



Abdulhadi Mohammed

عبدالهادي محمد ادخيل

Professor

PROFILE

Abdul Hadi Mohammed Alaidi is an Associate Professor with a distinguished academic career spanning over a decade. He earned his Bachelor's and Master's degrees in Computer Science from Mustansiriya University (2007) and Bridgeport University (2014), respectively, and is currently pursuing his Doctorate in Information Technology from Uniten, expected in 2024. His research focuses on cybersecurity, artificial intelligence, and data privacy. As a prolific author, Dr. Alaidi has published 28 scholarly articles, with a Google Scholar h-index of 14 and 787 citations, and a Scopus h-index of 12 with 574 citations. His contributions have significantly impacted the fields of computer science and information technology.

ACADEMIC TITLES

2014-06-12	Assistant Professor
2016-03-12	Lecturer
2020-03-12	Associate Professor
2025-03-13	Professor

COURSES

- Network Application
- Introdution to Programming 1

ADMINISTRATIVE POSITIONS

2015-06-01 - 2016-03-31	Computer Center Director
2017-06-01 - 2019-09-01	Electrical Department coordinator
2025-02-17 - Present	Dean Assistant

PUBLICATIONS (3 3)

1. Auto-PPA: An Adaptive Deep RL Agent for VLSI Physical Design Optimization
Journal of VLSI Circuits and Systems 8 (1), 9-19, 2026 | 2026 | Cited: 2
2. Detection of unauthorized devices for exams based on arduino and high-gain antenna
AIP Conference Proceedings 3408 (1), 2026 | 2026
3. AI-Based Model for Home Waste Separation Using Raspberry Pi 5 AI Kit
Physics and Chemistry of Solid State 27 (1), 44-51, 2026 | 2026 | Cited: 2
4. Investigation of the Internet of Things to Track the Distribution Temperature of Transformers with Accounting Residential Loads
<https://link.springer.com/book/10.1007/978-3-031-82881-2>, 2025 | 2025 | Cited: 1
5. AI-based monkeypox detection model using Raspberry Pi 5 AI Kit
Sustainable Engineering and Innovation 7 (1), 1-14, 2025 | 2025 | Cited: 14
6. Using artificial intelligence for enhancement of solar cell efficiency in the south of Iraq
2025 | Cited: 5

CONTACT

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EDUCATION

Bachelor's Degree (2007-06-01)
Computer science
Mustansiriya University

Master's Degree (2014-05-10)
Computer Scsience
Bridgeport University

Doctorate (2024-08-22)
Information Technology
Uniten

RESEARCH METRICS

h-index (Scopus)	13
h-index (GS)	14
Citations (Scopus)	649
Citations (GS)	887
Documents (Scopus)	29
Documents (GS)	33

