

Joong Hoon Kim

List of Publications by Year in descending order

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82
papers

7,130
citations

304743

22
h-index

82547

72
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90
all docs

90
docs citations

90
times ranked

4993
citing authors

#	ARTICLE	IF	CITATIONS
1	PARAMETER ESTIMATION OF THE NONLINEAR MUSKINGUM MODEL USING HARMONY SEARCH. Journal of the American Water Resources Association, 2001, 37, 1131-1138.	2.4	332
2	Water cycle algorithm for solving constrained multi-objective optimization problems. Applied Soft Computing Journal, 2015, 27, 279-298.	7.2	213
3	Water cycle algorithm with evaporation rate for solving constrained and unconstrained optimization problems. Applied Soft Computing Journal, 2015, 30, 58-71.	7.2	173
4	Battle of the Water Calibration Networks. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 523-532.	2.6	134
5	Water cycle, mine blast and improved mine blast algorithms for discrete sizing optimization of truss structures. Computers and Structures, 2015, 149, 1-16.	4.4	107
6	Water cycle algorithm for solving multi-objective optimization problems. Soft Computing, 2015, 19, 2587-2603.	3.6	99
7	Battle of the Water Networks II. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	2.6	92
8	Optimal Rehabilitation Model for Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 1994, 120, 674-692.	2.6	83
9	A cooperative particle swarm optimizer with stochastic movements for computationally expensive numerical optimization problems. Journal of Computational Science, 2016, 13, 68-82.	2.9	76
10	Water cycle algorithm: A detailed standard code. SoftwareX, 2016, 5, 37-43.	2.6	75
11	Gradient-based Water Cycle Algorithm with evaporation rate applied to chaos suppression. Applied Soft Computing Journal, 2017, 53, 420-440.	7.2	61
12	Harmony Search Algorithm: A Unique Music-inspired Algorithm. Procedia Engineering, 2016, 154, 1401-1405.	1.2	48
13	Approximate solving of nonlinear ordinary differential equations using least square weight function and metaheuristic algorithms. Engineering Applications of Artificial Intelligence, 2015, 40, 117-132.	8.1	40
14	Mine blast harmony search: A new hybrid optimization method for improving exploration and exploitation capabilities. Applied Soft Computing Journal, 2018, 68, 548-564.	7.2	39
15	A comprehensive review on water cycle algorithm and its applications. Neural Computing and Applications, 2020, 32, 17433-17488.	5.6	38
16	Improved mine blast algorithm for optimal cost design of water distribution systems. Engineering Optimization, 2015, 47, 1602-1618.	2.6	37
17	Overview of Harmony Search algorithm and its applications in Civil Engineering. Evolutionary Intelligence, 2014, 7, 3-16.	3.6	32
18	Development of a PDA model for water distribution systems using harmony search algorithm. KSCE Journal of Civil Engineering, 2010, 14, 613-625.	1.9	29

#	ARTICLE	IF	CITATIONS
19	Non-Dominated Sorting Harmony Search Differential Evolution (NS-HS-DE): A Hybrid Algorithm for Multi-Objective Design of Water Distribution Networks. <i>Water (Switzerland)</i> , 2017, 9, 587.	2.7	26
20	Metaheuristic algorithms for approximate solution to ordinary differential equations of longitudinal fins having various profiles. <i>Applied Soft Computing Journal</i> , 2015, 33, 360-379.	7.2	23
21	Optimal design of water supply networks for enhancing seismic reliability. <i>Reliability Engineering and System Safety</i> , 2016, 146, 79-88.	8.9	23
22	Optimization of Upstream Detention Reservoir Facilities for Downstream Flood Mitigation in Urban Areas. <i>Water (Switzerland)</i> , 2016, 8, 290.	2.7	22
23	Self-adaptive multi-objective harmony search for optimal design of water distribution networks. <i>Engineering Optimization</i> , 2017, 49, 1957-1977.	2.6	22
24	Multiobjective Automatic Parameter Calibration of a Hydrological Model. <i>Water (Switzerland)</i> , 2017, 9, 187.	2.7	18
25	Seismic-Reliability-Based Optimal Layout of a Water Distribution Network. <i>Water (Switzerland)</i> , 2016, 8, 50.	2.7	16
26	Optimal cost design of water distribution networks using a decomposition approach. <i>Engineering Optimization</i> , 2016, 48, 2141-2156.	2.6	14
27	Optimizing Re-Chlorination Injection Points for Water Supply Networks Using Harmony Search Algorithm. <i>Water (Switzerland)</i> , 2018, 10, 547.	2.7	14
28	Improving the Quality of Pareto Optimal Solutions in Water Distribution Network Design. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017, 143, 04017036.	2.6	11
29	Long-term versus Real-time Optimal Operation for Gate Regulation during Flood in Urban Drainage Systems. <i>Urban Water Journal</i> , 2018, 15, 750-759.	2.1	10
30	Investigation of Rainfall Forecast System Characteristics in Real-Time Optimal Operation of Urban Drainage Systems. <i>Water Resources Management</i> , 2020, 34, 1773-1787.	3.9	10
31	Seismic Reliability-Based Multiobjective Design of Water Distribution System: Sensitivity Analysis. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017, 143, .	2.6	9
32	Application of life cycle energy analysis for designing a water distribution network. <i>International Journal of Life Cycle Assessment</i> , 2018, 23, 1174-1191.	4.7	9
33	Development of a Hybrid Harmony Search for Water Distribution System Design. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 1506-1514.	1.9	9
34	Development of Multi-Objective Optimal Redundant Design Approach for Multiple Pipe Failure in Water Distribution System. <i>Water (Switzerland)</i> , 2019, 11, 553.	2.7	9
35	Improvement of Cyber-Attack Detection Accuracy from Urban Water Systems Using Extreme Learning Machine. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8179.	2.5	9
36	Robust Urban Drainage System: Development of a Novel Multiscenario-Based Design Approach. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019, 145, 04019027.	2.6	7

