

Zong Woo Geem

List of Publications by Year in descending order

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194
papers

16,270
citations

57631

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122
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199
all docs

199
docs citations

199
times ranked

7685
citing authors

#	ARTICLE	IF	CITATIONS
1	A new meta-heuristic algorithm for continuous engineering optimization: harmony search theory and practice. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005, 194, 3902-3933.	3.4	1,508
2	A new structural optimization method based on the harmony search algorithm. <i>Computers and Structures</i> , 2004, 82, 781-798.	2.4	944
3	Reptile Search Algorithm (RSA): A nature-inspired meta-heuristic optimizer. <i>Expert Systems With Applications</i> , 2022, 191, 116158.	4.4	693
4	Optimal cost design of water distribution networks using harmony search. <i>Engineering Optimization</i> , 2006, 38, 259-277.	1.5	509
5	The harmony search heuristic algorithm for discrete structural optimization. <i>Engineering Optimization</i> , 2005, 37, 663-684.	1.5	334
6	PARAMETER ESTIMATION OF THE NONLINEAR MUSKINGUM MODEL USING HARMONY SEARCH. <i>Journal of the American Water Resources Association</i> , 2001, 37, 1131-1138.	1.0	332
7	A survey on applications of the harmony search algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2013, 26, 1818-1831.	4.3	317
8	Harmony Search Optimization: Application to Pipe Network Design. <i>International Journal of Modelling and Simulation</i> , 2002, 22, 125-133.	2.3	300
9	Novel derivative of harmony search algorithm for discrete design variables. <i>Applied Mathematics and Computation</i> , 2008, 199, 223-230.	1.4	241
10	Application of Harmony Search to Vehicle Routing. <i>American Journal of Applied Sciences</i> , 2005, 2, 1552-1557.	0.1	239
11	Design of low-emission and energy-efficient residential buildings using a multi-objective optimization algorithm. <i>Building and Environment</i> , 2012, 49, 245-250.	3.0	233
12	Particle-swarm harmony search for water network design. <i>Engineering Optimization</i> , 2009, 41, 297-311.	1.5	215
13	A Critical Review of Robustness in Power Grids Using Complex Networks Concepts. <i>Energies</i> , 2015, 8, 9211-9265.	1.6	195
14	Parameter-setting-free harmony search algorithm. <i>Applied Mathematics and Computation</i> , 2010, 217, 3881-3889.	1.4	185
15	Efficient Pneumonia Detection in Chest Xray Images Using Deep Transfer Learning. <i>Diagnostics</i> , 2020, 10, 417.	1.3	179
16	Energy demand estimation of South Korea using artificial neural network. <i>Energy Policy</i> , 2009, 37, 4049-4054.	4.2	170
17	Harmony Search for Generalized Orienteering Problem: Best Touring in China. <i>Lecture Notes in Computer Science</i> , 2005, , 741-750.	1.0	145
18	Parameter Estimation for the Nonlinear Muskingum Model Using the BFGS Technique. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2006, 132, 474-478.	0.6	143

