Haider Thiab Salim ALRikabi

حيدر ذياب سالم حمادي الركابي

CONTACT

Phone: 07732212637

Email: hdhiyab@uowasit.edu.iq

hdhiyab@uowasit.edu.iq

EDUCATION

(01-01-2006) بكلوريوس

Electrical Engineering

Mustansiriyah University

(01-01-2014) ماجستير

Communication Engineering

CSUF

(01-01-2025) دكتوراه

Communication Engineering

Mustansiriyah University

RESEARCH METRICS

h-index (Scopus)	36
h-index (GS)	43
Citations (Scopus)	2867
Citations (GS)	4582
Documents (Scopus)	110
Documents (GS)	161

TEACHING EXPERIENCE

Lecturer

Wasit University

2014-01 - Present

COURSES

- Analog and Digital Communication Systems
- Control Systems
- fundamentals of Electric Circuits
- Control System Lab
- Communication Lab
- Research Methodology
- Digital Control System
- Digital Control System
- Security and Privacy in IoT
- Logical Design

PUBLICATIONS (229)

1. **Deep Learning and Blockchain for Smart Grids: Integration, Challenges, and Future Directions**
   E3S Web of Conferences 694, 03002, 2026 | 2026
2. **Fractal-Based Energy Harvesting Antenna for Wireless Charging of Low-Power Electronics**
   National Journal of Antennas and Propagation 8 (1), 111-123, 2026 | 2026
3. **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
4. **Design of a Hybrid AI-Driven Engineering Model for Energy-Efficient and Sustainable Educational Systems.**
   International Journal of Engineering Pedagogy 16 (1), 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: 1
6. **Lens Assisted Massive Antenna for mm-Wave Communication Systems**
   Journal of Applied Research and Technology 24 (2), 169-178, 2026 | 2026
7. **Design of a Hybrid AI-Driven Engineering Model for Energy-Efficient and Sustainable Educational Systems.**
   International Journal of Engineering Pedagogy 16 (1), 87, 2026 | 2026
8. **Detection of unauthorized devices for exams based on arduino and high-gain antenna**
   AIP Conference Proceedings 3408 (1), 040110, 2026 | 2026
9. **Seamless rectifying for irregular boundaries at image stitching: Integrating image augmentation, parallel pooling, and convolution layers**
   AIP Conference Proceedings 3408 (1), 040119, 2026 | 2026
10. **Eyeball movement frequency detection using histogram filtering algorithm**
    AIP Conference Proceedings 3408 (1), 040120, 2026 | 2026

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

12. **AI-based monkeypox detection model using Raspberry Pi 5 AI Kit**
Sustainable Engineering and Innovation 7 (1), 1-14, 2025 | 2025 | Cited: 11

13. **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

14. **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

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

16. **Design and experimental evaluation of a reconfigurable intelligent surface for wireless applications**
Results in Engineering 26, 104694, 2025 | 2025 | Cited: 18

17. **Utilizing Machine Learning Techniques to Predict University Students' Digital Competence**
International Journal of Engineering Pedagogy 15 (3), 75–91, 2025 | 2025 | Cited: 11

18. **Advances in Electrical and Computer Technologies: Proceedings of the 6th International Conference on Advances in Electrical and Computer Technologies (ICAECT 2024 ...**
CRC Press, 2025 | 2025 | Cited: 9

19. **Reconfigurable intelligent surfaces with smart antenna opportunities and challenges**
AIP Conference Proceedings 3255 (1), 040009, 2025 | 2025 | Cited: 3

20. **Investigation of an Interference Communication System to Overcome Cheating Based on IoT Techniques**
Conference of Recent Trends and Applications of Soft Computing in ..., 2025 | 2025 | Cited: 6

21. **Challenging the optimizing of reconfigurable intelligent surfaces with wireless MIMO-OFDM technology**
AIP Conference Proceedings 3305 (1), 040003, 2025 | 2025 | Cited: 1

