

Mohammed Azmi Al-Betar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

155
papers

3,354
citations

30
h-index

49
g-index

165
ext. papers

4,632
ext. citations

3.6
avg, IF

6.33
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 155 | EEG Channel Selection for Person Identification Using Binary Grey Wolf Optimizer. <i>IEEE Access</i> , 2022 , 10, 10500-10513 | 3.5 | 2 |
| 154 | A Modified Coronavirus Herd Immunity Optimizer for the Power Scheduling Problem. <i>Mathematics</i> , 2022 , 10, 315 | 2.3 | 0 |
| 153 | EEG Channel Selection Using Multiobjective Cuckoo Search for Person Identification as Protection System in Healthcare Applications.. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 5974634 | 3 | 5 |
| 152 | An Enhanced Grey Wolf Optimizer with a Velocity-Aided Global Search Mechanism. <i>Mathematics</i> , 2022 , 10, 351 | 2.3 | 5 |
| 151 | CCSA: Cellular Crow Search Algorithm with topological neighborhood shapes for optimization. <i>Expert Systems With Applications</i> , 2022 , 194, 116431 | 7.8 | 1 |
| 150 | Economic load dispatch using memetic sine cosine algorithm.. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2022 , 1-29 | 3.7 | 1 |
| 149 | Coronavirus herd immunity optimizer with greedy crossover for feature selection in medical diagnosis. <i>Knowledge-Based Systems</i> , 2022 , 235, 107629 | 7.3 | 10 |
| 148 | A Coronavirus Herd Immunity Optimization (CHIO) for Travelling Salesman Problem. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 717-729 | 0.4 | 0 |
| 147 | White Shark Optimizer: A novel bio-inspired meta-heuristic algorithm for global optimization problems. <i>Knowledge-Based Systems</i> , 2022 , 243, 108457 | 7.3 | 16 |
| 146 | Intrusion Detection System for IoT Based on Deep Learning and Modified Reptile Search Algorithm. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 1-15 | 3 | 4 |
| 145 | An enhanced binary Rat Swarm Optimizer based on local-best concepts of PSO and collaborative crossover operators for feature selection. <i>Computers in Biology and Medicine</i> , 2022 , 105675 | 7 | 1 |
| 144 | Discrete flower pollination algorithm for patient admission scheduling problem. <i>Computers in Biology and Medicine</i> , 2021 , 105007 | 7 | 0 |
| 143 | Binary Horse herd optimization algorithm with crossover operators for feature selection.. <i>Computers in Biology and Medicine</i> , 2021 , 141, 105152 | 7 | 5 |
| 142 | EEG Signal Denoising Using Hybridizing Method Between Wavelet Transform with Genetic Algorithm. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 449-469 | 0.2 | 4 |
| 141 | A Min-conflict Algorithm for Power Scheduling Problem in a Smart Home Using Battery. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 489-501 | 0.2 | 4 |
| 140 | An Improved Text Feature Selection for Clustering Using Binary Grey Wolf Optimizer. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 503-516 | 0.2 | 10 |
| 139 | Healthcare scheduling in optimization context: a review. <i>Health and Technology</i> , 2021 , 11, 1-25 | 2.1 | 12 |