#	ARTICLE	IF	CITATIONS
19	Metaheuristics in structural optimization and discussions on harmony search algorithm. Swarm and Evolutionary Computation, 2016, 28, 88-97.	4.5	135
20	Pneumonia detection in chest X-ray images using an ensemble of deep learning models. PLoS ONE, 2021, 16, e0256630.	1.1	132
21	Size optimization for a hybrid photovoltaic-wind energy system. International Journal of Electrical Power and Energy Systems, 2012, 42, 448-451.	3.3	130
22	Parameter Estimation of the Nonlinear Muskingum Flood-Routing Model Using a Hybrid Harmony Search Algorithm. Journal of Hydrologic Engineering - ASCE, 2013, 18, 352-360.	0.8	119
23	A Comprehensive Survey of the Harmony Search Algorithm in Clustering Applications. Applied Sciences (Switzerland), 2020, 10, 3827.	1.3	98
24	Optimal Scheduling of Multiple Dam System Using Harmony Search Algorithm. , 2007, , 316-323.		97
25	Large-scale combined heat and power economic dispatch using a novel multi-player harmony search method. Applied Thermal Engineering, 2019, 154, 493-504.	3.0	96
26	Multiobjective Optimization of Time-Cost Trade-Off Using Harmony Search. Journal of Construction Engineering and Management - ASCE, 2010, 136, 711-716.	2.0	93
27	Parameter Estimation of the Nonlinear Muskingum Model Using Parameter-Setting-Free Harmony Search. Journal of Hydrologic Engineering - ASCE, 2011, 16, 684-688.	0.8	88
28	Harmony Search Algorithm for Solving Sudoku. , 2007, , 371-378.		84
29	Improved Binary Sailfish Optimizer Based on Adaptive \hat{I}^2 -Hill Climbing for Feature Selection. IEEE Access, 2020, 8, 83548-83560.	2.6	80
30	Harmony search optimization of renewable energy charging with energy storage system. International Journal of Electrical Power and Energy Systems, 2017, 86, 120-126.	3.3	77
31	Investigations of Object Detection in Images/Videos Using Various Deep Learning Techniques and Embedded Platforms—A Comprehensive Review. Applied Sciences (Switzerland), 2020, 10, 3280.	1.3	76
32	Mayfly in Harmony: A New Hybrid Meta-Heuristic Feature Selection Algorithm. IEEE Access, 2020, 8, 195929-195945.	2.6	72
33	A Coral Reefs Optimization algorithm with Harmony Search operators for accurate wind speed prediction. Renewable Energy, 2015, 75, 93-101.	4.3	69
34	Review of harmony search with respect to algorithm structure. Swarm and Evolutionary Computation, 2019, 48, 31-43.	4.5	65
35	Harmony Search in Water Pump Switching Problem. Lecture Notes in Computer Science, 2005, , 751-760.	1.0	63
36	Mathematical and Metaheuristic Applications in Design Optimization of Steel Frame Structures: An Extensive Review. Mathematical Problems in Engineering, 2013, 2013, 1-33.	0.6	61

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37	State-of-the-Art in the Structure of Harmony Search Algorithm. Studies in Computational Intelligence, 2010, , 1-10.	0.7	57
38	Binary Social Mimic Optimization Algorithm With X-Shaped Transfer Function for Feature Selection. IEEE Access, 2020, 8, 97890-97906.	2.6	56
39	Harmony search optimisation to the pump-included water distribution network design. Civil Engineering and Environmental Systems, 2009, 26, 211-221.	0.4	55
40	Improved Harmony Search from Ensemble of Music Players. Lecture Notes in Computer Science, 2006, , 86-93.	1.0	53
41	An Optimized Protection Coordination Scheme for the Optimal Coordination of Overcurrent Relays Using a Nature-Inspired Root Tree Algorithm. Applied Sciences (Switzerland), 2018, 8, 1664.	1.3	52
42	Optimum Design of PID Controlled Active Tuned Mass Damper via Modified Harmony Search. Applied Sciences (Switzerland), 2020, 10, 2976.	1.3	52
43	Optimal Design of Water Distribution Networks Using Parameter-Setting-Free Harmony Search for Two Major Parameters. Journal of Water Resources Planning and Management - ASCE, 2011, 137, 377-380.	1.3	50
44	Transport energy demand modeling of South Korea using artificial neural network. Energy Policy, 2011, 39, 4644-4650.	4.2	50
45	A comparison study of harmony search and genetic algorithm for the max-cut problem. Swarm and Evolutionary Computation, 2019, 44, 130-135.	4.5	49
46	Late Acceptance Hill Climbing Based Social Ski Driver Algorithm for Feature Selection. IEEE Access, 2020, 8, 75393-75408.	2.6	47
47	Music Composition Using Harmony Search Algorithm. , 2007, , 593-600.		46
48	Prioritizing and Analyzing the Role of Climate and Urban Parameters in the Confirmed Cases of COVID-19 Based on Artificial Intelligence Applications. International Journal of Environmental Research and Public Health, 2020, 17, 3730.	1.2	46
49	Determination of viscoelastic and damage properties of hot mix asphalt concrete using a harmony search algorithm. Mechanics of Materials, 2009, 41, 339-353.	1.7	44
50	Determination of Optimal Initial Weights of an Artificial Neural Network by Using the Harmony Search Algorithm: Application to Breakwater Armor Stones. Applied Sciences (Switzerland), 2016, 6, 164.	1.3	44
51	A new nonlinear Muskingum flood routing model incorporating lateral flow. Engineering Optimization, 2015, 47, 737-749.	1.5	43
52	Vanishing point detection for self-driving car using harmony search algorithm. Swarm and Evolutionary Computation, 2018, 41, 111-119.	4.5	42
53	Feature Selection for Facial Emotion Recognition Using Cosine Similarity-Based Harmony Search Algorithm. Applied Sciences (Switzerland), 2020, 10, 2816.	1.3	42
54	Handling non-convex heat-power feasible region in combined heat and power economic dispatch. International Journal of Electrical Power and Energy Systems, 2012, 34, 171-173.	3.3	41

