# Haider Thiab Salim ALRikabi

حيدر ذياب سالم حمادي الركابي

## CONTACT


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## 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) | 2802 |
| Citations (GS) | 4452 |
| Documents (Scopus) | 102 |
| Documents (GS) | 156 |

## 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 (195)

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. **AI-based monkeypox detection model using Raspberry Pi 5 AI Kit**
   *Sustainable Engineering and Innovation 7 (1), 1-14, 2025 | 2025 | Cited: 7*
7. **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*
8. **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*
9. **Using artificial intelligence for enhancement of solar cell efficiency in the south of Iraq**
   *2025 | Cited: 4*
10. **Design and experimental evaluation of a reconfigurable intelligent surface for wireless applications**
    *Results in Engineering 26, 104694, 2025 | 2025 | Cited: 13*

11. **Utilizing Machine Learning Techniques to Predict University Students' Digital Competence**
*International Journal of Engineering Pedagogy 15 (3), 75–91, 2025 | 2025 | Cited: 7*

12. **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*

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

14. **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*

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

16. **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*

17. **A Model for Optimizing Packet Length in Airspace Surveillance Systems**
*International Conference on Applied Innovations in IT 1338, 501-518, 2025 | 2025 | Cited: 2*

18. **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*

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

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

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

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

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

24. **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*

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

26. **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*

27. **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*

28. **Review of the Reconfigurable Intelligent Surfaces in Smart Cities: Opportunities, Challenges, and Applications**
*IET Smart Cities 7 (1), e70003, 2025 | 2025 | Cited: 11*

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

30. **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: 13*

31. **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: 6*

32. **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: 3*

33. **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*

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

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

36. **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*

37. **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: 5*

38. **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*

39. **Reconfigurable Intelligent Surfaces Between the Reality and Imagination**
*Wasit Journal of Computer and Mathematics Science 3 (2), 42-50, 2024 | 2024 | Cited: 7*

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

41. **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: 17*

42. **E-learning in the Cloud Computing Environment: Features, Architecture, Challenges, and Solutions.**
*International Journal of Engineering Pedagogy 14 (1), 2024 | 2024 | Cited: 11*

43. **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: 8*

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

45. **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: 98*

46. **Enhancement the Educational Technology by Using 5G Networks**
*International Journal of Emerging Technologies in Learning (iJET) 18 (01), 2023 | 2023 | Cited: 72*

47. **Digital citizenship for faculty of Iraqi universities**
*Periodicals of Engineering and Natural Sciences 11 (2), 263-274, 2023 | 2023 | Cited: 19*

48. **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: 28*

49. **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: 25*

50. **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: 20*

51. **A Control System of DC Motor Speed: Systematic Review**
*Wasit Journal of Computer and Mathematics Sciences 2 (1), 93-111, 2023 | 2023 | Cited: 10*

52. **Secured Transfer and Storage Image Data for Cloud Communications.**
*International Journal of Online & Biomedical Engineering 19 (6), 2023 | 2023 | Cited: 34*

53. **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*

54. **The effect of irradiance, tilt angle, and partial shading on PV performance**
*AIP Conference Proceedings 2457 (1), 050008, 2023 | 2023 | Cited: 10*

55. **Enhancement of the Fifth Generation of Wireless Communication by Using a Search Optimization Algorithm**
*International Journal of Online and Biomedical Engineering(iJOE) 19 (11 ..., 2023 | 2023 | Cited: 10*

56. **Detection of power transmission lines faults based on voltages and currents values using K-nearest neighbors**
*International Journal of Power Electronics and Drive Systems (IJPEDS) 14 (02 ..., 2023 | 2023 | Cited: 9*

57. **Adaptive HDR Image Blind Watermarking Approach Based on Redundant Discrete Wavelet Transform.**
*International Journal of Interactive Mobile Technologies 17 (10), 2023 | 2023 | Cited: 4*

58. **Design and analysis of a DC motor speed drive with generalized regression neural network (GRNN) and invasive weed optimization (IWO) algorithms**
*4TH INTERNATIONAL SCIENTIFIC CONFERENCE OF ALKAFEEL UNIVERSITY (ISCKU 2022 ..., 2023 | 2023 | Cited: 3*

59. **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*

60. **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*

61. **Watermark hiding in HDR image based on visual saliency and tucker decomposition**
*Karbala International Journal of Modern Science 9 (3), 6, 2023 | 2023 | Cited: 1*

