



# Zaid Abdi Alkareem Yahya Alyasseri

زيد عبد الكريم يحيى الياسري

Associate Professor

## PROFILE

Zaid Abdi Alkareem Alyasseri received the B.Sc. degree in computer science from Babylon University, Babylon-Iraq, in 2007, and the M.Sc. degree in computer science from University Science Malaysia (USM), Penang-Malaysia, in 2013, and the Ph.D. from USM in the field of Artificial Intelligence (Brain-Inspired Computing) in 2020.

His main research interests include Optimization, Pattern recognition, EEG, Brain-Computer Interface, Signal and Image Processing, Machine and Deep Learning.

## ACADEMIC TITLES

2021-11-02 Associate Professor

## ADMINISTRATIVE POSITIONS

2013-06-01 - 2013-10-21 Coordinator

2022-06-01 - Present Director of the Scientific Affairs dept.

## INTERNATIONAL MEMBERSHIPS

• IEEE Senior member

## PUBLICATIONS ( 195 )

- Multi scale deep residual network for single image super-resolution using mean-std normalization and Bayesian hyperparameter optimization**  
*Discover Computing 29 (1), 75, 2026 | 2026*
- Security, Privacy, and AI Integration in Educational Metaverse: A Comprehensive Review and Framework**  
*Journal of Educational Computing Research, 07356331261436249, 2026 | 2026*
- Hybrid Image Encryption Model Based on Zernike Moments Keys Generation and Rubik's Cube Scrambling**  
*IEEE Access, 2026 | 2026*
- Hybrid Fertilized Particle Swarm Optimization for Engineering Design with Application to Vibration Control**  
*Applied Soft Computing, 115270, 2026 | 2026*
- A Novel Stateful Authentication Framework Approach with LLM-based IDS for MQTT Security**  
*IEEE Internet of Things Journal, 2026 | 2026*
- Security, Privacy, and AI Integration in Educational Metaverse: A Comprehensive Review and Framework**  
*Journal of Educational Computing Research, 07356331261436249, 2025 | 2025*
- Hybrid white shark optimizer with differential evolution for training multi-layer perceptron neural network**  
*Journal of Intelligent Systems 34 (1), 20240362, 2025 | 2025 | Cited: 1*

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## EDUCATION

دكتوراه (07-02-2020)

Brain-Inspired Computing

Universiti Sains Malaysia

## RESEARCH METRICS

h-index (Scopus) 32

h-index (GS) 37

Citations (Scopus) 3554

Citations (GS) 4882

Documents (Scopus) 116

Documents (GS) 152



8. **A Novel Stateful Authentication Framework Approach with LLM-based IDS for MQTT Security**  
*IEEE Internet of Things Journal*, 2025 | 2025
9. **AntDroidNet cybersecurity model: A hybrid integration of ant colony optimization and deep neural networks for android malware detection**  
*Mesopotamian Journal of CyberSecurity* 5 (1), 104-120, 2025 | 2025 | Cited: 21
10. **Sustainable secure blockchain assisted AIoT and green multi-constraints supply chain system**  
*IEEE Internet of Things Journal*, 2025 | 2025 | Cited: 13
11. **A hybrid ABC-based online evolving spiking neural network for unsupervised anomaly detection in streaming data**  
*PeerJ Computer Science* 11, e3184, 2025 | 2025 | Cited: 2
12. **Multi-objective Markov-enhanced adaptive whale optimization (MOMEAWO) cybersecurity model for binary and multi-class malware cyberthreat classification**  
*Journal of Electronic Science and Technology*, 100334, 2025 | 2025 | Cited: 1
13. **WOA-COVID-19: Whale Optimization Algorithm for Selection of Multi-Examination Features based on COVID-19 Infections**  
*Mesopotamian Journal of Computer Science* 2025, 172-185, 2025 | 2025 | Cited: 1
14. **EEG channels selection for stroke patients rehabilitation using equilibrium optimizer**  
*Journal of Intelligent Systems* 34 (1), 20240252, 2025 | 2025 | Cited: 3
15. **Application of Patent Law to Software in the IoT Context**  
*Sriwijaya Law Review*, 457-479, 2025 | 2025
16. **ENHANCED EEG SIGNAL CLASSIFICATION FOR AUTISM SPECTRUM DISORDER USING RIEMANNIAN GEOMETRY AND ENSEMBLE LEARNING TECHNIQUES**  
*Kufa Journal of Engineering* 16 (3), 176-198, 2025 | 2025
17. **OptiGuard-GNN Cybersecurity Model: Leveraging Multi-Criteria Optimization and Graph Neural Networks for Enhanced Detection of Distributed Denial of Service Attacks**  
*International Journal of Intelligent Engineering and Systems*, 2025 | 2025 | Cited: 3
18. **Hybrid Multi-Descriptor and Deep Belief Network Model for Acute Lymphoblastic Leukaemia Diagnosis**  
*Fusion: Practice and Applications (FPA)*, 2025 | 2025
19. **Hybrid Multi-Descriptor and Deep Belief Network Model for Acute Lymphoblastic Leukaemia Diagnosis.**  
*Fusion: Practice & Applications* 20 (1), 2025 | 2025
20. **Hyper clustering model for dynamic network intrusion detection**  
*Iet Communications* 19 (1), e12523, 2025 | 2025 | Cited: 41
21. **Sustainable secure blockchain assisted AIoT and green multi-constraints supply chain system**  
*IEEE Internet of Things Journal*, 2025 | 2025 | Cited: 10
22. **Hybridizing flower pollination algorithm with particle swarm optimization for enhancing the performance of IPv6 intrusion detection system**  
*Alexandria Engineering Journal* 110, 376, 2025 | 2025 | Cited: 20
23. **AntDroidNet Cybersecurity Model: A Hybrid Integration of Ant Colony Optimization and Deep Neural Networks for Android Malware Detection**  
*Mesopotamian Journal of Cybersecurity* 5 (1), 104-120, 2025 | 2025 | Cited: 12
24. **A recent advances on autism spectrum disorders in diagnosing based on machine learning and deep learning**  
*Artificial Intelligence Review* 58 (10), 313, 2025 | 2025 | Cited: 26
25. **Prioritizing Network-On-Chip Routers for Countermeasure Techniques against Flooding Denial-of-Service Attacks: A Fuzzy Multi-Criteria Decision-Making Approach.**  
*Computer Modeling in Engineering & Sciences (CMES)* 142 (3), 2025 | 2025 | Cited: 12
26. **FortifyGuard Cybersecurity Model: Fortifying Cybersecurity through an Enhanced Marine Predators Algorithm and Transformer-Based Approach for Advanced Malware Detection**  
2025 | Cited: 7

