



# Abdul Hadi Mohammed Alaidi

عبد الهادي محمد اذخيل

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
2025-03-12	Professor

## COURSES

- Network Application
- Introduction 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 ( 5 1 )

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: 1
2. **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: 1
3. **Detection of unauthorized devices for exams based on arduino and high-gain antenna**  
*AIP Conference Proceedings* 3408 (1), 2026 | 2026
4. **Detection of unauthorized devices for exams based on arduino and high-gain antenna**  
*AIP Conference Proceedings* 3408 (1), 040110, 2026 | 2026
5. **AI-Based Arabic Sign Language to Voice Translation System**  
*Proceedings of the International Conference on Applied Innovations in IT&nbsp;... , 2025 | 2025*
6. **Investigation of AI with OpenCV-Python for Detecting Diabetes**  
*Conference of Recent Trends and Applications of Soft Computing in&nbsp;... , 2025 | 2025 | Cited: 3*

## CONTACT

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Email: alaidi@uowasit.edu.iq  
alaidi@uowasit.edu.iq

## EDUCATION

بكالوريوس (01-06-2007)  
Computer science  
Mustansiriya University

ماجستير (10-05-2014)  
Computer Science  
Bridgeport University

دكتوراه (22-08-2024)  
Information Technology  
Uniten

## RESEARCH METRICS

h-index (Scopus)	12
h-index (GS)	14
Citations (Scopus)	620
Citations (GS)	864
Documents (Scopus)	28
Documents (GS)	33

## RESEARCH INTERESTS

- algorithms



7. **Investigation of the Internet of Things to Track the Distribution Temperature of Transformers with Accounting Residential Loads**  
*Conference of Recent Trends and Applications of Soft Computing in&nbsp;..., 2025 | 2025 | Cited: 1*
8. **AI-based monkeypox detection model using Raspberry Pi 5 AI Kit**  
*Sustainable Engineering and Innovation 7 (1), 1-14, 2025 | 2025 | Cited: 1*
9. **AI-based monkeypox detection model using Raspberry Pi 5 AI Kit**  
*Sustainable Engineering and Innovation 7 (1), 1-14, 2025 | 2025 | Cited: 11*
10. **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*
11. **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*
12. **Using artificial intelligence for enhancement of solar cell efficiency in the south of Iraq**  
*2025 | Cited: 4*
13. **Enhancing Cybersecurity in Cyber-Physical Systems: an Explainable AI Approach for Intrusion Detection**  
*2025 5th International Conference on Emerging Smart Technologies and&nbsp;..., 2025 | 2025 | Cited: 5*
14. **Investigation of AI with OpenCV-Python for Detecting Diabetes**  
*Conference of Recent Trends and Applications of Soft Computing in&nbsp;..., 2024 | 2024 | Cited: 3*
15. **Investigation of the Internet of Things to Track the Distribution Temperature of Transformers with Accounting Residential Loads**  
*Conference of Recent Trends and Applications of Soft Computing in&nbsp;..., 2024 | 2024 | Cited: 1*
16. **Transformer-based automatic Arabic text diacritization**  
*2024 | Cited: 6*
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&nbsp;..., 2024 | 2024*
18. **Transformer-based automatic Arabic text diacritization**  
*Sustainable Engineering and Innovation 6 (2), 285-296, 2024 | 2024 | Cited: 8*
19. **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: 13*
20. **Optimizing Energy and QoS in VANETs through Approximate Computation on Heterogeneous MPSoC**  
*2024 4th International Conference on Emerging Smart Technologies and&nbsp;..., 2024 | 2024 | Cited: 13*
21. **Dark web illegal activities crawling and classifying using data mining techniques**  
*ijIM 16 (10), 123, 2022 | 2022 | Cited: 72*
22. **Face patterns analysis and recognition system based on Quantum Neural Network QNN**  
*Int. J. Interac. Mob. Tech 16 (8), 35-48, 2022 | 2022 | Cited: 58*
23. **Face patterns analysis and recognition system based on Quantum Neural Network QNN**  
*ijIM 16 (08), 35, 2022 | 2022 | Cited: 67*
24. **DR-LL Gan: diabetic retinopathy lesions synthesis using generative adversarial network**  
*International Journal of Online and Biomedical Engineering (ijOE), 2022 | 2022 | Cited: 49*
25. **Encryption of Color Image Based on DNA Strand and Exponential Factor.**  
*International Journal of Online & Biomedical Engineering 18 (3), 2022 | 2022 | Cited: 69*
26. **Dark web illegal activities crawling and classifying using data mining techniques.**  
*ijIM 16 (10), 123, 2022 | 2022 | Cited: 62*
27. **Face patterns analysis and recognition system based on Quantum Neural Network QNN**  
*ijIM 16 (08), 35, 2022 | 2022 | Cited: 49*
28. **DR-LL Gan: Diabetic Retinopathy Lesions Synthesis using Generative Adversarial Network.**  
*International Journal of Online & Biomedical Engineering 18 (3), 2022 | 2022 | Cited: 48*

