

Zong Woo Geem

List of Publications by Citations

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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.

186
papers

11,730
citations

39
h-index

107
g-index

199
ext. papers

13,937
ext. citations

2.9
avg, IF

7.14
L-index

#	Paper	IF	Citations
186	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	5.7	1216
185	A new structural optimization method based on the harmony search algorithm. <i>Computers and Structures</i> , 2004 , 82, 781-798	4.5	779
184	Optimal cost design of water distribution networks using harmony search. <i>Engineering Optimization</i> , 2006 , 38, 259-277	2	440
183	The harmony search heuristic algorithm for discrete structural optimization. <i>Engineering Optimization</i> , 2005 , 37, 663-684	2	283
182	PARAMETER ESTIMATION OF THE NONLINEAR MUSKINGUM MODEL USING HARMONY SEARCH1. <i>Journal of the American Water Resources Association</i> , 2001 , 37, 1131-1138	2.1	281
181	A survey on applications of the harmony search algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 1818-1831	7.2	263
180	Harmony Search Optimization: Application to Pipe Network Design. <i>International Journal of Modelling and Simulation</i> , 2002 , 22, 125-133	1.5	240
179	Novel derivative of harmony search algorithm for discrete design variables. <i>Applied Mathematics and Computation</i> , 2008 , 199, 223-230	2.7	220
178	Application of Harmony Search to Vehicle Routing. <i>American Journal of Applied Sciences</i> , 2005 , 2, 1552-1557	1.5	201
177	Design of low-emission and energy-efficient residential buildings using a multi-objective optimization algorithm. <i>Building and Environment</i> , 2012 , 49, 245-250	6.5	197
176	Particle-swarm harmony search for water network design. <i>Engineering Optimization</i> , 2009 , 41, 297-311	2	187
175	Parameter-setting-free harmony search algorithm. <i>Applied Mathematics and Computation</i> , 2010 , 217, 3881-3889	2.7	167
174	A Critical Review of Robustness in Power Grids Using Complex Networks Concepts. <i>Energies</i> , 2015 , 8, 9211-9265	3.1	142
173	Energy demand estimation of South Korea using artificial neural network. <i>Energy Policy</i> , 2009 , 37, 4049-4054	4.5	129
172	Parameter Estimation for the Nonlinear Muskingum Model Using the BFGS Technique. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2006 , 132, 474-478	1.1	121
171	Reptile Search Algorithm (RSA): A nature-inspired meta-heuristic optimizer. <i>Expert Systems With Applications</i> , 2021 , 116158	7.8	120
170	Harmony Search for Generalized Orienteering Problem: Best Touring in China. <i>Lecture Notes in Computer Science</i> , 2005 , 741-750	0.9	107

169	Metaheuristics in structural optimization and discussions on harmony search algorithm. <i>Swarm and Evolutionary Computation</i> , 2016 , 28, 88-97	9.8	103
168	Size optimization for a hybrid photovoltaicWind energy system. <i>International Journal of Electrical Power and Energy Systems</i> , 2012 , 42, 448-451	5.1	96
167	Parameter Estimation of the Nonlinear Muskingum Flood-Routing Model Using a Hybrid Harmony Search Algorithm. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013 , 18, 352-360	1.8	94
166	Parameter Estimation of the Nonlinear Muskingum Model Using Parameter-Setting-Free Harmony Search. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011 , 16, 684-688	1.8	81
165	Optimal Scheduling of Multiple Dam System Using Harmony Search Algorithm 2007 , 316-323		77
164	Efficient Pneumonia Detection in Chest Xray Images Using Deep Transfer Learning. <i>Diagnostics</i> , 2020 , 10,	3.8	73
163	Multiobjective Optimization of Time-Cost Trade-Off Using Harmony Search. <i>Journal of Construction Engineering and Management - ASCE</i> , 2010 , 136, 711-716	4.2	72
162	Large-scale combined heat and power economic dispatch using a novel multi-player harmony search method. <i>Applied Thermal Engineering</i> , 2019 , 154, 493-504	5.8	67
161	A Coral Reefs Optimization algorithm with Harmony Search operators for accurate wind speed prediction. <i>Renewable Energy</i> , 2015 , 75, 93-101	8.1	64
160	Harmony Search Algorithm for Solving Sudoku 2007 , 371-378		63
159	Harmony search optimization of renewable energy charging with energy storage system. <i>International Journal of Electrical Power and Energy Systems</i> , 2017 , 86, 120-126	5.1	54
158	A Comprehensive Survey of the Harmony Search Algorithm in Clustering Applications. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3827	2.6	52
157	Harmony search optimisation to the pump-included water distribution network design. <i>Civil Engineering and Environmental Systems</i> , 2009 , 26, 211-221	2.1	50
156	Review of harmony search with respect to algorithm structure. <i>Swarm and Evolutionary Computation</i> , 2019 , 48, 31-43	9.8	48
155	Mathematical and Metaheuristic Applications in Design Optimization of Steel Frame Structures: An Extensive Review. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-33	1.1	48
154	Harmony Search in Water Pump Switching Problem. <i>Lecture Notes in Computer Science</i> , 2005 , 751-760	0.9	48
153	Improved Binary Sailfish Optimizer Based on Adaptive Hill Climbing for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 83548-83560	3.5	43
152	Optimal Design of Water Distribution Networks Using Parameter-Setting-Free Harmony Search for Two Major Parameters. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2011 , 137, 377-380	2.8	43