27. **Hyperparameters optimization of evolving spiking neural network using artificial bee colony for unsupervised anomaly detection**  
*Journal of Intelligent Systems* 34 (1), 20240235, 2025 | 2025 | Cited: 4
28. **Improving arabic signature authentication with quantum inspired evolutionary feature selection**  
*Multimedia Tools and Applications* 83 (28), 71495-71524, 2024 | 2024 | Cited: 6
29. **EEG channel selection for stroke patient rehabilitation using BAT optimizer**  
*Algorithms* 17 (8), 346, 2024 | 2024 | Cited: 7
30. **Multi-objective unsupervised feature selection and cluster based on symbiotic organism search**  
*Algorithms* 17 (8), 355, 2024 | 2024 | Cited: 12
31. **An efficient layout index characters for automatic license plate recognition system based on the yolo-v8 detector**  
*2024 IEEE 8th International Conference on Signal and Image Processing&nbsp;...*, 2024 | 2024 | Cited: 10
32. **Malware cyberattacks detection using a novel feature selection method based on a modified whale optimization algorithm**  
*Wireless Networks* 30 (9), 7257-7273, 2024 | 2024 | Cited: 22
33. **Recent advances of whale optimization algorithm, its versions and applications**  
*Handbook of whale optimization algorithm*, 9-31, 2024 | 2024 | Cited: 23
34. **A Communication-Efficient Federated Learning Framework for Sustainable Development Using Lemurs Optimizer**  
*Algorithms* 17 (4), 160, 2024 | 2024 | Cited: 9
35. **A systematic review of symbiotic organisms search algorithm for data clustering and predictive analysis**  
*Journal of Intelligent Systems* 33 (1), 20230267, 2024 | 2024 | Cited: 11
36. **Lighting enhancement of underwater image using coronavirus herd immunity optimizer**  
*Alexandria Engineering Journal* 91, 115-125, 2024 | 2024 | Cited: 4
37. **Improving arabic signature authentication with quantum inspired evolutionary feature selection**  
*Multimedia Tools and Applications*, 1-30, 2024 | 2024
38. **Sizing optimization of truss structures using hybrid whale optimization algorithm**  
*Handbook of Whale Optimization Algorithm*, 309-327, 2024 | 2024 | Cited: 3
39. **Hybrid whale optimization algorithm for enhancing K-means clustering technique**  
*Handbook of Whale Optimization Algorithm*, 387-409, 2024 | 2024 | Cited: 2
40. **Recent advances of whale optimization algorithm, its versions and applications**  
*Handbook of Whale Optimization Algorithm*, 9-31, 2024 | 2024 | Cited: 1
41. **Binary nonogram puzzle based data hiding technique for data security**  
*Multimedia Tools and Applications* 83 (2), 4951-4992, 2024 | 2024
42. **An Optimal EEG Features Extraction Methods for Autism Detection**  
*International Conference on Computing and Communication Networks*, 619-632, 2024 | 2024
43. **One-class Arabic signature verification: A progressive fusion of optimal features**  
*Computers, Materials, & Continua* 75 (1), 219, 2023 | 2023 | Cited: 3
44. **Marine Predators Algorithm: A Review: MA Al-Betar et al.**  
*Archives of Computational Methods in Engineering* 30 (5), 3405-3435, 2023 | 2023 | Cited: 90
45. **Web accessibility automatic evaluation tools: to what extent can they be automated? IA Doush et al.**  
*CCF Transactions on Pervasive Computing and Interaction* 5 (3), 288-320, 2023 | 2023 | Cited: 41
46. **Marine Predators Algorithm: A Review**  
*Archives of Computational Methods in Engineering* 30, 3405-3435, 2023 | 2023
47. **One-class Arabic signature verification: A progressive fusion of optimal features**  
*Computers, Materials & Continua* 75 (1), 219-242, 2023 | 2023 | Cited: 3
48. **Recent advances in butterfly optimization algorithm, its versions and applications**  
*Archives of Computational Methods in Engineering* 30 (2), 1399-1420, 2023 | 2023 | Cited: 67