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| 138 | A Non-convex Economic Load Dispatch Using Hybrid Salp Swarm Algorithm. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 8721-8740 | 2.5 | 8 |
| 137 | Island-Based Harmony Search Algorithm for Non-convex Economic Load Dispatch Problems. <i>Journal of Electrical Engineering and Technology</i> , 2021 , 16, 1985-2015 | 1.4 | 3 |
| 136 | An Intensive and Comprehensive Overview of JAYA Algorithm, its Versions and Applications. <i>Archives of Computational Methods in Engineering</i> , 2021 , 1-30 | 7.8 | 15 |
| 135 | A modified coronavirus herd immunity optimizer for capacitated vehicle routing problem. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2021 , | 2.5 | 2 |
| 134 | A hybrid flower pollination with Hill climbing algorithm for global optimization. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2021 , | 2.5 | 3 |
| 133 | Gene selection for microarray data classification based on Gray Wolf Optimizer enhanced with TRIZ-inspired operators. <i>Knowledge-Based Systems</i> , 2021 , 223, 107034 | 7.3 | 17 |
| 132 | Review on COVID-19 diagnosis models based on machine learning and deep learning approaches. <i>Expert Systems</i> , 2021 , e12759 | 2.1 | 20 |
| 131 | A (beta)-hill climbing optimizer for examination timetabling problem. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 653-666 | 3.7 | 3 |
| 130 | A novel hybrid grey wolf optimizer with min-conflict algorithm for power scheduling problem in a smart home. <i>Swarm and Evolutionary Computation</i> , 2021 , 60, 100793 | 9.8 | 26 |
| 129 | An ensemble topic extraction approach based on optimization clusters using hybrid multi-verse optimizer for scientific publications. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 2765-2801 | 3.7 | 5 |
| 128 | Survival exploration strategies for Harris Hawks Optimizer. <i>Expert Systems With Applications</i> , 2021 , 168, 114243 | 7.8 | 23 |
| 127 | A novel ensemble statistical topic extraction method for scientific publications based on optimization clustering. <i>Multimedia Tools and Applications</i> , 2021 , 80, 37-82 | 2.5 | 4 |
| 126 | Binary (beta)-hill climbing optimizer with S-shape transfer function for feature selection. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 7637-7665 | 3.7 | 7 |
| 125 | A Hybrid Salp Swarm Algorithm with (beta)-Hill Climbing Algorithm for Text Documents Clustering. <i>Algorithms for Intelligent Systems</i> , 2021 , 129-161 | 0.5 | 1 |
| 124 | Smart Home Battery for the Multi-Objective Power Scheduling Problem in a Smart Home Using Grey Wolf Optimizer. <i>Electronics (Switzerland)</i> , 2021 , 10, 447 | 2.6 | 18 |
| 123 | Salp swarm optimizer for modeling the software fault prediction problem. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2021 , | 2.5 | 5 |
| 122 | Salp Swarm Optimizer for Modeling Software Reliability Prediction Problems. <i>Neural Processing Letters</i> , 2021 , 53, 4451 | 2.4 | 2 |
| 121 | A novel hybrid multi-verse optimizer with K-means for text documents clustering. <i>Neural Computing and Applications</i> , 2020 , 32, 17703-17729 | 4.8 | 16 |

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| 120 | An improved Dragonfly Algorithm for feature selection. <i>Knowledge-Based Systems</i> , 2020 , 203, 106131 | 7.3 | 58 |
| 119 | Island artificial bee colony for global optimization. <i>Soft Computing</i> , 2020 , 24, 13461-13487 | 3.5 | 17 |
| 118 | EEG Signals Denoising Using Optimal Wavelet Transform Hybridized With Efficient Metaheuristic Methods. <i>IEEE Access</i> , 2020 , 8, 10584-10605 | 3.5 | 41 |
| 117 | Person identification using EEG channel selection with hybrid flower pollination algorithm. <i>Pattern Recognition</i> , 2020 , 105, 107393 | 7.7 | 22 |
| 116 | A TRIZ-inspired bat algorithm for gene selection in cancer classification. <i>Genomics</i> , 2020 , 112, 114-126 | 4.3 | 24 |
| 115 | ISA: a hybridization between iterated local search and simulated annealing for multiple-runway aircraft landing problem. <i>Neural Computing and Applications</i> , 2020 , 32, 11745-11765 | 4.8 | 6 |
| 114 | Link-based multi-verse optimizer for text documents clustering. <i>Applied Soft Computing Journal</i> , 2020 , 87, 106002 | 7.5 | 29 |
| 113 | The monarch butterfly optimization algorithm for solving feature selection problems. <i>Neural Computing and Applications</i> , 2020 , 1 | 4.8 | 38 |
| 112 | Binary JAYA Algorithm with Adaptive Mutation for Feature Selection. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 10875-10890 | 2.5 | 10 |
| 111 | Intrusion detection system based on a modified binary grey wolf optimisation. <i>Neural Computing and Applications</i> , 2020 , 32, 6125-6137 | 4.8 | 27 |
| 110 | A non-convex economic load dispatch problem with valve loading effect using a hybrid grey wolf optimizer. <i>Neural Computing and Applications</i> , 2020 , 32, 12127-12154 | 4.8 | 22 |
| 109 | (beta)-Hill climbing algorithm with probabilistic neural network for classification problems. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 11, 3405-3416 | 3.7 | 13 |
| 108 | A Survey on Accessible Context-Aware Systems. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 29-63 | 0.6 | 4 |
| 107 | Coronavirus herd immunity optimizer (CHIO). <i>Neural Computing and Applications</i> , 2020 , 33, 1-32 | 4.8 | 62 |
| 106 | A Text Feature Selection Technique based on Binary Multi-Verse Optimizer for Text Clustering 2019 , | | 14 |
| 105 | Optimization methods for power scheduling problems in smart home: Survey. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 115, 109362 | 16.2 | 50 |
| 104 | The effects of EEG feature extraction using multi-wavelet decomposition for mental tasks classification 2019 , | | 13 |
| 103 | Adaptive (beta -)hill climbing for optimization. <i>Soft Computing</i> , 2019 , 23, 13489-13512 | 3.5 | 20 |