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55	Solution quality improvement in chiller loading optimization. <i>Applied Thermal Engineering</i> , 2011, 31, 1848-1851.	3.0	40
56	Multiobjective Optimization of Water Distribution Networks Using Fuzzy Theory and Harmony Search. <i>Water (Switzerland)</i> , 2015, 7, 3613-3625.	1.2	40
57	Generation of Synthetic Chest X-ray Images and Detection of COVID-19: A Deep Learning Based Approach. <i>Diagnostics</i> , 2021, 11, 895.	1.3	39
58	Hybrid of Harmony Search Algorithm and Ring Theory-Based Evolutionary Algorithm for Feature Selection. <i>IEEE Access</i> , 2020, 8, 102629-102645.	2.6	36
59	An analysis of selection methods in memory consideration for harmony search. <i>Applied Mathematics and Computation</i> , 2013, 219, 10753-10767.	1.4	35
60	A novel harmony search based optimization of reinforced concrete biaxially loaded columns. <i>Structural Engineering and Mechanics</i> , 2015, 54, 1097-1109.	1.0	34
61	COVID-19 Detection by Optimizing Deep Residual Features with Improved Clustering-Based Golden Ratio Optimizer. <i>Diagnostics</i> , 2021, 11, 315.	1.3	33
62	Harmony Search Applications in Industry. , 0, , 117-134.		33
63	Determination of individual sound power levels of noise sources using a harmony search algorithm. <i>International Journal of Industrial Ergonomics</i> , 2009, 39, 366-370.	1.5	32
64	Overview of Harmony Search algorithm and its applications in Civil Engineering. <i>Evolutionary Intelligence</i> , 2014, 7, 3-16.	2.3	32
65	Sustainability and Optimization: From Conceptual Fundamentals to Applications. <i>Sustainability</i> , 2020, 12, 2027.	1.6	31
66	Harmony search algorithm for energy system applications: an updated review and analysis. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2019, 31, 723-749.	1.8	30
67	Optimal scheduling for maintenance period of generating units using a hybrid scatter genetic algorithm. <i>IET Generation, Transmission and Distribution</i> , 2015, 9, 22-30.	1.4	29
68	Predicting future onset of depression among community dwelling adults in the Republic of Korea using a machine learning algorithm. <i>Neuroscience Letters</i> , 2020, 721, 134804.	1.0	29
69	Comprehensive Evaluation of Machine Learning MPPT Algorithms for a PV System Under Different Weather Conditions. <i>Journal of Electrical Engineering and Technology</i> , 2021, 16, 411-427.	1.2	29
70	Choquet Integral and Coalition Game-Based Ensemble of Deep Learning Models for COVID-19 Screening From Chest X-Ray Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 4328-4339.	3.9	29
71	A Novel Hybrid Harmony Search Approach for the Analysis of Plane Stress Systems via Total Potential Optimization. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2301.	1.3	28
72	Eco-Friendly Design of Reinforced Concrete Retaining Walls: Multi-objective Optimization with Harmony Search Applications. <i>Sustainability</i> , 2020, 12, 6087.	1.6	27

