

Abdulhadi Mohammed

عبدالهادي محمد ادخيل

Professor

CONTACT

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EDUCATION

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

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

Doctorate (2024-08-22)
Information Technology
Uniten

RESEARCH METRICS

h-index (Scopus)	14
h-index (GS)	15
Citations (Scopus)	674
Citations (GS)	777
Documents (Scopus)	30
Documents (GS)	36

RESEARCH INTERESTS

• algorithms

PROFILE

Abdulhadi Mohammed Alaidi is a Professor of Information Technology with extensive academic and research experience in computer science. He earned his Ph.D. in Information Technology from Universiti Tenaga Nasional (UNITEN) in 2024, an M.S. in Computer Science from the University of Bridgeport in 2014, and a B.S. in Computer Science from Mustansiriya University in 2007.

Dr. Alaidi's research focuses primarily on cybersecurity, artificial intelligence, data privacy, and algorithm design. Over his career, he has steadily advanced through the academic ranks, earning promotions to Assistant Professor in 2020 and full Professor in 2025.

A prolific researcher, Dr. Alaidi has published 35 scholarly articles in peer-reviewed journals and conference proceedings. His work is recognized for its impact on the field, demonstrated by a Google Scholar h-index of 14 with over 750 citations, as well as a Scopus h-index of 13 with more than 640 citations. Dr. Alaidi continues to contribute to the advancement of secure, intelligent, and efficient computing systems.

ACADEMIC TITLES

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

COURSES

• Network Application

• Introduciton 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 (37)

1. **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

2. **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

3. **Thermal-Aware Particle Swarm Optimization for UAV Medical Delivery Route Planning in Hot-Climate Urban Environments**
Wasit Journal of Engineering Sciences 14 (3), 138-157, 2026 | 2026

4. **AI-Optimized Wake-Up Radio Systems for 6G IoT**
Al-Nahrain Journal for Engineering Sciences 29 (2), 260-272, 2026 | 2026

5. **Detection of unauthorized devices for exams based on arduino and high-gain antenna**
AIP Conference Proceedings 3408 (1), 2026 | 2026

6. **Investigation of AI with OpenCV-Python for Detecting Diabetes**
Conference of Recent Trends and Applications of Soft Computing in ..., 2025 | 2025 | Cited: 4

7. **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

8. **AI-based monkeypox detection model using Raspberry Pi 5 AI Kit**
Sustainable Engineering and Innovation 7 (1), 1-14, 2025 | 2025 | Cited: 14

9. **Using artificial intelligence for enhancement of solar cell efficiency in the south of Iraq**
2025 | Cited: 4

10. **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: 15

11. **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

12. **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

13. **AI-Based Arabic Sign Language to Voice Translation System**
Proceedings of the International Conference on Applied Innovations in IT ..., 2025 | 2025

14. **Optimizing energy and QoS in VANETs through approximate computation on heterogeneous MPSoC**
2024 4th International Conference on Emerging Smart Technologies and ..., 2024 | 2024 | Cited: 19

15. **Transformer-based automatic Arabic text diacritization**
Sustainable Engineering and Innovation 6 (2), 285-296, 2024 | 2024 | Cited: 9

16. **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

17. **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

18. **Increased Efficiency of the Artificial Bee Colony Algorithm Using the Pheromone Technique**
Engineering, Technology & Applied Science Research 12 (6), 9732-9736, 2022 | 2022 | Cited: 4

19. **DR-LL Gan: diabetic retinopathy lesions synthesis using generative adversarial network**
International Journal of Online and Biomedical Engineering (iJOE), 2022 | 2022 | Cited: 44

20. **Artificial Bee Colony with Crossover Operations for Discrete Problems**
Engineering, Technology & Applied Science Research 12 (6), 9510-9514, 2022 | 2022 | Cited: 9

21. **Automated cheating detection based on video surveillance in the examination classes**
iJIM 16 (08), 125, 2022 | 2022 | Cited: 36

22. **Dark web illegal activities crawling and classifying using data mining techniques**
iJIM 16 (10), 123, 2022 | 2022 | Cited: 78

23. **Encryption of Color Image Based on DNA Strand and Exponential Factor**
International journal of online and biomedical engineering | 2022 | Cited: 48

24. **Face patterns analysis and recognition system based on quantum neural network QNN**
iJIM 16 (08), 35, 2022 | 2022 | Cited: 56

25. **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: 28

26. **Using modern education technique in Wasit university**
International Association of Online Engineering, 2020 | 2020 | Cited: 78

27. **Design and implementation of a smart traffic light management system controlled wirelessly by arduino**
International Association of Online Engineering, 2020 | 2020 | Cited: 40

28. **The application of wireless communication in IOT for saving electrical energy**
International Journal of Interactive Mobile Technologies | 2020 | Cited: 64

29. **A predictive model for liver disease progression based on logistic regression algorithm**
Periodicals of Engineering and Natural Sciences 7 (3), 2019 | 2019 | Cited: 52

30. **Analysis the Efficient Energy Prediction for 5G Wireless Communication Technologies.**
Int. J. Emerg. Technol. Learn. 14 (8), 23-37, 2019 | 2019 | Cited: 81

31. **Analysis of the Efficient Energy Prediction for 5G Wireless Communication Technologies**
International Journal of Emerging Technologies in Learning 14 (8), 2019 | 2019 | Cited: 81

32. **Distributed hybrid method to solve multiple traveling salesman problems**
2018 International Conference on Advance of Sustainable Engineering and its ..., 2018 | 2018 | Cited: 19

33. **FTJJ o**
AR i. D. Abed, and C. Systems," Attendance System Design And Implementation ..., 2018 | 2018 | Cited: 7

34. **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: 41

35. **Improvement the Route Discovery Mechanism of Dynamic Source Routing Protocol in MANET**
International Conference on Distributed Computing and High Performance ..., 2018 | 2018 | Cited: 16

36. **Plate Detection and Recognition of Iraqi License Plate Using KNN Algorithm**
Journal of Education College Wasit University 1 (26), 449-460, 2017 | 2017 | Cited: 7

37. **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: 5