49. **Malware cyberattacks detection using a novel feature selection method based on a modified whale optimization algorithm**  
*Wireless Networks, 1-17, 2023 | 2023*
50. **Advancements in Lossless and Reversible Compression of Digital Pathology Images via Auto-Recursive Set Partitioning in Hierarchical Trees and Wavelet Decomposition.**  
*Traitement du Signal 40 (6), 2023 | 2023*
51. **Archive-based coronavirus herd immunity algorithm for optimizing weights in neural networks**  
*Neural Computing and Applications, 1-19, 2023 | 2023 | Cited: 4*
52. **A review on role of image processing techniques to enhancing security of IoT applications**  
*IEEE Access, 2023 | 2023 | Cited: 1*
53. **Enhanced PSO Algorithm for Detecting DRDoS Attacks on LDAP Servers.**  
*International Journal of Intelligent Engineering & Systems 16 (5), 2023 | 2023 | Cited: 15*
54. **An optimization method for underwater images enhancement**  
*Wasit Journal for Pure sciences 2 (2), 340-351, 2023 | 2023 | Cited: 1*
55. **Binary nonogram puzzle based data hiding technique for data security**  
*Multimedia Tools and Applications, 1-42, 2023 | 2023*
56. **A Genetic Algorithm Based One Class Support Vector Machine Model for Arabic Skilled Forgery Signature Verification**  
*Journal of Imaging 9 (4), 79, 2023 | 2023 | Cited: 9*
57. **A Recent Review of Underwater Image Enhancement Techniques**  
*Doctoral Symposium on Computational Intelligence, 519-538, 2023 | 2023 | Cited: 2*
58. **Modified Flower Pollination Algorithm for ICMPv6-Based DDoS Attacks Anomaly Detection**  
*Procedia Computer Science 220, 776-781, 2023 | 2023 | Cited: 12*
59. **One-Class Arabic Signature Verification: A Progressive Fusion of Optimal Features**  
*CMC-COMPUTERS MATERIALS & CONTINUA 75 (1), 219-242, 2023 | 2023 | Cited: 1*
60. **Multi-objective flower pollination algorithm: a new technique for EEG signal denoising**  
*Neural Computing and Applications, 1-20, 2023 | 2023 | Cited: 7*
61. **Marine predators algorithm: A review**  
*Archives of Computational Methods in Engineering 30 (5), 3405-3435, 2023 | 2023 | Cited: 70*
62. **A hybrid cracked tiers detection system based on adaptive correlation features selection and deep belief neural networks**  
*Symmetry 15 (2), 358, 2023 | 2023 | Cited: 21*
63. **Archive-based coronavirus herd immunity algorithm for optimizing weights in neural networks**  
*Neural Computing and Applications 35 (21), 15923-15941, 2023 | 2023 | Cited: 14*
64. **Web accessibility automatic evaluation tools: to what extent can they be automated?**  
*CCF Transactions on Pervasive Computing and Interaction 5 (3), 288-320, 2023 | 2023 | Cited: 38*
65. **Malware Detection Using Deep Learning and Correlation-Based Feature Selection. Symmetry 2023, 15, 123**  
*2023 | Cited: 1*
66. **A review on role of Image Processing techniques to Enhancing Security of IoT Applications**  
*IEEE Access 11, 101924-101948, 2023 | 2023 | Cited: 18*
67. **Multi-objective flower pollination algorithm: a new technique for EEG signal denoising**  
*Neural Computing and Applications 35 (11), 7943-7962, 2023 | 2023 | Cited: 21*
68. **One-Class Arabic Signature Verification: A Progressive Fusion of Optimal Features.**  
*Computers, Materials & Continua 75 (1), 2023 | 2023 | Cited: 3*
69. **Advancements in Lossless and Reversible Compression of Digital Pathology Images via Auto-Recursive Set Partitioning in Hierarchical Trees and Wavelet Decomposition**  
*Traitement du Signal 40 (6), 2723, 2023 | 2023 | Cited: 1*
70. **Malware detection using deep learning and correlation-based feature selection**  
*Symmetry 15 (1), 123, 2023 | 2023 | Cited: 211*
71. **Boosting the training of neural networks through hybrid metaheuristics**  
*Cluster Computing 26 (3), 1821-1843, 2023 | 2023 | Cited: 26*

