Haydar Abdulameer Marhoon

حيدر عبد الامير مرهون عبود الخفاجي

Associate Professor

ACADEMIC TITLES

2012-09-01	Assistant Professor
2017-01-20	Lecturer
2020-06-11	Associate Professor

ADMINISTRATIVE POSITIONS

2012-06-01 - 2012-09-01	Network Admin
2003-07-01 - 2012-01-01	Engineering
2020-12-01 - Present	Vice-Chancellor

PUBLICATIONS (149)

1. **ECT-DLM: Deep Learning-Based Empirical Curvelet Transform Approach**
   ICT for Intelligent Systems: Proceedings of ICTIS 2025, Volume 2 2, 37, 2026 | 2026
2. **Towards intelligent air quality forecasting using integrated machine learning framework with variational mode decomposition and catboost feature selection**
   Scientific Reports, 2026 | 2026 | Cited: 1
3. **A novel augmented reality and reinforcement learning empowered communication framework for underwater unmanned autonomous vehicle**
   Scientific Reports, 2026 | 2026
4. **Secure IoMT smartwatch-based blood glucose monitoring using multimodal activity and nutrition data with transfer learning**
   Scientific Reports, 2026 | 2026
5. **Traffic congestion estimation and control: A comprehensive review of the applied computational intelligence models**
   Archives of Computational Methods in Engineering 33 (1), 339-400, 2026 | 2026 | Cited: 3
6. **An evolutionary optimized automated machine learning approach to soil unconfined compressive strength prediction for sustainable transportation infrastructure**
   Transportation Geotechnics 52, 101550, 2025 | 2025 | Cited: 5
7. **A PEGASIS RP based-wireless sensor network-enabled smart contact lens for real time ocular monitoring**
   Results in Engineering 26, 105285, 2025 | 2025 | Cited: 2
8. **LEACH-based approach using first-order model for energy efficient routing in WSNs for mobile diabetes patient monitoring**
   J Wireless Mobile Netw Ubiquitous Comput, 2025 | 2025 | Cited: 2
9. **ECT-DLM: Deep Learning-Based Empirical Curvelet Transform Approach for Thoracic Disease Diagnosis from X-RAY Images**
   International Conference on Information and Communication Technology for ..., 2025 | 2025
10. **A PEGASIS RP based-Wireless Sensor Network-Enabled Smart Contact Lens for Real Time Ocular Monitoring**
    Results in Engineering, 105285, 2025 | 2025 | Cited: 2

CONTACT

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EDUCATION

بكلوريوس (01-07-2003)
Control and System Engineering
UOTechnology

ماجستير (20-02-2012)
Computer Networks
UUM

دكتوراه (20-01-2017)
Computer Networks
UUM

RESEARCH METRICS

h-index (Scopus)	22
h-index (GS)	24
Citations (Scopus)	1607
Citations (GS)	1973
Documents (Scopus)	86
Documents (GS)	94

RESEARCH INTERESTS

• ,Computer Network, WSN, Wireless Communication, Machines Learning AI

11. **An evolutionary optimized automated machine learning approach to soil unconfined compressive strength prediction for sustainable transportation infrastructure**
Transportation Geotechnics, 101550, 2025 | 2025 | Cited: 4

12. **Traffic Congestion Estimation and Control: A Comprehensive Review of the Applied Computational Intelligence Models**
Archives of Computational Methods in Engineering, 1-62, 2025 | 2025 | Cited: 1

13. **A Barrier-Based Machine Learning Approach for Intrusion Detection in Wireless Sensor Networks.**
Computers, Materials & Continua 82 (3), 2025 | 2025 | Cited: 1

14. **Blockchain-Integrated Edge-Cloud-Enabled Healthcare Data Analytics Based on Distributed Federated Learning and Deep Neural Networks**
Mesopotamian Journal of CyberSecurity 5 (3), 1122-1140, 2025 | 2025

15. **Privacy-preserving communication in smart city transportation using elliptic curve cryptography**
Scientific Reports 15 (1), 34342, 2025 | 2025 | Cited: 2

16. **Adaptive Federated Learning Empowered Wireless Localization Framework Using Vehicle Sensors**
Journal of Applied Science and Technology Trends 6 (2), 2025 | 2025

17. **ECT-DLM: Deep Learning Based Empirical Curvelet Transform Approach for Thoracic Disease Diagnosis from X-RAY Images**
ICTIS 2025, 2025 | 2025

18. **Optimizing engineering design problems using adaptive differential learning teaching-learning-based optimization: Novel approach**
Expert Systems with Applications, 126425, 2025 | 2025

19. **Optimizing engineering design problems using adaptive differential learning teaching-learning-based optimization: Novel approach**
Expert Systems with Applications 270, 126425, 2025 | 2025 | Cited: 5