RESEARCH INTERESTS

- algorithms



7. **Enhancing Cybersecurity in Cyber-Physical Systems: an Explainable AI Approach for Intrusion Detection**
2025 5th International Conference on Emerging Smart Technologies and ...; 2025 | 2025 | Cited: 5
8. **Developing an advanced framework to recognize suspicious vehicles based on the Internet of Things applications using LOGO Net environment**
Journal of Internet Services and Information Security 15 (2), 610-621, 2025 | 2025 | Cited: 1
9. **A Two-Phase Clustering Framework for Adaptive Load Balancing in Vehicular Networks using OPTICS and K-Medoid algorithms**
National Journal of Antennas and Propagation 7 (2), 175-186, 2025 | 2025
10. **AI-Based Arabic Sign Language to Voice Translation System**
Proceedings of the International Conference on Applied Innovations in IT ...; 2025 | 2025
11. **Investigation of AI with OpenCV-Python for Detecting Diabetes**
Conference of Recent Trends and Applications of Soft Computing in ...; 2025 | 2025 | Cited: 4
12. **Using a chaotic digital system to generate random numbers for secure communication on 5G networks**
Engineering, Technology & Applied Science Research 14 (2), 13598-13603, 2024 | 2024 | Cited: 14
13. **Transformer-based automatic Arabic text diacritization**
Sustainable Engineering and Innovation 6 (2), 285-296, 2024 | 2024 | Cited: 8
14. **A Comprehensive Review of Routing in 4G/5G Cellular Networks: Challenges, Trends, and Future Directions**
Journal of Al-Qadisiyah for Computer Science and Mathematics 16 (4), 215–230 ...; 2024 | 2024
15. **Optimizing energy and QoS in VANETs through approximate computation on heterogeneous MPSoC**
2024 4th International Conference on Emerging Smart Technologies and ...; 2024 | 2024 | Cited: 13
16. **Increased Efficiency of the Artificial Bee Colony Algorithm Using the Pheromone Technique**
Engineering, Technology & Applied Science Research 12 (6), 9732-9736, 2022 | 2022 | Cited: 5
17. **DR-LL Gan: diabetic retinopathy lesions synthesis using generative adversarial network**
International Journal of Online and Biomedical Engineering (ijOE), 2022 | 2022 | Cited: 51
18. **Artificial Bee Colony with Crossover Operations for Discrete Problems**
Engineering, Technology & Applied Science Research 12 (6), 9510-9514, 2022 | 2022 | Cited: 11
19. **Automated cheating detection based on video surveillance in the examination classes**
ijIM 16 (08), 125, 2022 | 2022 | Cited: 33
20. **Encryption of Color Image Based on DNA Strand and Exponential Factor**
International journal of online and biomedical engineering | 2022 | Cited: 71
21. **Face patterns analysis and recognition system based on quantum neural network QNN**
ijIM 16 (08), 35, 2022 | 2022 | Cited: 69
22. **Dark web illegal activities crawling and classifying using data mining techniques**
ijIM 16 (10), 123, 2022 | 2022 | Cited: 92
23. **Systematic review of enhancement of artificial bee colony algorithm using ant colony pheromone**
International Journal of Interactive Mobile Technologies 15 (16), 173, 2021 | 2021 | Cited: 34
24. **Design and implementation of a smart traffic light management system controlled wirelessly by arduino**
International Association of Online Engineering, 2020 | 2020 | Cited: 44
25. **Using modern education technique in Wasit university**
International Association of Online Engineering, 2020 | 2020 | Cited: 92
26. **The application of wireless communication in IOT for saving electrical energy**
International Journal of Interactive Mobile Technologies | 2020 | Cited: 69
27. **Analysis the Efficient Energy Prediction for 5G Wireless Communication Technologies.**
Int. J. Emerg. Technol. Learn. 14 (8), 23-37, 2019 | 2019 | Cited: 92
28. **A predictive model for liver disease progression based on logistic regression algorithm**
Periodicals of Engineering and Natural Sciences 7 (3), 2019 | 2019 | Cited: 57

29. **Distributed hybrid method to solve multiple traveling salesman problems**
2018 International Conference on Advance of Sustainable Engineering and its ..., 2018 | 2018 | Cited: 20
30. **Attendance System Design And Implementation Based On Radio Frequency Identification (RFID) And Arduino**
Journal of Advanced Research in Dynamical Control Systems 10 (4), 1342-1347, 2018 | 2018 | Cited: 51
31. **Improvement the Route Discovery Mechanism of Dynamic Source Routing Protocol in MANET**
International Conference on Distributed Computing and High Performance ..., 2018 | 2018 | Cited: 15
32. **Plate Detection and Recognition of Iraqi License Plate Using KNN Algorithm**
Journal of Education College Wasit University 1 (26), 449-460, 2017 | 2017 | Cited: 8
33. **Enhanced a TCP security protocol by using optional fields in TCP header**
Journal of Education College Wasit University 1 (24), 485-502, 2016 | 2016 | Cited: 4