22. **Using the Interstage Data Processing Method to Improve the Efficiency of Airspace Surveillance Systems**
International Conference on Applied Innovations in IT 1338, 519-535, 2025 | 2025 | Cited: 2

23. **A Model for Optimizing Packet Length in Airspace Surveillance Systems**
International Conference on Applied Innovations in IT 1338, 501-518, 2025 | 2025 | Cited: 3

24. **An Investigation into The Societal Attitudes and Acceptance of Treated Wastewater Reuse in An Area Experiencing Water Scarcity**
E3S Web of Conferences 621, 03003, 2025 | 2025 | Cited: 1

25. **The importance of reconfigurable intelligent surfaces in communication systems**
Advances in Electrical and Computer Technologies, 231-240, 2025 | 2025

26. **Recent Trends and Applications of Soft Computing in Engineering (RTASCE)--Sarajevo**
Springer, 2025 | 2025

27. **Challenges and approaches of face recognition: A review**
AIP Conference Proceedings 3169 (1), 030026, 2025 | 2025

28. **ANALYSISAND IMPROVEMENT OF INFORMATION SECURITY TECHNOLOGIES IN DISTRIBUTED AND ASYMMETRIC SYSTEMS**
Complexity 60 (70), 75, 2025 | 2025

29. **Designing and optimizing RIS unit cell with CST for mm-waves**
Journal of Applied Research and Technology 23 (4), 334-340, 2025 | 2025

30. **Ribonucleic Acid (RNA) Cancer Clustering Using Directional Local-Binary-Pattern and Self-Organizing Map Network (SOM)**
Journal of Internet Services and Information Security 15 (2), 125-135, 2025 | 2025 | Cited: 1

31. **Investigation of AI with OpenCV-Python for Detecting Diabetes**
Conference of Recent Trends and Applications of Soft Computing in ..., 2025 | 2025 | Cited: 3

32. **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 ..., 2025 | 2025 | Cited: 1

33. **Energyaware collaborative routing protocol using bio-inspired algorithms for heterogeneous wireless sensor networks**
J Adv Inf Technol 16 (5), 696-709, 2025 | 2025 | Cited: 4

34. **Review of the Reconfigurable Intelligent Surfaces in Smart Cities: Opportunities, Challenges, and Applications**
IET Smart Cities 7 (1), e70003, 2025 | 2025 | Cited: 13

35. **Transformer-based automatic Arabic text diacritization**
Sustainable Engineering and Innovation 6 (2), 285-296, 2024 | 2024 | Cited: 8

36. **A dumbbell shape reconfigurable intelligent surface for mm-wave 5G application**
International Journal of Intelligent Engineering and Systems 17 (6), 569-582, 2024 | 2024 | Cited: 15

37. **Automatic human age estimation from face images using MLP and RBF neural network algorithms in secure communication networks**
Sustainable Engineering and Innovation 6 (2), 185-198, 2024 | 2024 | Cited: 9

38. **Design of a High Gain Yagi-Uda Antenna Array for VHF-Band Radar Applications**
Engineering, Technology & Applied Science Research 14 (5), 17188-17195, 2024 | 2024 | Cited: 4

39. **Open engineering: The optimal allocation of thyristor-controlled series compensators for enhancement HVAC transmission lines Iraqi super grid by using seeker optimization algorithm**
de Gruyter, 2024 | 2024

40. **Employing topology optimization method to create optimum telecommunication tower design structure**
Sustainable Engineering and Innovation 6 (2), 261-274, 2024 | 2024 | Cited: 1

41. **Automatic human age estimation from face images using MLP and RBF neural network algorithms in secure communication networks**
2024 | Cited: 1

42. **Development and implementation of a microstrip antenna for autonomous vehicles and IoT in 5G communication systems**
Journal of Applied Research and Technology 22 (6), 816-822, 2024 | 2024 | Cited: 4

43. **Classification and removal of hazy images based on a transmission fusion strategy using the Alexnet network**
Karbala International Journal of Modern Science 10 (2), 14, 2024 | 2024 | Cited: 6

