, and **Warda M. Shaban**, "TransAdaptNet: a transformer-based adaptive learning model for accurate Monkeypox detection and classification," Egyptian Informatics Journal, Elsevier, Volume 32 <https://doi.org/10.1016/j.eij.2025.100782>, 2025.