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

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

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

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

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

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

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

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

70. **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*

71. **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*

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

73. **ICCSIE 2022**
*2022*

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

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

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

77. **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*

78. **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*

79. **Li-Fi future technology, architecture, and their constraints**
*Texas Journal of Engineering and Technology 9, 167-174, 2022 | 2022 | Cited: 3*

80. **Enhancing the Efficiency of Solar Cell Based on the Internet of Things Applications**
*WASIT JOURNAL OF ENGINEERING SCIENCES 10 (1), 2022 | 2022 | Cited: 6*

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

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

83. **Effect of augmented reality technology on spatial intelligence among high school students**
*2022 | Cited: 69*

84. **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: 50*

85. **Evaluation of the Interference's Impact of Cooperative Surveillance Systems Signals Processing for Healthcare**
*International journal of online and biomedical engineering 18 (3), 43-59, 2022 | 2022 | Cited: 47*

86. **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*

87. **Impact of Cloud, Rain, Humidity, and Wind Velocity on PV Panel Performance**
*WASIT JOURNAL OF ENGINEERING SCIENCES 10 (2), 2022 | 2022 | Cited: 12*

88. **Impact of temperature and dust deposition on PV panel performance**
*AIP conference proceedings 2394 (1), 090044, 2022 | 2022 | Cited: 16*

89. **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*

90. **Computational Thinking (CT) Among University Students.**
*International Journal of Interactive Mobile Technologies 16 (10), 2022 | 2022 | Cited: 64*

91. **Design a system for an approved video copyright over cloud based on biometric iris and random walk generator using watermark technique**
*Periodicals of Engineering and Natural Sciences 10 (1), 178-187, 2022 | 2022 | Cited: 68*

92. **Smart learning based on Moodle E-learning platform and digital skills for University students**
*International Journal of Recent Contributions from Engineering, Science & IT ..., 2022 | 2022 | Cited: 74*

93. **Encryption of Color Image Based on DNA Strand and Exponential Factor.**
*International Journal of Online & Biomedical Engineering 18 (3), 101-113, 2022 | 2022 | Cited: 69*

94. **Secure Chaos of 5G Wireless Communication System Based on IOT Applications**
*International Journal of Online and Biomedical Engineering(iJOE) 18 (12 ..., 2022 | 2022 | Cited: 77*

95. **Automated Cheating Detection based on Video Surveillance in the Examination Classes**
*iJIM 16 (08), 125, 2022 | 2022 | Cited: 27*

96. **Dark web illegal activities crawling and classifying using data mining techniques**
*iJIM 16 (10), 123, 2022 | 2022 | Cited: 88*

97. **Face patterns analysis and recognition system based on Quantum Neural Network QNN**
*iJIM 16 (08), 35, 2022 | 2022 | Cited: 66*

98. **A Novel Method of Multimodal Medical Image Fusion Based on Hybrid Approach of NSCT and DTCWT**
*International Journal of Online & Biomedical Engineering 18 (3), 114-133, 2022 | 2022 | Cited: 148*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

116. **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*

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

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

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

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

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

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

123. **Design and implementation control system for a self-balancing robot based on internet of things by using Arduino microcontroller**
*Periodicals of Engineering and Natural Sciences 9 (3), 409-417, 2021 | 2021 | Cited: 35*

124. **Credit Card Fraud Detection Using Fuzzy Rough Nearest Neighbor and Sequential Minimal Optimization with Logistic Regression.**
*International journal of interactive mobile technologies 15 (5), 2021 | 2021 | Cited: 119*

125. **Tactical thinking and its relationship with solving mathematical problems among mathematics department students**
*International Journal of Emerging Technologies in Learning (iJET) 16 (9 ..., 2021 | 2021 | Cited: 99*

126. **Design and Implementation of Smart City Applications Based on the Internet of Things**
*International Journal of Interactive Mobile Technologies 15 (13), 4-15, 2021 | 2021 | Cited: 186*

127. **Enhanced data security of communication system using combined encryption and steganography**
*iJIM 15 (16), 145, 2021 | 2021 | Cited: 159*

128. **The Impact of Teaching by Using STEM Approach in The Development of Creative Thinking and Mathematical Achievement Among the Students of The Fourth Scientific Class.**
*International Journal of Interactive Mobile Technologies 15 (13), 2021 | 2021 | Cited: 170*