20. **DCSSGA-UNet: Biomedical image segmentation with DenseNet channel spatial and Semantic Guidance Attention**
Knowledge-Based Systems 314, 113233, 2025 | 2025 | Cited: 75

21. **Designing Wireless Sensor Network Data Based Machine Learning Approach for Accurate Human Activity Recognition.**
J. Internet Serv. Inf. Secur. 15 (1), 385-400, 2025 | 2025 | Cited: 12

22. **LEACH-based approach using first-order model for energy efficient routing in WSNs for mobile diabetes patient monitoring**
J Wireless Mobile Netw Ubiquitous Comput Dependable Appl. 2025; 16 (2): 105 ..., 2025 | 2025 | Cited: 2

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Mesopotamian Journal of CyberSecurity 5 (3), 1122-1140, 2025 | 2025

24. **Augmented IoT cooperative vehicular framework based on distributed deep blockchain networks**
IEEE Internet of Things Journal 11 (22), 35825-35838, 2024 | 2024 | Cited: 23

25. **Edge-cloud remote sensing data-based plant disease detection using deep neural networks with transfer learning**
IEEE Journal of Selected Topics in Applied Earth Observations and Remote ..., 2024 | 2024 | Cited: 35

26. **Federated-reinforcement learning-assisted IoT consumers system for kidney disease images**
IEEE Transactions on Consumer Electronics 70 (4), 7163-7173, 2024 | 2024 | Cited: 21

27. **FDCNN-AS: Federated deep convolutional neural network Alzheimer detection schemes for different age groups**
Information Sciences 677, 120833, 2024 | 2024 | Cited: 19

28. **A deep learning fusion model for accurate classification of brain tumours in Magnetic Resonance images**
CAAI Transactions on Intelligence Technology 9 (4), 790-804, 2024 | 2024 | Cited: 49

29. **Fiber-optics IoT healthcare system based on deep reinforcement learning combinatorial constraint scheduling for hybrid telemedicine applications**
Computers In Biology And Medicine 178, 108694, 2024 | 2024 | Cited: 13

30. **FDCNN-AS: Federated Deep Convolutional Neural Network Alzheimer Detection Schemes for Different Age Groups**
Information Sciences, 120833, 2024 | 2024 | Cited: 2

31. **Optimal distribution grid allocation of reactive power with a focus on the particle swarm optimization technique and voltage stability**
Scientific Reports 14 (1), 10889, 2024 | 2024 | Cited: 11

32. **Fiber-Optics IoT Healthcare System Based on Deep Reinforcement Learning Combinatorial Constraint Scheduling for Hybrid Telemedicine Applications**
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33. **Federated-Reinforcement Learning-Assisted IoT Consumers System for Kidney Disease Images**
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34. **A Metaverse Framework for IoT-Based Remote Patient Monitoring and Virtual Consultations Using AES-256 Encryption**
Applied Soft Computing, 111588, 2024 | 2024

35. **An SDN-enabled Fog Computing Framework for WBAN Applications in the Healthcare Sector**
Internet of Things, 101150, 2024 | 2024

36. **A secure mist-fog-assisted cooperative offloading framework for sustainable smart city development**
Digital Communications and Networks, 2024 | 2024 | Cited: 4

37. **Optimized ensemble deep random vector functional link with nature inspired algorithm and boruta feature selection: Multi-site intelligent model for air quality index forecasting**
Process Safety and Environmental Protection 191, 1737-1760, 2024 | 2024 | Cited: 10

38. **DT-LSMAS: Digital Twin-Assisted Large-Scale Multiagent System for Healthcare Workflows**
IEEE Systems Journal, 2024 | 2024 | Cited: 13

39. **Retraction notice to “The effect of green belt as an environmentally friendly approach on energy consumption reduction in buildings”[Sustain. Energy Technol. Assessments 53 ...**
Sustainable Energy Technologies and Assessments, 103828, 2024 | 2024

40. **Enhanced Diagnostic Precision: Deep Learning for Tumors Lesion Classification in Dermatology.**
Intelligent Automation & Soft Computing 39 (6), 2024 | 2024

41. **Optimization of Routing and Cluster Head Selection in WSN: A Survey**
International Conference on Forthcoming Networks and Sustainability in the ..., 2024 | 2024 | Cited: 1

42. **PSO-CHS Routing Protocol for Energy Consumption Enhancement in Wireless Sensor Networks**
2024 4th International Conference on Mobile Networks and Wireless ..., 2024 | 2024

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46. **Optimal distribution grid allocation of reactive power with a focus on the particle swarm optimization technique and voltage stability**
scientific reports 14 (1), 10889, 2024 | 2024 | Cited: 14