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73	Optimal Design of Cantilever Soldier Pile Retaining Walls Embedded in Frictional Soils with Harmony Search Algorithm. Applied Sciences (Switzerland), 2020, 10, 3232.	1.3	27
74	Effects of initial memory and identical harmony in global optimization using harmony search algorithm. Applied Mathematics and Computation, 2012, 218, 11337-11343.	1.4	24
75	An Exploratory Analysis on Visual Counterfeits Using Conv-LSTM Hybrid Architecture. IEEE Access, 2020, 8, 101293-101308.	2.6	23
76	Application of Harmony Search Algorithm to Slope Stability Analysis. Land, 2021, 10, 1250.	1.2	23
77	Issues in optimal parameter estimation for the nonlinear Muskingum flood routing model. Engineering Optimization, 2014, 46, 328-339.	1.5	22
78	Adaptive Kalman Filter Based on Adjustable Sampling Interval in Burst Detection for Water Distribution System. Water (Switzerland), 2016, 8, 142.	1.2	22
79	Parameter Estimation for a Proton Exchange Membrane Fuel Cell Model Using GRG Technique. Fuel Cells, 2016, 16, 640-645.	1.5	22
80	EHHM: Electrical Harmony Based Hybrid Meta-Heuristic for Feature Selection. IEEE Access, 2020, 8, 158125-158141.	2.6	22
81	Trenchless Water Pipe Condition Assessment Using Artificial Neural Network. , 2007, , 1.		21
82	Interpretable Machine Learning Algorithms to Predict the Axial Capacity of FRP-Reinforced Concrete Columns. Materials, 2022, 15, 2742.	1.3	21
83	Optimisation of Shear and Lateral Torsional Buckling of Steel Plate Girders Using Meta-Heuristic Algorithms. Applied Sciences (Switzerland), 2020, 10, 3639.	1.3	20
84	Adaptive-Hybrid Harmony Search Algorithm for Multi-Constrained Optimum Eco-Design of Reinforced Concrete Retaining Walls. Sustainability, 2021, 13, 1639.	1.6	20
85	Strategic Market Growth and Policy Recommendations for Sustainable Solar Energy Deployment in South Korea. Journal of Electrical Engineering and Technology, 2020, 15, 803-815.	1.2	19
86	Design of Rotor Blades for Vertical Axis Wind Turbine with Wind Flow Modifier for Low Wind Profile Areas. Sustainability, 2020, 12, 8050.	1.6	19
87	A Comprehensive Review of Deep Learning Strategies in Retinal Disease Diagnosis Using Fundus Images. IEEE Access, 2022, 10, 57796-57823.	2.6	19
88	Parameter Optimization of Single-Diode Model of Photovoltaic Cell Using Memetic Algorithm. International Journal of Photoenergy, 2015, 2015, 1-7.	1.4	18
89	FashionFit: Analysis of Mapping 3D Pose and Neural Body Fit for Custom Virtual Try-On. IEEE Access, 2020, 8, 91603-91615.	2.6	18
90	Mooring Cost Optimization via Harmony Search. , 2007, , 355.		17