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| 102 | Island flower pollination algorithm for global optimization. <i>Journal of Supercomputing</i> , 2019 , 75, 5280-5323 | 3.5 | 29 |
| 101 | Natural selection methods for artificial bee colony with new versions of onlooker bee. <i>Soft Computing</i> , 2019 , 23, 6455-6494 | 3.5 | 33 |
| 100 | Particle Swarm optimization Algorithm for Power Scheduling Problem Using Smart Battery 2019 , | | 23 |
| 99 | Flow shop scheduling with blocking using modified harmony search algorithm with neighboring heuristics methods. <i>Applied Soft Computing Journal</i> , 2019 , 85, 105861 | 7.5 | 4 |
| 98 | Multi-objective power scheduling problem in smart homes using grey wolf optimiser. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019 , 10, 3643-3667 | 3.7 | 25 |
| 97 | Multiple-Reservoir Scheduling Using Hill Climbing Algorithm. <i>Journal of Intelligent Systems</i> , 2019 , 28, 559-570 | 1.5 | 12 |
| 96 | Island bat algorithm for optimization. <i>Expert Systems With Applications</i> , 2018 , 107, 126-145 | 7.8 | 69 |
| 95 | A Non-convex Economic Dispatch Problem with Valve Loading Effect Using a New Modified (beta)-Hill Climbing Local Search Algorithm. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 7439-7456 | 2.5 | 24 |
| 94 | A survey of techniques for architecting SLC/MLC/TLC hybrid Flash memory based SSDs. <i>Concurrency Computation Practice and Experience</i> , 2018 , 30, e4420 | 1.4 | 10 |
| 93 | An ensemble of intelligent water drop algorithm for feature selection optimization problem. <i>Applied Soft Computing Journal</i> , 2018 , 65, 531-541 | 7.5 | 12 |
| 92 | Harmony Search Algorithm for Patient Admission Scheduling Problem. <i>Journal of Intelligent Systems</i> , 2018 , 29, 540-553 | 1.5 | 7 |
| 91 | Economic load dispatch problems with valve-point loading using natural updated harmony search. <i>Neural Computing and Applications</i> , 2018 , 29, 767-781 | 4.8 | 47 |
| 90 | MAX-SAT Problem using Hybrid Harmony Search Algorithm. <i>Journal of Intelligent Systems</i> , 2018 , 27, 643-658 | 1.5 | 3 |
| 89 | Variants of the Flower Pollination Algorithm: A Review. <i>Studies in Computational Intelligence</i> , 2018 , 91-1188 | | 43 |
| 88 | Natural selection methods for Grey Wolf Optimizer. <i>Expert Systems With Applications</i> , 2018 , 113, 481-498 | 9.8 | 55 |
| 87 | A Grey Wolf Optimizer for Text Document Clustering. <i>Journal of Intelligent Systems</i> , 2018 , 29, 814-830 | 1.5 | 22 |
| 86 | Classification of EEG mental tasks using Multi-Objective Flower Pollination Algorithm for Person Identification. <i>International Journal of Integrated Engineering</i> , 2018 , 10, | 1.5 | 15 |
| 85 | Grey wolf optimizer: a review of recent variants and applications. <i>Neural Computing and Applications</i> , 2018 , 30, 413-435 | 4.8 | 287 |