47. **Securing healthcare data in industrial cyber-physical systems using combining deep learning and blockchain technology**
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IEEE Internet of Things Journal, 2024 | 2024 | Cited: 7

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51. **A metaverse framework for IoT-based remote patient monitoring and virtual consultations using AES-256 encryption**
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57. **Coupled extreme gradient boosting algorithm with artificial intelligence models for predicting compressive strength of fiber reinforced polymer-confined concrete**
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58. **Edge-Cloud Remote Sensing Data Based Plant Disease Detection Using Deep Neural Networks With Transfer Learning**
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Applied Energy 369, 123535, 2024 | 2024 | Cited: 26

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63. **Daily scale river flow forecasting using hybrid gradient boosting model with genetic algorithm optimization**
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65. **Secure blockchain assisted Internet of Medical Things architecture for data fusion enabled cancer workflow**
Internet of Things 24, 100928, 2023 | 2023 | Cited: 29

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Journal of Bionic Engineering 20 (1), 81-104, 2023 | 2023 | Cited: 24

75. **Multiobjective optimization of a hybrid electricity generation system based on waste energy of internal combustion engine and solar system for sustainable environment**
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76. **Implementation of a new research indicator to QS ranking system**
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77. **Daily Scale River Flow Forecasting Using Hybrid Gradient Boosting Model with Genetic Algorithm Optimization**
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78. **Modeling and investigating electric power output maximization for piezoelectric energy harvester**
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79. **Machine learning algorithms for high-resolution prediction of spatiotemporal distribution of air pollution from meteorological and soil parameters**
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80. **Daily Scale Streamflow Forecasting Based-Hybrid Gradient Boosting Machine Learning Model**
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81. **Augmented reality of online and physical retailing: A study of applications and its value**
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82. **Fast Fourier Transform Coupled with Machine Learning Algorithm for K-Complexes Detection**
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83. **Impact of 5G on the digital marketing industry: Study of selected use cases**
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88. **Industrial Internet of Water Things architecture for data standarization based on blockchain and digital twin technology**
Journal of Advanced Research, 2023 | 2023

89. **Augmented reality of online and physical retailing: A study of applications and its value**
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90. **Impact of artificial intelligence (AI) in the media and entertainment industry**
AIP Conference Proceedings 2736 (1), 060012, 2023 | 2023 | Cited: 12

91. **Building business resilience and productivity in the healthcare industry with the integration of robotic process automation technology**
AIP Conference Proceedings 2736 (1), 060008, 2023 | 2023 | Cited: 6

92. **Role of artificial intelligence in analyzing and predicting consumer behavior**
AIP Conference Proceedings 2736 (1), 060016, 2023 | 2023 | Cited: 8

93. **A mathematical model for the vehicles routing problem with multiple depots, considering the possibility of return using the tabu search algorithm**
Public Health 2, 2711-1857, 2022 | 2022 | Cited: 3

94. **Noise reduction and mammography image segmentation optimization with novel QIMFT-SSA method**
Computer Optics | 2022

95. **Estimation from Photoplethysmography Signal**
Health Information Science: 11th International Conference, HIS 2022, Virtual ..., 2022 | 2022

96. **A mathematical model for the vehicles routing problem with multiple depots, considering the possibility of return using the tabu search algorithm**
Foundations Of Computing And Decision Sciences 47 (4), 359-370, 2022 | 2022 | Cited: 3

97. **Fast Fourier Transform Coupled with Machine Learning Algorithm for K-Complexes Detection**
Proceedings of Third Doctoral Symposium on Computational Intelligence: DoSCI ..., 2022 | 2022

98. **An Intelligence Approach for Blood Pressure Estimation from Photoplethysmography Signal**
International Conference on Health Information Science, 54-63, 2022 | 2022

99. **Efficient Time-Sensitive Routing Protocol for Wireless Sensor Network (ETSRP)**
2022 International Symposium on Multidisciplinary Studies and Innovative ..., 2022 | 2022 | Cited: 1

100. **Multi-objective Mathematical Modeling for Scheduling Machines in Parallel with Batch Processors**
Industrial Engineering & Management Systems 21 (2), 366-380, 2022 | 2022 | Cited: 1

101. **The effect of green belt as an environmentally friendly approach on energy consumption reduction in buildings**
Sustainable Energy Technologies and Assessments 53, 102363, 2022 | 2022 | Cited: 2

102. **Moderating role of compassion in the link between fear of Coronavirus disease and mental health among undergraduate students**
Frontiers in psychiatry 13, 990678, 2022 | 2022 | Cited: 1

103. **A Mixed Hierarchical Topology To Ameliorate The Efficiency Of Wireless Sensor Networks: A Survey**
2022 International Congress on Human-Computer Interaction, Optimization and ..., 2022 | 2022 | Cited: 2