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91	Feature Selection for Colon Cancer Detection Using K-Means Clustering and Modified Harmony Search Algorithm. <i>Mathematics</i> , 2021, 9, 570.	1.1	17
92	Sensitivity Analysis for Performance Evaluation of a Real Water Distribution System by a Pressure Driven Analysis Approach and Artificial Intelligence Method. <i>Water (Switzerland)</i> , 2021, 13, 1116.	1.2	17
93	Harmony Search Algorithms for Water and Environmental Systems. <i>Studies in Computational Intelligence</i> , 2009, , 113-127.	0.7	17
94	Evaluation of Contributing Factors Affecting Number of Vehicles Involved in Crashes Using Machine Learning Techniques in Rural Roads of Cosenza, Italy. <i>Safety</i> , 2022, 8, 28.	0.9	17
95	Hyperparameter Optimization Method Based on Harmony Search Algorithm to Improve Performance of 1D CNN Human Respiration Pattern Recognition System. <i>Sensors</i> , 2020, 20, 3697.	2.1	16
96	Harmony Search Optimisation of Dispersed Laminated Composite Plates. <i>Materials</i> , 2020, 13, 2862.	1.3	16
97	High-Speed Interval Type-2 Fuzzy Systems for Dynamic Parameter Adaptation in Harmony Search for Optimal Design of Fuzzy Controllers. <i>Mathematics</i> , 2021, 9, 758.	1.1	16
98	Harmony search for structural design. , 2005, , .		15
99	CO2 and Cost Optimization of Reinforced Concrete Cantilever Soldier Piles: A Parametric Study with Harmony Search Algorithm. <i>Sustainability</i> , 2020, 12, 5906.	1.6	15
100	Optimized Energy Cost and Carbon Emission-Aware Virtual Machine Allocation in Sustainable Data Centers. <i>Sustainability</i> , 2020, 12, 6383.	1.6	15
101	Research Commentary. <i>International Journal of Applied Metaheuristic Computing</i> , 2010, 1, 75-79.	0.5	15
102	Improved Formulation for the Optimization of Wind Turbine Placement in a Wind Farm. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-5.	0.6	14
103	Optimal Design of a Residential Photovoltaic Renewable System in South Korea. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1138.	1.3	14
104	Solar Collectors Modeling and Controller Design for Solar Thermal Power Plant. <i>IEEE Access</i> , 2020, 8, 81425-81446.	2.6	14
105	Development of a Binary Model for Evaluating Water Distribution Systems by a Pressure Driven Analysis (PDA) Approach. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3029.	1.3	14
106	LARNet: Real-Time Detection of Facial Micro Expression Using Lossless Attention Residual Network. <i>Sensors</i> , 2021, 21, 1098.	2.1	14
107	Parameters Optimization of Taguchi Method Integrated Hybrid Harmony Search Algorithm for Engineering Design Problems. <i>Mathematics</i> , 2022, 10, 327.	1.1	14
108	Optimization of Seismic Base Isolation System Using Adaptive Harmony Search Algorithm. <i>Sustainability</i> , 2022, 14, 7456.	1.6	14

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109	Optimal Dimensioning of Retaining Walls Using Explainable Ensemble Learning Algorithms. <i>Materials</i> , 2022, 15, 4993.	1.3	14
110	Economic Dispatch Using Parameter-Setting-Free Harmony Search. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-5.	0.4	13
111	A Memetic Approach for Improving Minimum Cost of Economic Load Dispatch Problems. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-11.	0.6	13
112	A Novel Human Respiration Pattern Recognition Using Signals of Ultra-Wideband Radar Sensor. <i>Sensors</i> , 2019, 19, 3340.	2.1	13
113	Influence of Building Information Modeling (BIM) Implementation in High-Rise Buildings towards Sustainability. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7626.	1.3	13
114	Development of a Suicide Prediction Model for the Elderly Using Health Screening Data. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 10150.	1.2	13
115	Adaptive Harmony Search for Tuned Liquid Damper Optimization under Seismic Excitation. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2645.	1.3	13
116	Optimal Energy Mix with Renewable Portfolio Standards in Korea. <i>Sustainability</i> , 2016, 8, 423.	1.6	12
117	A Novel Protection Scheme for Solar Photovoltaic Generator Connected Networks Using Hybrid Harmony Search Algorithm-Bollinger Bands Approach. <i>Energies</i> , 2020, 13, 2439.	1.6	12
118	The Usage of the Harmony Search Algorithm for the Optimal Design Problem of Reinforced Concrete Retaining Walls. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1343.	1.3	12
119	Predicting Depression in Community Dwellers Using a Machine Learning Algorithm. <i>Diagnostics</i> , 2021, 11, 1429.	1.3	12
120	Application of Computational Intelligence Techniques to an Environmental Flow Formula. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , 2018, 18, 237-244.	0.6	12
121	Optimal Design of Fuzzy Systems Using Differential Evolution and Harmony Search Algorithms with Dynamic Parameter Adaptation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6146.	1.3	11
122	Bond Strength Assessment of Concrete-Corroded Rebar Interface Using Artificial Neural Network. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4724.	1.3	11
123	Performance of Optimum Tuned PID Controller with Different Feedback Strategies on Active-Controlled Structures. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1682.	1.3	11
124	Total Potential Optimization Using Metaheuristic Algorithms for Solving Nonlinear Plane Strain Systems. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3220.	1.3	11
125	Hough Transform-Based Angular Features for Learning-Free Handwritten Keyword Spotting. <i>Sensors</i> , 2021, 21, 4648.	2.1	11
126	Revisiting the performance of evolutionary algorithms. <i>Expert Systems With Applications</i> , 2021, 175, 114819.	4.4	11