129. **Monitoring the Consumption of Electrical Energy Based on the Internet of Things Applications.**
*International Journal of Interactive Mobile Technologies 15 (7), 2021 | 2021 | Cited: 58*

130. **Encryption System for Hiding Information Based on Internet of Things**
*International Association of Online Engineering, 2021 | 2021 | Cited: 65*

131. **The impact of CATs on mathematical thinking and logical thinking among fourth-class scientific students**
*International Journal of Emerging Technologies in Learning 16 (10), 194-211, 2021 | 2021 | Cited: 91*

132. **The Detection of Counterfeit Banknotes Using Ensemble Learning Techniques of AdaBoost and Voting.**
*International Journal of Intelligent Engineering & Systems 14 (1), 2021 | 2021 | Cited: 92*

133. **Cloud computing and its impact on online education**
*IOP Conference Series: Materials Science and Engineering 1094 (1), 012024, 2021 | 2021 | Cited: 91*

134. **Mobile Application to Detect Covid-19 Pandemic by Using Classification Techniques: Proposed System.**
*International Journal of Interactive Mobile Technologies 15 (16), 2021 | 2021 | Cited: 61*

135. **Anticipating atrial fibrillation signal using efficient algorithm**
*International Association of Online Engineering, 2021 | 2021 | Cited: 64*

136. **Controlling and monitoring a robot-car based on smart phone applications**
*IOP conference series: Materials science and engineering 1094 (1), 012096, 2021 | 2021 | Cited: 18*

137. **Design and Implementation of Sunlight Tracking Based on the Internet of Things**
*IOP Conference Series: Earth and Environmental Science 877 (012026), 11, 2021 | 2021 | Cited: 17*

138. **Using Internet of Things application for Monitoring Photo-Voltaic Panel Based on Ask Sensors Cloud**
*Design Engineering, 3884-3896, 2021 | 2021 | Cited: 15*

139. **Design and implementation of a smart system for school children tracking**
*IOP conference series: materials science and engineering 1090 (1), 012033, 2021 | 2021 | Cited: 14*

140. **Economic Feasibility Study of a Hybrid Power Station Between Solar Panels and Wind Turbine with The National Grid in Al- Hayy City in the Central of Iraq**
*IOP Conf. Series: Materials Science and Engineering 1184 (012001), 2021 | 2021 | Cited: 14*

141. **Potentiometric determination of fexofenadinehydrochloride drug by fabrication of liquid membrane electrodes**
*Egyptian Journal of Chemistry 64 (11), 6293-6300, 2021 | 2021 | Cited: 9*

142. **Using IoT Applications for Detection and Monitoring of Underground Cable Fault**
*IOP Conf. Series: Materials Science and Engineering 1184 (012003), 2021 | 2021 | Cited: 11*

143. **A comprehensive system for detection of flammable and toxic gases using IoT**
*Periodicals of Engineering and Natural Sciences (PEN) 9 (2), 702-711, 2021 | 2021 | Cited: 50*

144. **Generation of high dynamic range for enhancing the panorama environment**
*Bulletin of Electrical Engineering and Informatics 10 (1), 138-147, 2021 | 2021 | Cited: 60*

145. **Internet of Things (IoT) application in the assessment of learning process**
*IOP Conference Series: Materials Science and Engineering 1184 (1), 012002, 2021 | 2021 | Cited: 55*

146. **Using cooling system for increasing the efficiency of solar cell**
*Journal of Physics: Conference Series 1973 (1), 012129, 2021 | 2021 | Cited: 31*

147. **Finding the discriminative frequencies of motor electroencephalography signal using genetic algorithm**
*TELKOMNIKA 19 (1), 285-291, 2021 | 2021 | Cited: 42*

148. **Abnormal behavior detection of students in the examination hall from surveillance videos**
*Advanced Computational Paradigms and Hybrid Intelligent Computing ..., 2021 | 2021 | Cited: 40*

149. **Design and implementation control system for a self-balancing robot based on internet of things by using Arduino microcontroller**
*Periodicals of Engineering and Natural Sciences (PEN) 9 (3), 409-417, 2021 | 2021 | Cited: 38*

150. **Impact of Substrate Temperatures On the Properties of V2O5 Thin Films Deposited by Pulsed Laser Deposition**
*Journal of Physics: Conference Series 1973 (1), 012074, 2021 | 2021 | Cited: 7*