29. **Automated Cheating Detection based on Video Surveillance in the Examination Classes**  
*ijim 16 (08), 125, 2022 | 2022 | Cited: 30*
30. **Artificial Bee Colony with Crossover Operations for Discrete Problems**  
*Engineering, Technology & Applied Science Research 12 (6), 9510-9514, 2022 | 2022 | Cited: 11*
31. **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*
32. **Dark web illegal activities crawling and classifying using data mining techniques**  
*ijim 16 (10), 123, 2022 | 2022 | Cited: 92*
33. **Automated Cheating Detection based on Video Surveillance in the Examination Classes**  
*International Journal of Interactive Mobile Technologies 16 (08), 125, 2022 | 2022 | Cited: 16*
34. **DR-LL Gan: Diabetic Retinopathy lesions synthesis using Generative Adversarial Network**  
*International journal of online and biomedical engineering 18 (3), 151-163, 2022 | 2022 | Cited: 51*
35. **Encryption of Color Image Based on DNA Strand and Exponential Factor**  
*International journal of online and biomedical engineering | 2022*
36. **Face Patterns Analysis and Recognition System Based on Quantum Neural Network QNN.**  
*International Journal of Interactive Mobile Technologies | 2022*
37. **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: 33*
38. **Design and implementation of a smart traffic light management system controlled wirelessly by arduino**  
*International Association of Online Engineering, 2020 | 2020 | Cited: 43*
39. **The Application of Wireless Communication in IOT for Saving Electrical Energy.**  
*Int. J. Interact. Mob. Technol. 14 (1), 152-160, 2020 | 2020 | Cited: 69*
40. **Using modern education technique in Wasit university**  
*International Association of Online Engineering, 2020 | 2020 | Cited: 90*
41. **The application of wireless communication in IOT for saving electrical energy**  
*International Journal of Interactive Mobile Technologies | 2020*
42. **Analysis of the Efficient Energy Prediction for 5G Wireless Communication Technologies**  
*International Journal of Emerging Technologies in Learning 14 (8), 2019 | 2019 | Cited: 92*
43. **A predictive model for liver disease progression based on logistic regression algorithm**  
*Periodicals of Engineering and Natural Sciences 7 (3), 1255-1264, 2019 | 2019 | Cited: 38*
44. **Analysis the Efficient Energy Prediction for 5G Wireless Communication Technologies.**  
*Int. J. Emerg. Technol. Learn. 14 (8), 23-37, 2019 | 2019 | Cited: 92*
45. **A predictive model for liver disease progression based on logistic regression algorithm**  
*Periodicals of Engineering and Natural Sciences 7 (3), 2019 | 2019 | Cited: 56*
46. **A predictive model for liver disease progression based on logistic regression algorithm**  
*Periodicals of Engineering and Natural Sciences (PEN) 7 (3), 1255-1264, 2019 | 2019 | Cited: 60*
47. **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: 50*
48. **Distributed hybrid method to solve multiple traveling salesman problems**  
*2018 International Conference on Advance of Sustainable Engineering and its&nbsp;..., 2018 | 2018 | Cited: 20*
49. **Improvement the Route Discovery Mechanism of Dynamic Source Routing Protocol in MANET**  
*International Conference on Distributed Computing and High Performance&nbsp;..., 2018 | 2018 | Cited: 15*
50. **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*
51. **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*