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127	Shadowed Type-2 Fuzzy Systems for Dynamic Parameter Adaptation in Harmony Search and Differential Evolution for Optimal Design of Fuzzy Controllers. <i>Mathematics</i> , 2021, 9, 2439.	1.1	11
128	Metaheuristic Optimization of Laminated Composite Plates with Cut-Outs. <i>Coatings</i> , 2021, 11, 1235.	1.2	11
129	Optimization of Tuned Liquid Damper Including Different Liquids for Lateral Displacement Control of Single and Multi-Story Structures. <i>Buildings</i> , 2022, 12, 377.	1.4	11
130	Modified Harmony Search Algorithm-Based Optimization for Eco-Friendly Reinforced Concrete Frames. <i>Sustainability</i> , 2022, 14, 3361.	1.6	11
131	Improving the performance of harmony search using opposition-based learning and quadratic interpolation. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2011, 2, 28.	0.1	10
132	Harmony Search Optimization of Nozzle Movement for Additive Manufacturing of Concrete Structures and Concrete Elements. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4413.	1.3	10
133	Prediction of suicide among 372,813 individuals under medical check-up. <i>Journal of Psychiatric Research</i> , 2020, 131, 9-14.	1.5	10
134	CO2 Emission Optimization of Concrete-Filled Steel Tubular Rectangular Stub Columns Using Metaheuristic Algorithms. <i>Sustainability</i> , 2021, 13, 10981.	1.6	10
135	Optimum Design of Cylindrical Walls Using Ensemble Learning Methods. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2165.	1.3	10
136	Optimal Planning of Multitype DGs and D-STATCOMs in Power Distribution Network Using an Efficient Parameter Free Metaheuristic Algorithm. <i>Energies</i> , 2022, 15, 3433.	1.6	10
137	Various continuous harmony search algorithms for web-based hydrologic parameter optimisation. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2010, 1, 213.	0.1	9
138	Generalised Adaptive Harmony Search: A Comparative Analysis of Modern Harmony Search. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-13.	0.4	9
139	An Island Grouping Genetic Algorithm for Fuzzy Partitioning Problems. <i>Scientific World Journal</i> , The, 2014, 2014, 1-15.	0.8	9
140	Wastewater Treatment Optimization for Fish Migration Using Harmony Search. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-5.	0.6	9
141	Improved Optimization for Wastewater Treatment and Reuse System Using Computational Intelligence. <i>Complexity</i> , 2018, 2018, 1-8.	0.9	9
142	CityGML-Based Road Information Model for Route Optimization of Snow-Removal Vehicle. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 588.	1.4	9
143	Harmony Search-Based Approach for Multi-Objective Software Architecture Reconstruction. <i>Mathematics</i> , 2020, 8, 1906.	1.1	9
144	Comparative Study of Harmony Search Algorithm and its Applications in China, Japan and Korea. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3970.	1.3	9