151	Determination of viscoelastic and damage properties of hot mix asphalt concrete using a harmony search algorithm. <i>Mechanics of Materials</i> , 2009 , 41, 339-353	3.3	41
150	Improved Harmony Search from Ensemble of Music Players. <i>Lecture Notes in Computer Science</i> , 2006 , 86-93	0.9	41
149	State-of-the-Art in the Structure of Harmony Search Algorithm. <i>Studies in Computational Intelligence</i> , 2010 , 1-10	0.8	41
148	Prioritizing and Analyzing the Role of Climate and Urban Parameters in the Confirmed Cases of COVID-19 Based on Artificial Intelligence Applications. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	37
147	Handling non-convex heat-power feasible region in combined heat and power economic dispatch. <i>International Journal of Electrical Power and Energy Systems</i> , 2012 , 34, 171-173	5.1	37
146	Transport energy demand modeling of South Korea using artificial neural network. <i>Energy Policy</i> , 2011 , 39, 4644-4650	7.2	37
145	Determination of Optimal Initial Weights of an Artificial Neural Network by Using the Harmony Search Algorithm: Application to Breakwater Armor Stones. <i>Applied Sciences (Switzerland)</i> , 2016 , 6, 164	2.6	36
144	Optimum Design of PID Controlled Active Tuned Mass Damper via Modified Harmony Search. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2976	2.6	35
143	Music Composition Using Harmony Search Algorithm 2007 , 593-600		34
142	An Optimized Protection Coordination Scheme for the Optimal Coordination of Overcurrent Relays Using a Nature-Inspired Root Tree Algorithm. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1664	2.6	34
141	Investigations of Object Detection in Images/Videos Using Various Deep Learning Techniques and Embedded Platforms: A Comprehensive Review. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3280	2.6	33
140	Vanishing point detection for self-driving car using harmony search algorithm. <i>Swarm and Evolutionary Computation</i> , 2018 , 41, 111-119	9.8	33
139	Late Acceptance Hill Climbing Based Social Ski Driver Algorithm for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 75393-75408	3.5	30
138	An analysis of selection methods in memory consideration for harmony search. <i>Applied Mathematics and Computation</i> , 2013 , 219, 10753-10767	2.7	30
137	Solution quality improvement in chiller loading optimization. <i>Applied Thermal Engineering</i> , 2011 , 31, 1848-1851	3.85	30
136	Mayfly in Harmony: A New Hybrid Meta-Heuristic Feature Selection Algorithm. <i>IEEE Access</i> , 2020 , 8, 195929-195945	3.9	30
135	A new nonlinear Muskingum flood routing model incorporating lateral flow. <i>Engineering Optimization</i> , 2015 , 47, 737-749	2	28
134	Multiobjective Optimization of Water Distribution Networks Using Fuzzy Theory and Harmony Search. <i>Water (Switzerland)</i> , 2015 , 7, 3613-3625	3	28