151. **Advanced Computational Paradigms and Hybrid Intelligent Computing**
*2021 | Cited: 6*

152. **Al-zubidi and Haider TH**
*Salim ALRikabi," Design and implementation control system for a self ..., 2021 | 2021 | Cited: 4*

153. **Salim, Design and Implementation of Smart City Applications Based on the Internet of Things**
*International Journal of Interactive Mobile Technologies (iJIM) 15 (13), July, 2021 | 2021*

154. **The influence E-Learning platforms of Undergraduate Education in Iraq**
*International Journal of Recent Contributions from Engineering, Science & IT ..., 2021 | 2021 | Cited: 38*

155. **Potentiometric Determination of Fexofenadine Hydrochloride Drug by Fabrication of Liquid Membrane Electrodes. Egypt**
*J. Chem 64, 6293-6300, 2021 | 2021 | Cited: 5*

156. **zubidi, and HTS ALRikabi," Design and implementation control system for a self-balancing robot based on internet of things by using Arduino microcontroller**
*Period. Eng. Nat. Sci 9 (3), 409, 2021 | 2021 | Cited: 6*

157. **A comprehensive system for detection of flammable and toxic gases using IoT**
*Periodicals of Engineering and Natural Sciences 9 (2), 702-711, 2021 | 2021 | Cited: 47*

158. **Al-Dabag Mohand Lokman and Salim Alrikabi Haider Th. 2021 Encryption System for Hiding Information Based on Internet of Things**
*International Journal of Interactive Mobile Technologies (iJIM) 15, 2021 | 2021 | Cited: 2*

159. **Smart shopping system with RFID technology based on internet of things (2020)**
*DOI: https://doi. org/10.3991/ijim. v14i04 13511, 2020 | 2020 | Cited: 2*

160. **Enhancement of educational services by using the internet of things applications for talent and intelligent schools**
*Periodicals of Engineering and Natural Sciences 8 (4), 2020 | 2020 | Cited: 97*

161. **Bordering a set of energy criteria for the contributing in the transition level to sustainable energy in electrical Iraqi Projects**
*Periodicals of Engineering and Natural Sciences 8 (1), 516-525, 2020 | 2020 | Cited: 37*

162. **Bordering a set of energy criteria for the contributing in the transition level to sustainable energy in electrical Iraqi Projects**
*Periodicals of Engineering and Natural Sciences (PEN) 8 (1), 516-525, 2020 | 2020 | Cited: 41*

163. **Efficient RTS and CTS Mechanism Which Save Time and System Resources**
*International Journal of Interactive Mobile Technologies 14 (4), 204-211, 2020 | 2020 | Cited: 45*

164. **Using internet of things application for disposing of solid waste**
*International Association of Online Engineering, 2020 | 2020 | Cited: 44*

165. **Efficient Energy of Smart Grid Education Models for Modern Electric Power System Engineering in Iraq**
*IOP Conference Series: Materials Science and Engineering 870 (1), 012049, 2020 | 2020 | Cited: 46*

166. **Simulation Study to Calculate the Vibration Energy of Two Molecules of Hydrogen Chloride and Carbon Oxide**
*Journal of Green Engineering 10 (9), 5989-6010, 2020 | 2020 | Cited: 20*

167. **Smart Shopping System with RFID Technology Based on Internet of Things**
*International Journal of Interactive Mobile Technologies 14 (4), 17-29, 2020 | 2020 | Cited: 71*

168. **The Interactive Role Using the Mozabook Digital Education Application and its Effect on Enhancing the Performance of eLearning**
*International Journal of Emerging Technologies in Learning (iJET) 15 (20), 21-41, 2020 | 2020 | Cited: 97*

169. **Using Modern Education Technique in Wasit University**
*International Journal of Interactive Mobile Technologies 14 (6), 82-94, 2020 | 2020 | Cited: 89*

170. **Combination of hiding and encryption for data security**
*International Journal of Interactive Mobile Technologies 14 (9), 34-47, 2020 | 2020 | Cited: 85*

171. **Design and Implementation of an E-learning Platform Using N-Tier Architecture**
*International Journal of Interactive Mobile Technologies 14 (6), 171-185, 2020 | 2020 | Cited: 79*

172. **Reducing the data rate in internet of things applications by using wireless sensor network**
*International Association of Online Engineering, 2020 | 2020 | Cited: 61*