72. **Marine Predators Algorithm: A Review**  
*Archives of Computational Methods in Engineering*, 1-31, 2023 | 2023 | Cited: 7
73. **Feature Selection Method Based on Quantum Inspired Genetic Algorithm for Arabic Signature Verification**  
*Journal of King Saud University-Computer and Information Sciences*, 2023 | 2023 | Cited: 36
74. **A hybrid cracked tiers detection system based on adaptive correlation features selection and deep belief neural networks**  
*Symmetry* 15 (2), 358, 2023 | 2023 | Cited: 6
75. **Feature Selection for Detecting ICMPv6-Based DDoS Attacks Using Binary Flower Pollination Algorithm**  
2023 | Cited: 24
76. **Web accessibility automatic evaluation tools: to what extent can they be automated?**  
*CCF Transactions on Pervasive Computing and Interaction*, 1-33, 2023 | 2023 | Cited: 2
77. **Detecting keratoconus on two different populations using an unsupervised hybrid artificial intelligence model.**  
*Investigative Ophthalmology & Visual Science* 63 (7), 2088–F0077-2088–F0077, 2022 | 2022 | Cited: 4
78. **Recent advances in butterfly optimization algorithm, its versions and applications**  
*Archives of Computational Methods in Engineering*, 1-22, 2022 | 2022 | Cited: 5
79. **Mobile augmented reality based on multimodal inputs for experiential learning**  
*IEEE Access* 10, 78953-78969, 2022 | 2022 | Cited: 35
80. **Recent advances of bat-inspired algorithm, its versions and applications**  
*Neural Computing and Applications* 34 (19), 16387-16422, 2022 | 2022 | Cited: 41
81. **Trigonometric words ranking model for spam message classification**  
*IET Networks*, 2022 | 2022 | Cited: 13
82. **Multi-objective flower pollination algorithm: a new technique for EEG signal denoising**  
*Neural Computing and Applications*, 1-20, 2022 | 2022 | Cited: 11
83. **A novel link-based multi-objective grey wolf optimizer for appliances energy scheduling problem**  
*Cluster Computing* 25 (6), 4355-4382, 2022 | 2022 | Cited: 16
84. **Hyper clustering model for dynamic network intrusion detection**  
*IET Communications*, 2022 | 2022 | Cited: 14
85. **EEG Channel Selection for Person Identification Using Binary Grey Wolf Optimizer**  
*IEEE Access*, 2022 | 2022 | Cited: 45
86. **EEG channel selection using multiobjective cuckoo search for person identification as protection system in healthcare applications**  
*Computational Intelligence and Neuroscience* 2022, 2022 | 2022 | Cited: 17
87. **Lemurs Optimizer: A New Metaheuristic Algorithm for Global Optimization**  
*Applied Sciences* 12 (19), 10057, 2022 | 2022 | Cited: 82
88. **Labelled dataset on distributed denial-of-service (DDoS) attacks based on internet control message protocol version 6 (ICMPv6)**  
*Wireless Communications and Mobile Computing* 2022, 2022 | 2022 | Cited: 11
89. **CCSA: Cellular Crow Search Algorithm with topological neighborhood shapes for optimization**  
*Expert Systems with Applications* 194, 116431, 2022 | 2022 | Cited: 20
90. **EEG channel selection based user identification via improved flower pollination algorithm**  
*Sensors* 22 (6), 2092, 2022 | 2022 | Cited: 22
91. **A modified coronavirus herd immunity optimizer for the power scheduling problem**  
*Mathematics* 10 (3), 315, 2022 | 2022 | Cited: 37
92. **Island neighboring heuristics harmony search algorithm for flow shop scheduling with blocking**  
*Swarm and Evolutionary Computation* 74, 101127, 2022 | 2022 | Cited: 25
93. **An enhanced mechanism for detection of Domain Name System-based distributed reflection denial of service attacks depending on modified metaheuristic algorithms and adaptive**  
*IET Networks* 11 (5), 169-181, 2022 | 2022 | Cited: 19