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145	Deep neural network applied to joint shear strength for exterior RC beam-column joints affected by cyclic loadings. Structures, 2021, 33, 1819-1832.	1.7	9
146	A Fully-Self-Adaptive Harmony Search GMDH-Type Neural Network Algorithm to Estimate Shear-Wave Velocity in Porous Media. Applied Sciences (Switzerland), 2022, 12, 6339.	1.3	9
147	Discussion on "Combined heat and power economic dispatch by harmony search algorithm" by A. Vasebi et al., International Journal of Electrical Power and Energy Systems 29 (2007) 713-719. International Journal of Electrical Power and Energy Systems, 2011, 33, 1348.	3.3	8
148	Harmony Search and Nature-Inspired Algorithms for Engineering Optimization. Journal of Applied Mathematics, 2013, 2013, 1-2.	0.4	8
149	Economic Dispatch Optimization of Multi-Water Resources: A Case Study of an Island in South Korea. Sustainability, 2019, 11, 5964.	1.6	8
150	A New Method for Analyzing the Performance of the Harmony Search Algorithm. Mathematics, 2020, 8, 1421.	1.1	8
151	Harmony Search Algorithm and Fuzzy Logic Theory: An Extensive Review from Theory to Applications. Mathematics, 2021, 9, 2665.	1.1	8
152	Optimal Placement of Renewable Energy Generators Using Grid-Oriented Genetic Algorithm for Loss Reduction and Flexibility Improvement. Energies, 2022, 15, 1863.	1.6	8
153	Window-Based Decision Support System for the Water Pipe Condition Assessment Using Artificial Neural Network. , 2003, , .		7
154	Stochastic co-derivative of harmony search algorithm. International Journal of Mathematical Modelling and Numerical Optimisation, 2011, 2, 1.	0.1	7
155	Sustainable Building Design: A Review on Recent Metaheuristic Methods. Studies in Computational Intelligence, 2015, , 203-223.	0.7	7
156	Prediction of depression among medical check-ups of 433,190 patients: A nationwide population-based study. Psychiatry Research, 2020, 293, 113474.	1.7	7
157	Advanced Parameter-Setting-Free Harmony Search Algorithm. Applied Sciences (Switzerland), 2020, 10, 2586.	1.3	7
158	Artificial Intelligence: An Energy Efficiency Tool for Enhanced High performance computing. Symmetry, 2020, 12, 1029.	1.1	7
159	Genetic Algorithm-based Optimal Investment Scheduling for Public Rental Housing Projects in South Korea. International Journal of Fuzzy Logic and Intelligent Systems, 2018, 18, 135-145.	0.6	7
160	DeepPlayer-Track: Player and Referee Tracking With Jersey Color Recognition in Soccer. IEEE Access, 2022, 10, 32494-32509.	2.6	7
161	Re-Allocation of Distributed Generations Using Available Renewable Potential Based Multi-Criterion-Multi-Objective Hybrid Technique. Sustainability, 2021, 13, 13709.	1.6	6
162	SinLU: Sinu-Sigmoidal Linear Unit. Mathematics, 2022, 10, 337.	1.1	6

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163	Hydraulic Analysis of Water Distribution Network Using Harmony Search. , 2009, , .		5
164	Can Music Supplant Math in Environmental Planning?. Leonardo, 2015, 48, 147-150.	0.2	5
165	Religion and Depression in South Korea: A Comparison between Buddhism, Protestantism, and Roman Catholicism. Religions, 2018, 9, 3.	0.3	5
166	Harmony Search Algorithm for Structural Engineering Problems. Springer Tracts in Nature-inspired Computing, 2021, , 13-47.	1.2	5
167	Investigation of Forecast Accuracy and its Impact on the Efficiency of Data-Driven Forecast-Based Reservoir Operating Rules. Water (Switzerland), 2021, 13, 2737.	1.2	5
168	Global Optimization Using Harmony Search: Theoretical Foundations and Applications. Studies in Computational Intelligence, 2009, , 57-73.	0.7	4
169	Sustainable Optimization for Wastewater Treatment System Using PSF-HS. Sustainability, 2016, 8, 321.	1.6	4
170	Cost-Optimized FPSO Mooring Design Via Harmony Search. Journal of Offshore Mechanics and Arctic Engineering, 2016, 138, .	0.6	4
171	A New Structural Optimization Method for Structures with Discrete Sizing Variables. , 2004, , 1.		3
172	Response to "Comments on "Energy demand estimation of South Korea using artificial neural network" by Zong Woo Geem and William E. Roper" by Serhat Kucukali. Energy Policy, 2010, 38, 6381-6382.	4.2	3
173	Optimal Project Planning for Public Rental Housing in South Korea. Sustainability, 2020, 12, 600.	1.6	3
174	Empirical Convergence Theory of Harmony Search Algorithm for Box-Constrained Discrete Optimization of Convex Function. Mathematics, 2021, 9, 545.	1.1	3
175	Optimum Design of Reinforced Concrete Folded Plate Structures to ACI 318-11 Using Soft Computing Algorithm. Mathematics, 2022, 10, 1668.	1.1	3
176	Case study of renewable-only smart grid system for a Korean island. , 2014, , .		2
177	Metaheuristic Optimization in Structural Engineering. Modeling and Optimization in Science and Technologies, 2016, , 75-93.	0.7	2
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