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| 84 | Optimized symmetric partial facegraphs for face recognition in adverse conditions. <i>Information Sciences</i> , 2018 , 429, 194-214 | 7.7 | 3 |
| 83 | Hybridizing Hill climbing with wavelet transform for denoising ECG signals. <i>Information Sciences</i> , 2018 , 429, 229-246 | 7.7 | 56 |
| 82 | Bat-inspired algorithms with natural selection mechanisms for global optimization. <i>Neurocomputing</i> , 2018 , 273, 448-465 | 5.4 | 58 |
| 81 | A Dragonfly Algorithm for Solving Traveling Salesman Problem 2018 , | | 6 |
| 80 | An Optimal Power Scheduling for Smart Home Appliances with Smart Battery using Grey Wolf Optimizer 2018 , | | 8 |
| 79 | EEG-based Person Authentication Using Multi-objective Flower Pollination Algorithm 2018 , | | 18 |
| 78 | A Hybrid Filter-Wrapper Gene Selection Method for Cancer Classification 2018 , | | 12 |
| 77 | An Efficient Optimization Technique of EEG Decomposition for User Authentication System 2018 , | | 16 |
| 76 | EEG Feature Extraction for Person Identification Using Wavelet Decomposition and Multi-Objective Flower Pollination Algorithm. <i>IEEE Access</i> , 2018 , 6, 76007-76024 | 3.5 | 22 |
| 75 | A novel gene selection method using modified MRMR and hybrid bat-inspired algorithm with Hill climbing. <i>Applied Intelligence</i> , 2018 , 48, 4429-4447 | 4.9 | 33 |
| 74 | Hybridization of harmony search with hill climbing for highly constrained nurse rostering problem. <i>Neural Computing and Applications</i> , 2017 , 28, 463-482 | 4.8 | 25 |
| 73 | NADTW: new approach for detecting TCP worm. <i>Neural Computing and Applications</i> , 2017 , 28, 525-538 | 4.8 | 3 |
| 72 | (beta)-Hill climbing: an exploratory local search. <i>Neural Computing and Applications</i> , 2017 , 28, 153-168 | 4.8 | 64 |
| 71 | A survey on applications and variants of the cuckoo search algorithm. <i>Applied Soft Computing Journal</i> , 2017 , 61, 1041-1059 | 7.5 | 151 |
| 70 | Hybridizing cuckoo search algorithm with hill climbing for numerical optimization problems 2017 , | | 27 |
| 69 | ECG signal denoising using Hill climbing algorithm and wavelet transform 2017 , | | 9 |
| 68 | A membrane-inspired bat algorithm to recognize faces in unconstrained scenarios. <i>Engineering Applications of Artificial Intelligence</i> , 2017 , 64, 242-260 | 7.2 | 19 |
| 67 | Performance and reliability concern scheme for efficient garbage collection and wear leveling on flash memory-based solid state disk. <i>Microsystem Technologies</i> , 2017 , 23, 2521-2535 | 1.7 | 2 |

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| 66 | Hill Climbing Algorithm for Sudoku Game 2017 , | | 12 |
| 65 | Feature Selection with Hill Climbing Search for Text Clustering Application 2017 , | | 21 |
| 64 | Text feature selection with a robust weight scheme and dynamic dimension reduction to text document clustering. <i>Expert Systems With Applications</i> , 2017 , 84, 24-36 | 7.8 | 136 |
| 63 | Gene selection for cancer classification by combining minimum redundancy maximum relevancy and bat-inspired algorithm. <i>International Journal of Data Mining and Bioinformatics</i> , 2017 , 19, 32 | 0.5 | 50 |
| 62 | Unsupervised Text Feature Selection Technique Based on Particle Swarm Optimization Algorithm for Improving the Text Clustering 2017 , | | 18 |
| 61 | A comprehensive review: Krill Herd algorithm (KH) and its applications. <i>Applied Soft Computing Journal</i> , 2016 , 49, 437-446 | 7.5 | 100 |
| 60 | Multi-objectives-based text clustering technique using K-mean algorithm 2016 , | | 24 |
| 59 | Tournament-based harmony search algorithm for non-convex economic load dispatch problem. <i>Applied Soft Computing Journal</i> , 2016 , 47, 449-459 | 7.5 | 66 |
| 58 | Recognizing faces prone to occlusions and common variations using optimal face subgraphs. <i>Applied Mathematics and Computation</i> , 2016 , 283, 316-332 | 2.7 | 7 |
| 57 | Taming the 0/1 knapsack problem with monogamous pairs genetic algorithm. <i>Expert Systems With Applications</i> , 2016 , 54, 241-250 | 7.8 | 22 |
| 56 | 3-SAT Using Island-based Genetic Algorithm. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2016 , 136, 1694-1698 | 0.1 | 6 |
| 55 | New Selection Schemes for Particle Swarm Optimization. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2016 , 136, 1706-1711 | 0.1 | 14 |
| 54 | A krill herd algorithm for efficient text documents clustering 2016 , | | 30 |
| 53 | Gray image enhancement using harmony search. <i>International Journal of Computational Intelligence Systems</i> , 2016 , 9, 932-944 | 3.4 | 19 |
| 52 | Unsupervised feature selection technique based on genetic algorithm for improving the Text Clustering 2016 , | | 29 |
| 51 | Unsupervised feature selection technique based on harmony search algorithm for improving the text clustering 2016 , | | 8 |
| 50 | A hybrid artificial bee colony for a nurse rostering problem. <i>Applied Soft Computing Journal</i> , 2015 , 35, 726-739 | 7.5 | 44 |
| 49 | An ensemble of intelligent water drop algorithms and its application to optimization problems. <i>Information Sciences</i> , 2015 , 325, 175-189 | 7.7 | 11 |