104. **A mathematical model for the vehicles routing problem with multiple depots, considering the possibility of return using the tabu search algorithm**
Foundations of Computing and Decision Sciences 47, 2022 | 2022 | Cited: 1

105. **Smartphone-Based Techniques Using Carbon Dot Nanomaterials for Food Safety Analysis**
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106. **Prediction of molecular diffusivity of organic molecules based on group contribution with tree optimization and SVM models**
Journal of Molecular Liquids 353, 118808, 2022 | 2022 | Cited: 9

107. **A review on material analysis of food safety based on fluorescence spectrum combined with artificial neural network technology**
Food Science and Technology 42, e118721, 2022 | 2022 | Cited: 12

108. **Groundwater level prediction using machine learning models: A comprehensive review**
Neurocomputing 489, 271-308, 2022 | 2022 | Cited: 421

109. **Optimized video internet of things using elliptic curve cryptography based encryption and decryption**
Computers and Electrical Engineering 101, 108022, 2022 | 2022 | Cited: 80

110. **Multiple machine learning models for prediction of CO2 solubility in potassium and sodium based amino acid salt solutions**
Arabian Journal of Chemistry 15 (3), 103608, 2022 | 2022 | Cited: 43

111. **A comprehensive review on pulsed laser deposition technique to effective nanostructure production: Trends and challenges**
Optical and Quantum Electronics 54 (8), 488, 2022 | 2022 | Cited: 150

112. **Implementation of AdaBoost and genetic algorithm machine learning models in prediction of adsorption capacity of nanocomposite materials**
Journal of Molecular Liquids 350, 118527, 2022 | 2022 | Cited: 53

113. **SDN-assisted technique for traffic control and information execution in vehicular adhoc networks**
Computers and Electrical Engineering 102, 108108, 2022 | 2022 | Cited: 25

114. **Determinant of covariance matrix model coupled with adaboost classification algorithm for EEG seizure detection**
Diagnostics 12 (1), 74, 2022 | 2022 | Cited: 11

115. **Hybrid wavelet-gene expression programming and wavelet-support vector machine models for rainfall-runoff modeling**
Water Science & Technology 86 (12), 3205-3222, 2022 | 2022 | Cited: 12

116. **Optimization and design of machine learning computational technique for prediction of physical separation process**
Arabian Journal of Chemistry 15 (4), 103680, 2022 | 2022 | Cited: 20

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Foundations of Computing and Decision Sciences 47 (4), 359-370, 2022 | 2022 | Cited: 3

118. **RETRACTED: Moderating role of compassion in the link between fear of Coronavirus disease and mental health among undergraduate students**
Frontiers in psychiatry 13, 990678, 2022 | 2022 | Cited: 2

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120. **A novel alcoholic EEG signals classification approach based on adaboost k-means coupled with statistical model**
Health Information Science: 10th International Conference, HIS 2021 ..., 2021 | 2021 | Cited: 10

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122. **Adopting explicit and implicit social relations by SVD++ for recommendation system improvement**
TELKOMNIKA (Telecommunication Computing Electronics and Control) 19 (2), 471-478, 2021 | 2021 | Cited: 8

123. **Comparison of performance among forwarding strategies in CCN: Disaster scenarios**
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127. **An advanced classification of cloud computing security techniques: A survey**
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131. **Hybrid bat-ant colony optimization algorithm for rule-based feature selection in health care**
International Journal of Electrical and Computer Engineering (IJECE) 10 (6 ..., 2020 | 2020 | Cited: 24

132. **Direct line routing protocol to reduce delay for chain based technique in wireless sensor network**
Karbala International Journal of Modern Science 6 (2), 11, 2020 | 2020 | Cited: 12

133. **Backbone construction mechanism for deterministic node deployment routing protocols in WSNs**
AIP Conference Proceedings 2144 (1), 2019 | 2019 | Cited: 2

134. **Enhancing transmission control protocol performance for Mobile Ad-hoc network**
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Journal of Physics: Conference Series 1032 (1), 012054, 2018 | 2018 | Cited: 9

138. **Energy efficient chain based routing protocol for deterministic node deployment in wireless sensor networks**
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143. **Evaluation of Combination of ACK Filtering and ACK Congestion Control with Pure TCP/NewReno protocol in Asymmetry Network**
The islamic college university journal, 2014 | 2014

144. **Performance Evaluation of RED and REM Algorithms in TCP/IP Networks**
journal of kerbala university 1 (المؤتمر العلمي الاول لكلية العلوم), 2013 | 2013 | Cited: 1

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Universiti Utara Malaysia, 2012 | 2012

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J Wireless Mobile Netw Ubiquitous Comput Dependable Appl. 2025; 16 (2): 105 ..., 0 | 0 | Cited: 1

148. **Digital Communications and Networks**
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