173. **The Application of Wireless Communication in IOT for Saving Electrical Energy.**
*Int. J. Interact. Mob. Technol. 14 (1), 152-160, 2020 | 2020 | Cited: 69*

174. **Design and implementation of a smart traffic light management system controlled wirelessly by arduino**
*International Association of Online Engineering, 2020 | 2020 | Cited: 41*

175. **Enhancement of educational services by using the internet of things applications for talent and intelligent schools**
*Periodicals of Engineering and Natural Sciences (PEN) 8 (4), 2358-2366, 2020 | 2020 | Cited: 96*

176. **Hussein Tuama, Nawar S**
*Alseelawi," Bordering a set of energy criteria for the contributing in the ..., 2020 | 2020 | Cited: 2*

177. **A predictive model for liver disease progression based on logistic regression algorithm**
*Periodicals of Engineering and Natural Sciences 7 (3), 2019 | 2019 | Cited: 54*

178. **Analysis of the Efficient Energy Prediction for 5G Wireless Communication Technologies**
*International Journal of Emerging Technologies in Learning 14 (8), 2019 | 2019 | Cited: 91*

179. **Water desalination and purification using desalination units powered by solar panels**
*Periodicals of Engineering and Natural Sciences 7 (3), 2019 | 2019 | Cited: 46*

180. **Potentiometric Determination of Fexofenadine Hydrochloride Drug by Fabrication of Liquid Membrane Electrodes**
*2019*

181. **Design and Implementation of Unmanned Autonomous Armed Cart Used for Military Purposes**
*University of Thi-Qar Journal for Engineering Sciences 9 (1), 103-107, 2018 | 2018 | Cited: 6*

182. **Fabrication and Testing of Pyramidal X-Band Standard Horn Antenna**
*Journal of University of Babylon for Engineering Sciences 26 (1), 298-305, 2018 | 2018 | Cited: 5*

183. **Investigating the analysis of power saving mode in IEEE 802.11 for Wi-Fi communication**
*Wasit Journal of Engineering Sciences 6 (3), 13-19, 2018 | 2018 | Cited: 8*

184. **Attendance System Design And Implementation Based On Radio Frequency Identification (RFID) And Arduino**
*Journal of Advanced Research in Dynamical Control Systems 10 (SI4), 6, 2018 | 2018 | Cited: 47*

185. **A Proposed Model for the Mutual Dependency Between QoE and QoS in Wireless Heterogeneous Networks**
*Journal of Al-Qadisiyah for computer science and mathematics 9 (2), Page 45-55, 2017 | 2017 | Cited: 7*

186. **Preparing CuO, Cu2O thin films at various argon gas by using reactive dc magnetron sputtering method**
*Wasit Journal of Engineering Sciences 10 (2), 39-46, 2017 | 2017 | Cited: 3*

187. **EVALUATION OF THE EFFECT OF LENGTH ON THE PERFORMANCE OF RECTANGULAR TO RECTANGULAR WAVEGUIDE TAPER**
*Al-Qadisiyah Journal for Engineering Sciences 10 (4), 536-549, 2017 | 2017 | Cited: 3*

188. **Fig. 1: Correlation between Network QoS and Application QoS. 3. Quality of Experience (QoE)**
*2017*

189. **Bandwidth Analysis of a p-π-n Si Photodetector**
*International Journal of Computer Applications 975 (8887), 535, 2016 | 2016 | Cited: 8*

190. **Implementation and Estimation of Wireless Communication Channel**
*International Journal of Scientific Engineering and Research (IJSER) 3 (8), 1-3, 2016 | 2016*

191. **Study the matching of the level of electromagnetic radiation emitted by communication towers in the Kut City with the International Health organization criterion**
*Wasit Journal of Engineering Sciences 4 (1), 101-111, 2016 | 2016 | Cited: 5*

192. **Study the matching of the level of electromagnetic radiation emitted by communication towers in the Kut City with the International Health organization criterion**
*Wasit Journal of Engineering Sciences 4 (1), 101-111, 2016 | 2016 | Cited: 5*

193. **Enhancement of the MIMO-OFDM Technologies**
*California State University, Fullerton 4 (8), 6, 2016 | 2016 | Cited: 40*

194. **Results in Engineering**
*0*

195. **ICCSIE 2025**
*0*