133	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	2.9	28
132	A comparison study of harmony search and genetic algorithm for the max-cut problem. <i>Swarm and Evolutionary Computation</i> , 2019 , 44, 130-135	9.8	28
131	Overview of Harmony Search algorithm and its applications in Civil Engineering. <i>Evolutionary Intelligence</i> , 2014 , 7, 3-16	1.7	27
130	Hybrid of Harmony Search Algorithm and Ring Theory-Based Evolutionary Algorithm for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 102629-102645	3.5	25
129	Harmony Search Applications in Industry117-134		24
128	Binary Social Mimic Optimization Algorithm With X-Shaped Transfer Function for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 97890-97906	3.5	22
127	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	2.5	22
126	A novel harmony search based optimization of reinforced concrete biaxially loaded columns. <i>Structural Engineering and Mechanics</i> , 2015 , 54, 1097-1109		22
125	Feature Selection for Facial Emotion Recognition Using Cosine Similarity-Based Harmony Search Algorithm. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2816	2.6	21
124	Parameter Estimation for a Proton Exchange Membrane Fuel Cell Model Using GRG Technique. <i>Fuel Cells</i> , 2016 , 16, 640-645	2.9	20
123	COVID-19 Detection by Optimizing Deep Residual Features with Improved Clustering-Based Golden Ratio Optimizer. <i>Diagnostics</i> , 2021 , 11,	3.8	20
122	Optimal Design of Cantilever Soldier Pile Retaining Walls Embedded in Frictional Soils with Harmony Search Algorithm. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3232	2.6	19
121	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	2.6	19
120	Issues in optimal parameter estimation for the nonlinear Muskingum flood routing model. <i>Engineering Optimization</i> , 2014 , 46, 328-339	2	19
119	Adaptive Kalman Filter Based on Adjustable Sampling Interval in Burst Detection for Water Distribution System. <i>Water (Switzerland)</i> , 2016 , 8, 142	3	18
118	Effects of initial memory and identical harmony in global optimization using harmony search algorithm. <i>Applied Mathematics and Computation</i> , 2012 , 218, 11337-11343	2.7	16
117	Eco-Friendly Design of Reinforced Concrete Retaining Walls: Multi-objective Optimization with Harmony Search Applications. <i>Sustainability</i> , 2020 , 12, 6087	3.6	16
116	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	2	16

115	Parameter Optimization of Single-Diode Model of Photovoltaic Cell Using Memetic Algorithm. <i>International Journal of Photoenergy</i> , 2015 , 2015, 1-7	2.1	15
114	Strategic Market Growth and Policy Recommendations for Sustainable Solar Energy Deployment in South Korea. <i>Journal of Electrical Engineering and Technology</i> , 2020 , 15, 803-815	1.4	15
113	Sustainability and Optimization: From Conceptual Fundamentals to Applications. <i>Sustainability</i> , 2020 , 12, 2027	3.6	14
112	Harmony search for structural design 2005 ,		14
111	Harmony Search Algorithms for Water and Environmental Systems. <i>Studies in Computational Intelligence</i> , 2009 , 113-127	0.8	14
110	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	3.3	13
109	Improved Formulation for the Optimization of Wind Turbine Placement in a Wind Farm. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-5	1.1	13
108	Research Commentary. <i>International Journal of Applied Metaheuristic Computing</i> , 2010 , 1, 75-79	0.8	13
107	Pneumonia detection in chest X-ray images using an ensemble of deep learning models. <i>PLoS ONE</i> , 2021 , 16, e0256630	3.7	13
106	FashionFit: Analysis of Mapping 3D Pose and Neural Body Fit for Custom Virtual Try-On. <i>IEEE Access</i> , 2020 , 8, 91603-91615	3.5	12
105	Optimisation of Shear and Lateral-Torsional Buckling of Steel Plate Girders Using Meta-Heuristic Algorithms. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3639	2.6	12
104	A Memetic Approach for Improving Minimum Cost of Economic Load Dispatch Problems. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-11	1.1	12
103	Application of Computational Intelligence Techniques to an Environmental Flow Formula. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , 2018 , 18, 237-244	1.8	12
102	Generation of Synthetic Chest X-ray Images and Detection of COVID-19: A Deep Learning Based Approach. <i>Diagnostics</i> , 2021 , 11,	3.8	12
101	Optimal Design of a Residential Photovoltaic Renewable System in South Korea. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1138	2.6	11
100	EHHM: Electrical Harmony Based Hybrid Meta-Heuristic for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 158135-158141	3.5	11
99	. <i>IEEE Access</i> , 2020 , 8, 101293-101308	3.5	10
98	Economic Dispatch Using Parameter-Setting-Free Harmony Search. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-5	1.1	10