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| 48 | Solving University Examination Timetabling Problem Using Intelligent Water Drops Algorithm. <i>Lecture Notes in Computer Science</i> , 2015 , 187-200 | 0.9 | 0 |
| 47 | Island-based harmony search for optimization problems. <i>Expert Systems With Applications</i> , 2015 , 42, 2026-803546 | | |
| 46 | Monogamous pair bonding in genetic algorithm 2015 , | | 5 |
| 45 | A Hybrid Nature-Inspired Artificial Bee Colony Algorithm for Uncapacitated Examination Timetabling Problems. <i>Journal of Intelligent Systems</i> , 2015 , 24, 37-54 | 1.5 | 17 |
| 44 | Adaptive pair bonds in genetic algorithm: An application to real-parameter optimization. <i>Applied Mathematics and Computation</i> , 2015 , 252, 503-519 | 2.7 | 11 |
| 43 | Solving Nurse Rostering Problem Using Artificial Bee Colony Algorithm 2015 , | | 3 |
| 42 | Memetic techniques for examination timetabling. <i>Annals of Operations Research</i> , 2014 , 218, 23-50 | 3.2 | 30 |
| 41 | Mobile game approach to prevent childhood obesity using persuasive technology 2014 , | | 6 |
| 40 | University course timetabling using hybridized artificial bee colony with hill climbing optimizer. <i>Journal of Computational Science</i> , 2014 , 5, 809-818 | 3.4 | 33 |
| 39 | A modified Intelligent Water Drops algorithm and its application to optimization problems. <i>Expert Systems With Applications</i> , 2014 , 41, 6555-6569 | 7.8 | 45 |
| 38 | HARMONY SEARCH WITH NOVEL SELECTION METHODS IN MEMORY CONSIDERATION FOR NURSE ROSTERING PROBLEM. <i>Asia-Pacific Journal of Operational Research</i> , 2014 , 31, 1450014 | 0.8 | 9 |
| 37 | Hyper-heuristic approach for solving nurse rostering problem 2014 , | | 4 |
| 36 | Development on Harmony Search Hyper-heuristic Framework for Examination Timetabling Problem. <i>Lecture Notes in Computer Science</i> , 2014 , 87-95 | 0.9 | 2 |
| 35 | Multiple adaptive neuro-fuzzy inference system with automatic features extraction algorithm for cervical cancer recognition. <i>Computational and Mathematical Methods in Medicine</i> , 2014 , 2014, 181245 | 2.8 | 4 |
| 34 | A Modified Artificial Bee Colony Algorithm for Post-enrolment Course Timetabling. <i>Lecture Notes in Computer Science</i> , 2013 , 377-386 | 0.9 | 2 |
| 33 | The design of RIA accessibility evaluation tool. <i>Advances in Engineering Software</i> , 2013 , 57, 1-7 | 3.6 | 19 |
| 32 | Hybrid Harmony Search for Nurse Rostering Problems 2013 , | | 3 |
| 31 | 2013 , | | 2 |