44. **The optimal allocation of thyristor-controlled series compensators for enhancement HVAC transmission lines Iraqi super grid by using seeker optimization algorithm**
Open Engineering 14 (1), 20220499, 2024 | 2024 | Cited: 8

45. **Reconfigurable Intelligent Surfaces Between the Reality and Imagination**
Wasit Journal of Computer and Mathematics Science 3 (2), 42-50, 2024 | 2024 | Cited: 8

46. **A Dumbbell Shape Reconfigurable Intelligent Surface for mm-wave 5G Application.**
International Journal of Intelligent Engineering & Systems 17 (6), 2024 | 2024 | Cited: 12

47. **Information and Communication Technology and its Impact on Improving the Quality of Engineering Education Systems.**
International Journal of Engineering Pedagogy 14 (1), 2024 | 2024 | Cited: 21

48. **E-learning in the Cloud Computing Environment: Features, Architecture, Challenges, and Solutions.**
International Journal of Engineering Pedagogy 14 (1), 2024 | 2024 | Cited: 13

49. **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

50. **Transformer-based automatic Arabic text diacritization**
2024 | Cited: 6

51. **Enhancement of Online Education in Engineering College Based on Mobile Wireless Communication Networks and IOT**
International Journal of Emerging Technologies in Learning (iJET) 18 (01), 2023 | 2023 | Cited: 99

52. **Enhancement the Educational Technology by Using 5G Networks**
International Journal of Emerging Technologies in Learning (iJET) 18 (01), 2023 | 2023 | Cited: 74

53. **Digital citizenship for faculty of Iraqi universities**
Periodicals of Engineering and Natural Sciences 11 (2), 263-274, 2023 | 2023 | Cited: 24

54. **Gender Recognition of Human from Face Images Using Multi-Class Support Vector Machine (SVM) Classifiers.**
International Journal of Interactive Mobile Technologies 17 (8), 2023 | 2023 | Cited: 30

55. **A Novel Method of Invisible Video Watermarking Based on Index Mapping and Hybrid DWT-DCT**
International Journal of Online and Biomedical Engineering(iJOE) 19 (04 ..., 2023 | 2023 | Cited: 27

56. **Optimization of capacity in non-Gaussian noise models with and without fading channels for sustainable communication systems**
Heritage and Sustainable Development 5 (2), 239, 2023 | 2023 | Cited: 21

57. **A Control System of DC Motor Speed: Systematic Review**
Wasit Journal of Computer and Mathematics Sciences 2 (1), 93-111, 2023 | 2023 | Cited: 12

58. **Secured Transfer and Storage Image Data for Cloud Communications.**
International Journal of Online & Biomedical Engineering 19 (6), 2023 | 2023 | Cited: 37

59. **An Investigation into Faults of PV system using Machine Learning: A Systematic Review**
2023 Third International Conference on Advances in Electrical, Computing ..., 2023 | 2023 | Cited: 6

60. **The effect of irradiance, tilt angle, and partial shading on PV performance**
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61. **Enhancement of the Fifth Generation of Wireless Communication by Using a Search Optimization Algorithm**
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62. **Detection of power transmission lines faults based on voltages and currents values using K-nearest neighbors**
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63. **Adaptive HDR Image Blind Watermarking Approach Based on Redundant Discrete Wavelet Transform.**
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64. **Design and analysis of a DC motor speed drive with generalized regression neural network (GRNN) and invasive weed optimization (IWO) algorithms**
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65. **Tuning of PID Controller for Speed Control of DC-Motor by using Generalized Regression Neural Network and Invasive Weed Optimization**
Wasit Journal of Engineering Sciences 11 (3), 45-56, 2023 | 2023 | Cited: 1

66. **Detecting and diagnosing faults in PV systems based on machine learning techniques using MATLAB**
4TH INTERNATIONAL SCIENTIFIC CONFERENCE OF ALKAFEEL UNIVERSITY (ISCKU 2022 ..., 2023 | 2023 | Cited: 1

