



# Jasim Mohammed musa

جاسم محمد موسى الطعان

Professor

## ACADEMIC TITLES

2025-10-19

Professor

## TEACHING EXPERIENCE

Faculty member / Lecturer / Instructor

College of Basic Education

2009-07 - Present

## COURSES

- Grammar
- Grammar

## GRADUATE SUPERVISION

Grammatical Rationales in the Commentaries on \*Al-I'rāb 'an Qawā'id al-I'rāb\* by Ibn Hishām al-Anṣārī (d. 761 AH): Al-Kāfījī (d. 879 AH), Khālīd al-Azhārī (d. 905 AH), and Al-Qūjawī (d. 950 AH).  
Murtada Adnan Ayed (2027)

## PUBLICATIONS ( 3 7 )

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. **Thermal-Aware Particle Swarm Optimization for UAV Medical Delivery Route Planning in Hot-Climatic Urban Environments**  
*Wasit Journal of Engineering Sciences* 14 (3), 138-157, 2026 | 2026
3. **Detection of unauthorized devices for exams based on arduino and high-gain antenna**  
*AIP Conference Proceedings* 3408 (1), 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. **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
6. **Enhancing cybersecurity in cyber-physical systems: an explainable AI approach for intrusion detection**  
*2025 5th international conference on emerging smart technologies and&nbsp;sp;...; 2025 | 2025 | Cited: 13*
7. **AI-based monkeypox detection model using Raspberry Pi 5 AI Kit**  
*Sustainable Engineering and Innovation* 7 (1), 1-14, 2025 | 2025 | Cited: 14
8. **Enhancing Cybersecurity in Cyber-Physical Systems: an Explainable AI Approach for Intrusion Detection**  
*2025 5th International Conference on Emerging Smart Technologies and&nbsp;sp;...; 2025 | 2025 | Cited: 13*
9. **Using artificial intelligence for enhancement of solar cell efficiency in the south of Iraq**  
*2025 | Cited: 4*

## CONTACT

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## EDUCATION

دكتوراه (23-01-2017)

the language

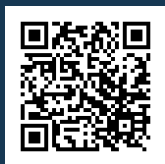
Wasit

## RESEARCH METRICS

|                    |     |
|--------------------|-----|
| h-index (Scopus)   | 0   |
| h-index (GS)       | 15  |
| Citations (Scopus) | 0   |
| Citations (GS)     | 774 |
| Documents (Scopus) | 0   |
| Documents (GS)     | 36  |

## RESEARCH INTERESTS

- Linguistic Inquiries in Quranic Exegesis
- Linguistic Issues



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. **AI-Based Arabic Sign Language to Voice Translation System**  
*Proceedings of the International Conference on Applied Innovations in IT&nbsp;...,, 2025 | 2025*
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. **Transformer-based automatic Arabic text diacritization**  
*Sustainable Engineering and Innovation* 6 (2), 285-296, 2024 | 2024 | Cited: 9
14. **Investigation of AI with OpenCV-Python for Detecting Diabetes**  
*Conference of Recent Trends and Applications of Soft Computing in&nbsp;...,, 2024 | 2024 | Cited: 4*
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*
16. **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
17. **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: 17*
18. **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
19. **Automated cheating detection based on video surveillance in the examination classes**  
*ijIM* 16 (08), 125, 2022 | 2022 | Cited: 36
20. **Dark web illegal activities crawling and classifying using data mining techniques**  
*ijIM* 16 (10), 123, 2022 | 2022 | Cited: 75
21. **Artificial Bee Colony with Crossover Operations for Discrete Problems**  
*Engineering, Technology & Applied Science Research* 12 (6), 9510-9514, 2022 | 2022 | Cited: 9
22. **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
23. **Face Patterns Analysis and Recognition System Based on Quantum Neural Network QNN.**  
*International Journal of Interactive Mobile Technologies* | 2022 | Cited: 54
24. **Encryption of Color Image Based on DNA Strand and Exponential Factor**  
*International journal of online and biomedical engineering* | 2022 | Cited: 47
25. **DR-LL Gan: diabetic retinopathy lesions synthesis using generative adversarial network**  
*International Journal of Online and Biomedical Engineering (ijOE)*, 2022 | 2022 | Cited: 42
26. **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: 26
27. **Using modern education technique in Wasit university**  
*International Association of Online Engineering*, 2020 | 2020 | Cited: 76
28. **Design and implementation of a smart traffic light management system controlled wirelessly by arduino**  
*International Association of Online Engineering*, 2020 | 2020 | Cited: 40
29. **The application of wireless communication in IOT for saving electrical energy**  
*International Journal of Interactive Mobile Technologies* | 2020 | Cited: 64
30. **A predictive model for liver disease progression based on logistic regression algorithm**  
*Periodicals of Engineering and Natural Sciences* 7 (3), 2019 | 2019 | Cited: 52
31. **Analysis the Efficient Energy Prediction for 5G Wireless Communication Technologies.**  
*Int. J. Emerg. Technol. Learn.* 14 (8), 23-37, 2019 | 2019 | Cited: 79

32. **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: 39*
33. **FTJ] o**  
*AR i. D. Abed, and C. Systems," Attendance System Design And Implementation&nbsp;..., 2018 | 2018 | Cited: 7*
34. **Improvement the Route Discovery Mechanism of Dynamic Source Routing Protocol in MANET**  
*International Conference on Distributed Computing and High Performance&nbsp;..., 2018 | 2018 | Cited: 16*
35. **Distributed hybrid method to solve multiple traveling salesman problems**  
*2018 International Conference on Advance of Sustainable Engineering and its&nbsp;..., 2018 | 2018 | Cited: 18*
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: 4*