94. **A hybrid flower pollination with  $\beta$ -hill climbing algorithm for global optimization**  
*Journal of King Saud University-Computer and Information Sciences* 34 (8&nbsp;... 2022 | 2022 | Cited: 32
95. **Automatic malignant and benign skin cancer classification using a hybrid deep learning approach**  
*Diagnostics* 12 (10), 2472, 2022 | 2022 | Cited: 176
96. **Optimized leaky ReLU for handwritten Arabic character recognition using convolution neural networks**  
*Multimedia Tools and Applications*, 1-30, 2022 | 2022 | Cited: 41
97. **Review on COVID-19 diagnosis models based on machine learning and deep learning approaches**  
*Expert Systems*, e12759, 2022 | 2022 | Cited: 247
98. **Labelled Dataset on Distributed Denial-of-Service (DDoS) Attacks Based on Internet Control Message Protocol Version 6 (ICMPv6)**  
*Wireless Communications and Mobile Computing* 2022 (1), 8060333, 2022 | 2022 | Cited: 25
99. **Optimized leaky ReLU for handwritten Arabic character recognition using convolution neural networks**  
*Multimedia Tools and Applications* 81 (2), 2065-2094, 2022 | 2022 | Cited: 88
100. **Automatic Malignant and Benign Skin Cancer Classification Using a Hybrid Deep Learning Approach. Diagnostics** 2022, 12, 2472  
*s Note: MDPI stays neu-tral with regard to jurisdictional claims in&nbsp;... 2022 | 2022 | Cited: 2*
101. **EEG channel selection using multiobjective cuckoo search for person identification as protection system in healthcare applications**  
*Computational Intelligence and Neuroscience* 2022, 2022 | 2022 | Cited: 20
102. **EEG channel selection using multiobjective cuckoo search for person identification as protection system in healthcare applications**  
*Computational Intelligence and Neuroscience* 2022 (1), 5974634, 2022 | 2022 | Cited: 38
103. **An Optimization for Access Point Placement in Indoor Communication**  
*International Conference on Computational Science and Technology*, 615-629, 2022 | 2022 | Cited: 6
104. **Research Article EEG Channel Selection Using Multiobjective Cuckoo Search for Person Identification as Protection System in Healthcare Applications**  
2022 | Cited: 1
105. **A Hybrid Artificial Intelligence Model for Detecting Keratoconus**  
*Applied Sciences* 12 (24), 12979, 2022 | 2022 | Cited: 7
106. **Lack of Habituation in Migraine Patients Based on High-Density EEG Analysis Using the Steady State of Visual Evoked Potential**  
*Entropy* 24 (11), 1688, 2022 | 2022 | Cited: 14
107. **A device-agnostic deep learning model for detecting keratoconus based on anterior elevation corneal maps**  
*Investigative Ophthalmology & Visual Science* 63 (7), 2101–F0090-2101–F0090, 2022 | 2022 | Cited: 4
108. **Variants of neural networks: a review**  
*Malaysian Journal of Computer Science* 35 (2), 158-178, 2022 | 2022 | Cited: 8
109. **Dhiah Al-Shammary**  
*Zaid Abdi Alkareem Alyasseri, Mazin Abed Mohammed, Karrar Hameed Abdulkareem&nbsp;... 2022 | 2022 | Cited: 2*
110. **Research Article Labelled Dataset on Distributed Denial-of-Service (DDoS) Attacks Based on Internet Control Message Protocol Version 6 (ICMPv6)**  
2022
111. **A novel ensemble statistical topic extraction method for scientific publications based on optimization clustering**  
*Multimedia tools and applications* 80 (1), 37-82, 2021 | 2021 | Cited: 29
112. **Mapping and Deep Analysis of Image Dehazing: Coherent Taxonomy, Datasets, Open Challenges, Motivations, and Recommendations.**  
*International Journal of Interactive Multimedia and Artificial Intelligence&nbsp;... 2021 | 2021 | Cited: 13*
113. **Wind driven optimization with smart home battery for power scheduling problem in smart home**  
*2021 Palestinian International Conference on Information and Communication&nbsp;... 2021 | 2021 | Cited: 6*