97	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	0.3	10
96	Trenchless Water Pipe Condition Assessment Using Artificial Neural Network 2007 , 1		10
95	Mooring Cost Optimization via Harmony Search 2007 , 355		10
94	Design of Rotor Blades for Vertical Axis Wind Turbine with Wind Flow Modifier for Low Wind Profile Areas. <i>Sustainability</i> , 2020 , 12, 8050	3.6	10
93	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	1.4	10
92	Adaptive-Hybrid Harmony Search Algorithm for Multi-Constrained Optimum Eco-Design of Reinforced Concrete Retaining Walls. <i>Sustainability</i> , 2021 , 13, 1639	3.6	10
91	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	2.6	8
90	A Novel Human Respiration Pattern Recognition Using Signals of Ultra-Wideband Radar Sensor. <i>Sensors</i> , 2019 , 19,	3.8	8
89	An island grouping genetic algorithm for fuzzy partitioning problems. <i>Scientific World Journal, The</i> , 2014 , 2014, 916371	2.2	8
88	Wastewater Treatment Optimization for Fish Migration Using Harmony Search. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-5	1.1	8
87	CO2 and Cost Optimization of Reinforced Concrete Cantilever Soldier Piles: A Parametric Study with Harmony Search Algorithm. <i>Sustainability</i> , 2020 , 12, 5906	3.6	8
86	Optimized Energy Cost and Carbon Emission-Aware Virtual Machine Allocation in Sustainable Data Centers. <i>Sustainability</i> , 2020 , 12, 6383	3.6	8
85	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	2.3	8
84	Harmony Search Optimisation of Dispersed Laminated Composite Plates. <i>Materials</i> , 2020 , 13,	3.5	7
83	Generalised Adaptive Harmony Search: A Comparative Analysis of Modern Harmony Search. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-13	1.1	7
82	Discussion on Combined heat and power economic dispatch by harmony search algorithm by A. Vasebi et al., <i>International Journal of Electrical Power and Energy Systems</i> 29 (2007) 713-719. <i>International Journal of Electrical Power and Energy Systems</i> , 2011 , 33, 1348	5.1	7
81	Various continuous harmony search algorithms for web-based hydrologic parameter optimisation. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2010 , 1, 213	0.3	7
80	Bond Strength Assessment of Concrete-Corroded Rebar Interface Using Artificial Neural Network. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4724	2.6	7

79	Feature Selection for Colon Cancer Detection Using K-Means Clustering and Modified Harmony Search Algorithm. <i>Mathematics</i> , 2021 , 9, 570	2.3	7
78	Performance of Optimum Tuned PID Controller with Different Feedback Strategies on Active-Controlled Structures. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1682	2.6	7
77	Improved Optimization for Wastewater Treatment and Reuse System Using Computational Intelligence. <i>Complexity</i> , 2018 , 2018, 1-8	1.6	7
76	Comparative Study of Harmony Search Algorithm and its Applications in China, Japan and Korea. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3970	2.6	6
75	Harmony Search and Nature-Inspired Algorithms for Engineering Optimization. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-2	1.1	6
74	Window-Based Decision Support System for the Water Pipe Condition Assessment Using Artificial Neural Network 2003 ,		6
73	Optimal Design of Fuzzy Systems Using Differential Evolution and Harmony Search Algorithms with Dynamic Parameter Adaptation. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6146	2.6	6
72	Total Potential Optimization Using Metaheuristic Algorithms for Solving Nonlinear Plane Strain Systems. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3220	2.6	6
71	Optimal Energy Mix with Renewable Portfolio Standards in Korea. <i>Sustainability</i> , 2016 , 8, 423	3.6	6
70	. <i>IEEE Access</i> , 2020 , 8, 81425-81446	3.5	5
69	Religion and Depression in South Korea: A Comparison between Buddhism, Protestantism, and Roman Catholicism. <i>Religions</i> , 2018 , 9, 3	0.6	5
68	Economic Dispatch Optimization of Multi-Water Resources: A Case Study of an Island in South Korea. <i>Sustainability</i> , 2019 , 11, 5964	3.6	5
67	Hydraulic Analysis of Water Distribution Network Using Harmony Search 2009 ,		5
66	Application of Harmony Search Algorithm to Slope Stability Analysis. <i>Land</i> , 2021 , 10, 1250	3.5	5
65	Genetic Algorithm-based Optimal Investment Scheduling for Public Rental Housing Projects in South Korea. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , 2018 , 18, 135-145	1.8	5
64	Hyperparameter Optimization Method Based on Harmony Search Algorithm to Improve Performance of 1D CNN Human Respiration Pattern Recognition System. <i>Sensors</i> , 2020 , 20,	3.8	5
63	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	3	5
62	LARNet: Real-Time Detection of Facial Micro Expression Using Lossless Attention Residual Network. <i>Sensors</i> , 2021 , 21,	3.8	5