67. **Watermark hiding in HDR image based on visual saliency and tucker decomposition**
Karbala International Journal of Modern Science 9 (3), 6, 2023 | 2023 | Cited: 3

68. **Fault Detection System of Photovoltaic Based on Artificial Neural Network**
Wasit Journal of Engineering Sciences 11 (1), 93-104, 2023 | 2023 | Cited: 4

69. **A survey on the latest FET technology for samsung industry**
4TH INTERNATIONAL SCIENTIFIC CONFERENCE OF ALKAFEEL UNIVERSITY (ISCKU 2022 ..., 2023 | 2023 | Cited: 3

70. **Enhancement the Educational Technology by Using 5G Networks.**
International Journal of Emerging Technologies in Learning 18 (1), 137, 2023 | 2023

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79. **Enhancing the efficiency of photovoltaic power system by submerging it in the rivers**
Telkomnika (Telecommunication Computing Electronics and Control) 20 (1), 166-172, 2022 | 2022 | Cited: 21

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115. **Analysis of the problems of electricity in Iraq and recommendations of methods of overcoming them**
Periodicals of Engineering and Natural Sciences 10 (1), 607-614, 2022 | 2022 | Cited: 30

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128. **Design and Implementation a Smart System for Monitoring the Electrical Energy based on the Internet of Things**
Wasit Journal of Engineering Sciences 10 (2), 92-100, 2022 | 2022 | Cited: 8

129. **High-Flow Nasal Cannula Versus Noninvasive Ventilation in Patients With Acute Exacerbation of Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-analysis of ...**
American Journal of Therapeutics, 10.1097, 2022 | 2022

130. **Enhancement the Efficiency of Solar Cell by using Internet of Things Applications**
Wasit Journal of Engineering Sciences 10 (1), 2022 | 2022

131. **ICCSIE 2022**
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132. **EFFICIENCY ASSESSMENT OF USING GENERATION FACILITIES WITH LANDFILL GAS**
Интеллектуальная электротехника 4, 95-111, 2022 | 2022

133. **Efficiency assess-ment of using eneration facilities with landfill gas**
Smart Electrical Engineering 4 (95-111), 2022 | 2022

134. **Eliminate the Migration of Farmers to Cities by Supporting Renewable Energy Projects**
International Journal of Recent Contributions from Engineering, Science & IT ..., 2022 | 2022

135. **Design and Implementation a Smart System for Monitoring the Electrical Energy based on the Internet of Things Applications**
WASIT JOURNAL OF ENGINEERING SCIENCES 10 (2), 2022 | 2022

136. **Design and Implementation a system for Monitoring the COVID19 patients Based on the Internet of Thing Applications**
International Journal of Recent Contributions from Engineering, Science & IT ..., 2022 | 2022

137. **Li-Fi future technology, architecture, and their constraints**
Texas Journal of Engineering and Technology 9, 167-174, 2022 | 2022 | Cited: 4

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WASIT JOURNAL OF ENGINEERING SCIENCES 10 (1), 2022 | 2022 | Cited: 7

139. **Investigation the factors affecting on the performance of PV system**
AIP Conference Proceedings 2394 (1), 090016, 2022 | 2022 | Cited: 6

140. **Study the effect of Environmental Factors on the performance of Photovoltaic Module**
Wasit Journal of Engineering Sciences 10, 2022 | 2022 | Cited: 32

141. **Effect of augmented reality technology on spatial intelligence among high school students**
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142. **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

143. **Evaluation of the Interference's Impact of Cooperative Surveillance Systems Signals Processing for Healthcare**
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144. **Enhancement of the efficiency of solar energy cells by selecting suitable places based on the simulation of PV System**
Periodicals of Engineering and Natural Sciences 10 (2), 2022 | 2022 | Cited: 12

145. **Impact of Cloud, Rain, Humidity, and Wind Velocity on PV Panel Performance**
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