114. **A hybrid deep learning framework for keratoconus detection based on anterior and posterior corneal maps**  
*ARVO Imaging in the Eye Conference, 2021 | 2021 | Cited: 2*
115. **Detecting keratoconus severity from corneal data of different populations with machine learning**  
*ARVO Annual Meeting Abstract, 2021 | 2021 | Cited: 3*
116. **Evaluation of keratoconus detection from elevation, topography and pachymetry raw data using machine learning**  
*ARVO Annual Meeting Abstract, 2021 | 2021 | Cited: 2*
117. **An ensemble topic extraction approach based on optimization clusters using hybrid multi-verse optimizer for scientific publications**  
*Journal of Ambient Intelligence and Humanized Computing 12, 2765-2801, 2021 | 2021 | Cited: 18*
118. **A hybrid deep learning construct for detecting keratoconus from corneal maps**  
*Translational vision science & technology 10 (14), 16-16, 2021 | 2021 | Cited: 55*
119. **A Hybrid Flower Pollination with p-Hill Climbing Algorithm for Global Optimization**  
*Journal of King Saud University-Computer and Information Sciences, 2021 | 2021*
120. **Smart Home Battery for the Multi-Objective Power Scheduling Problem in a Smart Home Using Grey Wolf Optimizer. Electronics 2021, 10, 447**  
*s Note: MDPI stays neu-tral with regard to jurisdictional clai-ms in&nbsp;...; 2021 | 2021*
121. **Mapping and Deep Analysis of Image Dehazing: Coherent Taxonomy, Datasets, Open Challenges, Motivations, and Recommendations**  
*International Journal of Interactive Multimedia and Artificial Intelligence&nbsp;...; 2021 | 2021 | Cited: 13*
122. **Epithelial Layer Estimation Using Curvatures and Textural Features for Dysplastic Tissue Detection**  
*CMC-COMPUTERS MATERIALS & CONTINUA 67 (1), 761-777, 2021 | 2021 | Cited: 6*
123. **A novel ensemble statistical topic extraction method for scientific publications based on optimization clustering**  
*Multimedia Tools and Applications 80 (1), 37-82, 2021 | 2021 | Cited: 27*
124. **Evolutionary data clustering: Algorithms and applications**  
*Springer, 2021 | 2021 | Cited: 27*
125. **An ensemble topic extraction approach based on optimization clusters using hybrid multi-verse optimizer for scientific publications**  
*Journal of Ambient Intelligence and Humanized Computing 12 (2), 2765-2801, 2021 | 2021 | Cited: 24*
126. **Evolutionary data clustering: Algorithms and applications**  
*Springer Singapore, Imprint: Springer, 2021 | 2021 | Cited: 14*
127. **Coronavirus herd immunity optimizer (CHIO)**  
*Neural Computing and Applications, 2021 | 2021 | Cited: 418*
128. **Gene selection for microarray data classification based on Gray Wolf Optimizer enhanced with TRIZ-inspired operators**  
*Knowledge-Based Systems 223, 107034, 2021 | 2021 | Cited: 147*
129. **A Novel Hybrid Grey Wolf Optimizer With Min-conflict Algorithm for Power Scheduling Problem in a Smart Home**  
*Swarm and Evolutionary Computation, 100793, 2021 | 2021 | Cited: 103*
130. **Smart home battery for the multi-objective power scheduling problem in a smart home using grey wolf optimizer**  
*Electronics 10 (4), 447, 2021 | 2021 | Cited: 82*
131. **An improved text feature selection for clustering using binary grey wolf optimizer**  
*Proceedings of the 11th National Technical Seminar on Unmanned System&nbsp;...; 2021 | 2021 | Cited: 37*
132. **A novel ensemble statistical topic extraction method for scientific publications based on optimization clustering**  
*Multimedia Tools and Applications 80, 37-82, 2021 | 2021 | Cited: 21*
133. **Predicting COVID-19 Based on Environmental Factors With Machine Learning**  
*Intelligent Automation & Soft Computing, doi:10.32604/iasc.2021.015413 28 (2&nbsp;...; 2021 | 2021 | Cited: 31*