61	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	2.6	5
60	Can Music Supplant Math in Environmental Planning?. <i>Leonardo</i> , 2015 , 48, 147-150	0.1	4
59	Advanced Parameter-Setting-Free Harmony Search Algorithm. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2586	2.6	4
58	Parameters Optimization of Taguchi Method Integrated Hybrid Harmony Search Algorithm for Engineering Design Problems. <i>Mathematics</i> , 2022 , 10, 327	2.3	4
57	CO2 Emission Optimization of Concrete-Filled Steel Tubular Rectangular Stub Columns Using Metaheuristic Algorithms. <i>Sustainability</i> , 2021 , 13, 10981	3.6	4
56	Metaheuristic Optimization of Laminated Composite Plates with Cut-Outs. <i>Coatings</i> , 2021 , 11, 1235	2.9	4
55	Harmony Search-Based Approach for Multi-Objective Software Architecture Reconstruction. <i>Mathematics</i> , 2020 , 8, 1906	2.3	4
54	Harmony Search Optimization of Nozzle Movement for Additive Manufacturing of Concrete Structures and Concrete Elements. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4413	2.6	4
53	Prediction of suicide among 372,813 individuals under medical check-up. <i>Journal of Psychiatric Research</i> , 2020 , 131, 9-14	5.2	4
52	Cost-Optimized FPSO Mooring Design Via Harmony Search. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2016 , 138,	1.5	4
51	CityGML-Based Road Information Model for Route Optimization of Snow-Removal Vehicle. <i>ISPRS International Journal of Geo-Information</i> , 2019 , 8, 588	2.9	4
50	Influence of Building Information Modeling (BIM) Implementation in High-Rise Buildings towards Sustainability. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7626	2.6	4
49	Optimum Design of Cylindrical Walls Using Ensemble Learning Methods. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2165	2.6	4
48	Adaptive Harmony Search for Tuned Liquid Damper Optimization under Seismic Excitation. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2645	2.6	4
47	A Novel Protection Scheme for Solar Photovoltaic Generator Connected Networks Using Hybrid Harmony Search Algorithm-Bollinger Bands Approach. <i>Energies</i> , 2020 , 13, 2439	3.1	3
46	Optimal Project Planning for Public Rental Housing in South Korea. <i>Sustainability</i> , 2020 , 12, 600	3.6	3
45	Artificial Satellite Heat Pipe Design Using Harmony Search. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 423-433	0.4	3
44	Sustainable Building Design: A Review on Recent Metaheuristic Methods. <i>Studies in Computational Intelligence</i> , 2015 , 203-223	0.8	3

43	Global Optimization Using Harmony Search: Theoretical Foundations and Applications. <i>Studies in Computational Intelligence</i> , 2009 , 57-73	0.8	3
42	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. <i>Energy Policy</i> , 2010 , 38, 6381-6382	7.2	3
41	Harmony Search Algorithm and Fuzzy Logic Theory: An Extensive Review from Theory to Applications. <i>Mathematics</i> , 2021 , 9, 2665	2.3	3
40	A New Method for Analyzing the Performance of the Harmony Search Algorithm. <i>Mathematics</i> , 2020 , 8, 1421	2.3	3
39	Sustainable Optimization for Wastewater Treatment System Using PSF-HS. <i>Sustainability</i> , 2016 , 8, 321	3.6	3
38	Deep neural network applied to joint shear strength for exterior RC beam-column joints affected by cyclic loadings. <i>Structures</i> , 2021 , 33, 1819-1832	3.4	3
37	Optimal Placement of Renewable Energy Generators Using Grid-Oriented Genetic Algorithm for Loss Reduction and Flexibility Improvement. <i>Energies</i> , 2022 , 15, 1863	3.1	3
36	Artificial Intelligence: An Energy Efficiency Tool for Enhanced High performance computing. <i>Symmetry</i> , 2020 , 12, 1029	2.7	2
35	Metaheuristic Optimization in Structural Engineering. <i>Modeling and Optimization in Science and Technologies</i> , 2016 , 75-93	0.6	2
34	Stochastic co-derivative of harmony search algorithm. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2011 , 2, 1	0.3	2
33	Re-Allocation of Distributed Generations Using Available Renewable Potential Based Multi-Criterion-Multi-Objective Hybrid Technique. <i>Sustainability</i> , 2021 , 13, 13709	3.6	2
32	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	2.3	2
31	Prediction of depression among medical check-ups of 433,190 patients: A nationwide population-based study. <i>Psychiatry Research</i> , 2020 , 293, 113474	9.9	2
30	Empirical Convergence Theory of Harmony Search Algorithm for Box-Constrained Discrete Optimization of Convex Function. <i>Mathematics</i> , 2021 , 9, 545	2.3	2
29	Hough Transform-Based Angular Features for Learning-Free Handwritten Keyword Spotting. <i>Sensors</i> , 2021 , 21,	3.8	2
28	Harmony Search Algorithm for Structural Engineering Problems. <i>Springer Tracts in Nature-inspired Computing</i> , 2021 , 13-47	1.8	2
27	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,	4.6	2
26	DeepPlayer-Track: Player and Referee Tracking With Jersey Color Recognition in Soccer. <i>IEEE Access</i> , 2022 , 10, 32494-32509	3.5	2