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| 30 | Towards a more accessible e-government in Jordan: an evaluation study of visually impaired users and Web developers. <i>Behaviour and Information Technology</i> , 2013 , 32, 273-293 | 2.4 | 21 |
| 29 | Harmony Search-based Hyper-heuristic for examination timetabling 2013 , | | 12 |
| 28 | An analysis of selection methods in memory consideration for harmony search. <i>Applied Mathematics and Computation</i> , 2013 , 219, 10753-10767 | 2.7 | 30 |
| 27 | Global best Harmony Search with a new pitch adjustment designed for Nurse Rostering. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2013 , 25, 145-162 | 2.5 | 8 |
| 26 | Incorporating Great Deluge with Harmony Search for Global Optimization Problems. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 275-286 | 0.4 | 1 |
| 25 | Cellular Harmony Search for Optimization Problems. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-20 | 1.1 | 18 |
| 24 | Analysis of takeover time and convergence rate for harmony search with novel selection methods. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2013 , 4, 305 | 0.3 | 3 |
| 23 | Intelligent Water Drops Algorithm for Rough Set Feature Selection. <i>Lecture Notes in Computer Science</i> , 2013 , 356-365 | 0.9 | 9 |
| 22 | Hybridizing Harmony Search Algorithm with Multi-Parent Crossover to Solve Real World Optimization Problems. <i>International Journal of Applied Metaheuristic Computing</i> , 2013 , 4, 1-14 | 0.8 | 5 |
| 21 | A harmony search algorithm for university course timetabling. <i>Annals of Operations Research</i> , 2012 , 194, 3-31 | 3.2 | 88 |
| 20 | . <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012 , 42, 664-681 | | 67 |
| 19 | A hybrid harmony search algorithm for ab initio protein tertiary structure prediction. <i>Network Modeling Analysis in Health Informatics and Bioinformatics</i> , 2012 , 1, 69-85 | 1.6 | 16 |
| 18 | Edge preserving image enhancement via harmony search algorithm 2012 , | | 4 |
| 17 | Artificial Bee Colony Algorithm for Solving Educational Timetabling Problems. <i>International Journal of Natural Computing Research</i> , 2012 , 3, 1-21 | 0.6 | 6 |
| 16 | Novel selection schemes for harmony search. <i>Applied Mathematics and Computation</i> , 2012 , 218, 6095-6117 | 1.7 | 70 |
| 15 | A multiswap algorithm for the university course timetabling problem 2012 , | | 3 |
| 14 | Harmony Search with Greedy Shuffle for Nurse Rostering. <i>International Journal of Natural Computing Research</i> , 2012 , 3, 22-42 | 0.6 | 7 |
| 13 | Office-Space-Allocation Problem Using Harmony Search Algorithm. <i>Lecture Notes in Computer Science</i> , 2012 , 365-374 | 0.9 | 7 |

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| 12 | Data Clustering Using Harmony Search Algorithm. <i>Lecture Notes in Computer Science</i> , 2011 , 79-88 | 0.9 | 18 |
| 11 | Nurse Scheduling Using Harmony Search 2011 , | | 11 |
| 10 | An Improved Artificial Bee Colony for Course Timetabling 2011 , | | 9 |
| 9 | Nurse Rostering Using Modified Harmony Search Algorithm. <i>Lecture Notes in Computer Science</i> , 2011 , 27-37 | 0.9 | 15 |
| 8 | Selection mechanisms in memory consideration for examination timetabling with harmony search 2010 , | | 23 |
| 7 | Adaptive genetic algorithm using harmony search 2010 , | | 6 |
| 6 | A Harmony Search with Multi-pitch Adjusting Rate for the University Course Timetabling. <i>Studies in Computational Intelligence</i> , 2010 , 147-161 | 0.8 | 39 |
| 5 | Wind Driven Optimization With Smart Home Battery for Power Scheduling Problem in Smart Home | | 1 |
| 4 | Multi-objective flower pollination algorithm: a new technique for EEG signal denoising. <i>Neural Computing and Applications</i> ,1 | 4.8 | 0 |
| 3 | Coronavirus herd immunity optimizer (CHIO) | | 6 |
| 2 | Improved sine cosine algorithm with simulated annealing and singer chaotic map for Hadith classification. <i>Neural Computing and Applications</i> ,1 | 4.8 | 6 |
| 1 | Hybrid multi-verse optimizer with grey wolf optimizer for power scheduling problem in smart home using IoT. <i>Journal of Supercomputing</i> ,1 | 2.5 | 2 |