134. **EEG Signal Denoising Using Hybridizing Method Between Wavelet Transform with Genetic Algorithm**  
*Proceedings of the 11th National Technical Seminar on Unmanned System&nbsp;..., 2021 | 2021 | Cited: 25*
135. **EEG feature fusion for motor imagery: A new robust framework towards stroke patients rehabilitation**  
*Computers in biology and medicine 137, 104799, 2021 | 2021 | Cited: 83*
136. **A hybrid deep learning construct for detecting keratoconus from corneal maps**  
*Translational Vision Science & Technology 10 (14), 16-16, 2021 | 2021 | Cited: 18*
137. **Keratoconus severity detection from elevation, topography and pachymetry raw data using a machine learning approach**  
*IEEE Access, 2021 | 2021 | Cited: 30*
138. **A conceptual and systematics for intelligent power management system-based cloud computing: Prospects, and challenges**  
*Applied Sciences 11 (21), 9820, 2021 | 2021 | Cited: 73*
139. **A min-conflict algorithm for power scheduling problem in a smart home using battery**  
*Proceedings of the 11th National Technical Seminar on Unmanned System&nbsp;..., 2021 | 2021 | Cited: 16*
140. **EEG-Based Person Identification Using Multi-Verse Optimizer as Unsupervised Clustering Techniques**  
*Evolutionary Data Clustering: Algorithms and Applications, 89-110, 2021 | 2021 | Cited: 13*
141. **A Hybrid Salp Swarm Algorithm with  $\beta$ -Hill Climbing Algorithm for Text Documents Clustering**  
*Evolutionary Data Clustering: Algorithms and Applications, 129-168, 2021 | 2021 | Cited: 25*
142. **Mapping and Deep Analysis of Image Dehazing: Coherent Taxonomy, Datasets, Open Challenges, Motivations, and Recommendations.**  
*International Journal of Interactive Multimedia & Artificial Intelligence 7 (2), 2021 | 2021 | Cited: 13*
143. **Detection of ICMPv6-based DDoS attacks using anomaly based intrusion detection system: A comprehensive review**  
*International Journal of Electrical and Computer Engineering 11 (6), 5216, 2021 | 2021 | Cited: 19*
144. **The Effects of Biotechnology Virtual Labs Approach for Enhancing of Understanding 1st Year University Students**  
*2021 Palestinian International Conference on Information and Communication&nbsp;..., 2021 | 2021 | Cited: 5*
145. **EEG Feature Fusion for Person Identification Using Efficient Machine Learning Approach**  
*2021 Palestinian International Conference on Information and Communication&nbsp;..., 2021 | 2021 | Cited: 5*
146. **Link-based multi-verse optimizer for text documents clustering**  
*Applied Soft Computing 87, 106002, 2020 | 2020 | Cited: 91*
147. **Person identification using EEG channel selection with hybrid flower pollination algorithm**  
*Pattern Recognition 105, 107393, 2020 | 2020 | Cited: 86*
148. **A novel hybrid multi-verse optimizer with K-means for text documents clustering**  
*Neural Computing and Applications, 2020 | 2020 | Cited: 81*
149. **EEG signals denoising using optimal wavelet transform hybridized with efficient metaheuristic methods**  
*IEEE Access 8, 10584-10605, 2020 | 2020 | Cited: 146*
150. **EEG-BASED PERSON IDENTIFICATION USING MULTI-LEVEL WAVELET DECOMPOSITION WITH MULTI-OBJECTIVE FLOWER POLLINATION ALGORITHM**  
*Universiti Sains Malaysia, 2020 | 2020*
151. **Proceedings of the 11th National Technical Seminar on Unmanned System Technology 2019: NUSYS'19**  
*Springer Nature, 2020 | 2020 | Cited: 2*
152. **Selection of colours and shapes of laser light apparatus for improvement of motorcycle conspicuity**  
*International Journal of Advanced Science and Technology, 2020 | 2020*
153. **Coronavirus herd immunity&nbsp;optimizer (CHIO)**  
*2020*

154. **EEG Signal Denoising Using Hybridizing**  
*Proceedings of the 11th National Technical Seminar on Unmanned System&nbsp;..., 2020 | 2020*
155. **Ammar Kamal Abasi i Zaid Abdi Alkareem Alyasseri: Optimization methods for power scheduling problems in smart home: Survey**  
*Renewable and Sustainable Energy Reviews, broj 115, 2019 | 2019 | Cited: 2*
156. **Island flower pollination algorithm for global optimization: MA Al-Betar et al.**  
*The Journal of Supercomputing 75 (8), 5280-5323, 2019 | 2019 | Cited: 68*
157. **Optimization methods for power scheduling problems in smart home: Survey**  
*Renewable and Sustainable Energy Reviews 115, 109362, 2019 | 2019 | Cited: 163*
158. **Island flower pollination algorithm for global optimization**  
*The Journal of Supercomputing 75, 5280-5323, 2019 | 2019 | Cited: 51*
159. **Particle swarm optimization algorithm for power scheduling problem using smart battery**  
*2019 IEEE Jordan international joint conference on electrical engineering&nbsp;..., 2019 | 2019 | Cited: 57*
160. **A text feature selection technique based on binary multi-verse optimizer for text clustering**  
*2019 IEEE Jordan international joint conference on electrical engineering&nbsp;..., 2019 | 2019 | Cited: 36*
161. **The effects of EEG feature extraction using multi-wavelet decomposition for mental tasks classification**  
*Proceedings of the international conference on information and communication&nbsp;..., 2019 | 2019 | Cited: 40*
162. **An efficient optimization technique of eeg decomposition for user authentication system**  
*2018 2nd international conference on biosignal analysis, processing and&nbsp;..., 2018 | 2018 | Cited: 39*
163. **A hybrid filter-wrapper gene selection method for cancer classification**  
*2018 2nd international conference on biosignal analysis, processing and&nbsp;..., 2018 | 2018 | Cited: 60*
164. **Classification of eeg mental tasks using multi-objective flower pollination algorithm for person identification**  
*International Journal of Integrated Engineering 10 (7), 2018 | 2018 | Cited: 31*
165. **EEG Feature Extraction for Person Identification using Wavelet Decomposition and Multi-Objective Flower Pollination Algorithm**  
*IEEE ACCESS, 2018 | 2018 | Cited: 54*
166. **EEG-based person authentication using multi-objective flower pollination algorithm**  
*2018 IEEE Congress on Evolutionary Computation (CEC), 1-8, 2018 | 2018 | Cited: 48*
167. **Variants of the flower pollination algorithm: a review**  
*Nature-Inspired Algorithms and Applied Optimization, 91-118, 2018 | 2018 | Cited: 183*
168. **Hybridizing  $\beta$ -hill climbing with wavelet transform for denoising ECG signals**  
*Information Sciences 429, 229–246, 2018 | 2018 | Cited: 101*
169. **Real-time heart pulse monitoring technique using wireless sensor network and mobile application**  
*International Journal of Electrical and Computer Engineering 8 (6), 5118, 2018 | 2018 | Cited: 78*
170. **A Comparative Study between the Internal and External Internet Broadcasting on AL-NAJAF City**  
*International Journal of Computer Applications 975, 8887, 2018 | 2018 | Cited: 2*
171. **EEG Channels Selection Using Hybridizing Flower Pollination and  $\beta$ -Hill Climbing Algorithm for Person Identification**  
*Big Data Summit 2: HPC & AI Empowering Data Analytics (co-locate with PRAGMA&nbsp;..., 2018 | 2018*
172. **Optimal eeg signals denoising using hybrid  $\beta$ -hill climbing algorithm and wavelet transform**  
*ICISPC'17, 144-152, 2017 | 2017 | Cited: 10*
173. **ECG signal denoising using  $\beta$ -hill climbing algorithm and wavelet transform**  
*The 8th International Conference on Information Technology (ICIT 2017), 1-7, 2017 | 2017 | Cited: 48*
174. **Electroencephalogram Signals Denoising using Various Mother Wavelet Functions: A Comparative Analysis**  
*ICISPC 2017 2017 International Conference on Imaging, Signal Processing and&nbsp;..., 2017 | 2017 | Cited: 56*
175. **Feature selection with  $\beta$ -hill climbing search for text clustering application**  
*Second Palestinian International Conference on Information and Communication&nbsp;..., 2017 | 2017 | Cited: 53*