25	Optimization of Tuned Liquid Damper Including Different Liquids for Lateral Displacement Control of Single and Multi-Story Structures. <i>Buildings</i> , 2022 , 12, 377	3.2	2
24	Modified Harmony Search Algorithm-Based Optimization for Eco-Friendly Reinforced Concrete Frames. <i>Sustainability</i> , 2022 , 14, 3361	3.6	2
23	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	1.7	2
22	Energy-Efficient Resource Provisioning Using Adaptive Harmony Search Algorithm for Compute-Intensive Workloads with Load Balancing in Datacenters. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2323	2.6	1
21	Case study of renewable-only smart grid system for a Korean island 2014 ,		1
20	In-Depth Investigation of Statistical and Physicochemical Properties on the Field Study of the Intermittent Filling of Large Water Tanks. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-9	1.1	1
19	Hybrid Heuristic Optimization Methods in Geotechnical Engineering 2013 , 205-229		1
18	The analysis of free vibration of conservative oscillators with inertia and static type cubic non-linearities by variational-Padé technique. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2013 , 4, 103	0.3	1
17	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	7.3	1
16	Revisiting the performance of evolutionary algorithms. <i>Expert Systems With Applications</i> , 2021 , 175, 114819	4.19	1
15	Interpretable Machine Learning Algorithms to Predict the Axial Capacity of FRP-Reinforced Concrete Columns. <i>Materials</i> , 2022 , 15,	3.5	1
14	A New Structural Optimization Method for Structures with Discrete Sizing Variables 2004 , 1		0
13	SinLU: Sinu-Sigmoidal Linear Unit. <i>Mathematics</i> , 2022 , 10, 337	2.3	0
12	Investigation of Forecast Accuracy and its Impact on the Efficiency of Data-Driven Forecast-Based Reservoir Operating Rules. <i>Water (Switzerland)</i> , 2021 , 13, 2737	3	0
11	Machine learning-based prediction of persistent oppositional defiant behavior for 5 years. <i>Nordic Journal of Psychiatry</i> , 2020 , 74, 505-510	2.3	0
10	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	3.1	0
9	A Comprehensive Review of Deep Learning Strategies in Retinal Disease Diagnosis Using Fundus Images. <i>IEEE Access</i> , 2022 , 1-1	3.5	0
8	Closure to Multiobjective Optimization of Time-Cost Trade-Off Using Harmony Search by Zong Woo Geem. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011 , 137, 630-631	4.2	

- 7 Closure to Parameter Estimation of the Nonlinear Muskingum Model Using Parameter-Setting-Free Harmony Search | By Zong Woo Geem. *Journal of Hydrologic Engineering - ASCE*, **2012**, 17, 1416-1417 1.8
- 6 The Development of a Suicidal Ideation Predictive Model for Community-Dwelling Elderly Aged >55 Years.. *Neuropsychiatric Disease and Treatment*, **2022**, 18, 163-172 3.1
- 5 Research Commentary Survival of the Fittest Algorithm or the Novelest Algorithm? 84-89
- 4 The Liturgical Usage of Translated Gregorian Chant in the Korean Catholic Church. *Religions*, **2021**, 12, 1033 0.6
- 3 Determining Viscoelastic and Damage Properties Based on Harmony Search Algorithm. *Studies in Computational Intelligence*, **2009**, 199-226 0.8
- 2 Valve Location Method for Evaluating Drain Efficiency in Water Transmission Pipelines. *Water (Switzerland)*, **2020**, 12, 2759 3
- 1 Optimum Design of Reinforced Concrete Folded Plate Structures to ACI 318-11 Using Soft Computing Algorithm. *Mathematics*, **2022**, 10, 1668 2.3