176. **Optimal Electroencephalogram Signals Denoising using Hybrid  $\beta$ -Hill Climbing Algorithm and Wavelet Transform**  
*ICISPC 2017 2017 International Conference on Imaging, Signal Processing and&nbsp;..., 2017 | 2017 | Cited: 21*
177. **Wireless Sensor Network and Web Application Hybrid Scheme for Healthcare Monitoring.**  
*Journal of Soft Computing & Decision Support Systems 4 (5), 2017 | 2017 | Cited: 19*
178. **Gray image enhancement using harmony search**  
*International Journal of Computational Intelligence Systems 9 (5), 932-944, 2016 | 2016 | Cited: 33*
179. **Ismail,—Parallelize Bubble and Merge Sort Algorithms Using Message Passing Interface (MPI)**  
*Publication eprint, 2016 | 2016*
180. **Year of Publication: 2015**  
*2015*
181. **Hybrid Bubble and Merge Sort Algorithms Using Message Passing Interface**  
*Journal of Computer Science & Computational Mathematics 5 (4), 67-73, 2015 | 2015 | Cited: 4*
182. **Introduction to Parallel Computing using Matlab**  
*LAP Lambert Acadimic Publishing, 2015 | 2015 | Cited: 1*
183. **Face Recognition using Independent Component Analysis Algorithm**  
*International Journal of Computer Applications 126 (3), 2015 | 2015 | Cited: 11*
184. **Survey of Parallel Computing with MATLAB**  
*arXiv preprint arXiv:1407.6878, 2014 | 2014 | Cited: 9*
185. **Parallelize Bubble Sort Algorithm Using OpenMP**  
*International Journal of Advanced Research in Computer Science and Software&nbsp;..., 2014 | 2014 | Cited: 10*
186. **Parallelize Bubble and Merge Sort Algorithms Using Message Passing Interface (MPI)**  
*The 3rd International Conference on Computer Engineering & Mathematical&nbsp;..., 2014 | 2014 | Cited: 2*
187. **Adaption of Harmony Search Algorithm for Gray Image Enhancement**  
*School of Computer Sciences, University Science Malaysia (USM), 2013 | 2013 | Cited: 2*
188. **Recognizing Occluded and Illuminated Faces using ICA Algorithm**  
*The 2nd International Conference on Computer Engineering & Mathematical&nbsp;..., 2013 | 2013*
189. **Skin texture recognition using neural networks**  
*Computer Vision and Pattern Recognition (arXiv preprint) | 2013*
190. **Edge preserving image enhancement via harmony search algorithm**  
*2012 4th conference on data mining and optimization (DMO), 47-52, 2012 | 2012 | Cited: 30*
191. **NK-sorting**  
*Robert Sedgwick, Algorithms in C, Princeton university, 2011 | 2011 | Cited: 6*
192. **Skin texture recognition using neural networks**  
*arXiv preprint arXiv:1311.6049, 2008 | 2008 | Cited: 34*
193. **Mourad Abbas, Center of Scientific and Technical Research for the Development of Arabic**  
*0*
194. **PICICT 2021**  
*0*
195. **Marine Predators Algorithm: A Review**  
*Archives of Computational Methods in Engineering, 0 | 0*