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37	Smallest-Small-World Cellular Harmony Search for Optimization of Unconstrained Benchmark Problems. Journal of Applied Mathematics, 2013, 2013, 1-9.	0.9	6
38	Optimal Pipe Size Design for Looped Irrigation Water Supply System Using Harmony Search: Saemangeum Project Area. Scientific World Journal, The, 2015, 2015, 1-10.	2.1	6
39	Optimal Layout and Pipe Sizing of Urban Drainage Networks to Improve Robustness and Rapidity. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	2.6	6
40	Linear System Theory-Based Optimization of Detention Basin's Location and Size at Watershed Scale. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	1.9	5
41	Performance Measures of Metaheuristic Algorithms. Advances in Intelligent Systems and Computing, 2016, , 11-17.	0.6	5
42	Investigating the Convergence Characteristics of Harmony Search. Advances in Intelligent Systems and Computing, 2016, , 3-10.	0.6	5
43	Exploring the Efficiency of Harmony Search Algorithm for Hydropower Operation of Multi-reservoir Systems: A Hybrid Cellular Automata-Harmony Search Approach. Advances in Intelligent Systems and Computing, 2017, , 252-260.	0.6	5
44	Application of a Meta-heuristic Optimization Algorithm Motivated by a Vision Correction Procedure for Civil Engineering Problems. KSCE Journal of Civil Engineering, 2018, 22, 2623-2636.	1.9	5
45	Performance comparison of metaheuristic algorithms using a modified Gaussian fitness landscape generator. Soft Computing, 2020, 24, 7383-7393.	3.6	5
46	Development of a Multiscenario Planning Approach for Urban Drainage Systems. Applied Sciences (Switzerland), 2020, 10, 1834.	2.5	5
47	Decentralization-based optimization of detention reservoir systems for flood reduction in urban drainage areas. Urban Water Journal, 2018, 15, 445-452.	2.1	4
48	Performance Comparison of Metaheuristic Optimization Algorithms Using Water Distribution System Design Benchmarks. Advances in Intelligent Systems and Computing, 2019, , 97-104.	0.6	4
49	Topological and mechanical redundancy-based optimal design of water distribution systems in many-objective optimization. Engineering Optimization, 2020, 52, 1974-1991.	2.6	4
50	Calibration of C-Town Network Using Harmony Search Algorithm. , 2011, , .		3
51	Development and Application of Leakage Detection Model for Water Distribution Networks considering Uncertainty Analysis. Korean Society of Hazard Mitigation, 2014, 14, 177-185.	0.2	3
52	Optimal Leakage Detection Model of Water Distribution Systems Using Semi-Pressure Driven Analysis and Harmony Search. Korean Society of Hazard Mitigation, 2012, 12, 23-31.	0.2	3
53	Development of Optimal Pipe Size Design Tool for Irrigation Systems and its Application to Saemangeum Reclamation Area. Irrigation and Drainage, 2016, 65, 58-68.	1.7	2
54	Mine Blast Harmony Search and Its Applications. Advances in Intelligent Systems and Computing, 2016, , 155-168.	0.6	2

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55	Development of warm initial solution approaches to improve the quality of Pareto optimal solutions in water distribution network design. , 2017, , .		2
56	Engineering benchmark generation and performance measurement of evolutionary algorithms. , 2017, , .		2
57	Generation of Benchmark Problems for Optimal Design of Water Distribution Systems. Water (Switzerland), 2019, 11, 1637.	2.7	2
58	Copycat Harmony Search: Considering Poor Music Player's Followship Toward Good Player. Advances in Intelligent Systems and Computing, 2019, , 113-118.	0.6	2
59	Comparison of Parameter-Setting-Free and Self-adaptive Harmony Search. Advances in Intelligent Systems and Computing, 2019, , 105-112.	0.6	2
60	A New Parallelization Scheme for Harmony Search Algorithm. Advances in Intelligent Systems and Computing, 2016, , 147-152.	0.6	2
61	Sensitivity Analysis on Migration Parameters of Parallel Harmony Search. Advances in Intelligent Systems and Computing, 2017, , 3-7.	0.6	2
62	Optimal Sewer Network Design Considering Resilience: Resulting Design Comparison for Different Level of Failure Depth. Korean Society of Hazard Mitigation, 2018, 18, 95-106.	0.2	2
63	CACAIE: The best compendium for nature-inspired algorithms and their applications in civil engineering. Computer-Aided Civil and Infrastructure Engineering, 2021, 36, 1483-1484.	9.8	2
64	Harmony Search Algorithms for Optimizing Extreme Learning Machines. Advances in Intelligent Systems and Computing, 2021, , 11-20.	0.6	2
65	Development of Practical Design Approaches for Water Distribution Systems. Applied Sciences (Switzerland), 2019, 9, 5117.	2.5	1
66	Application of Self-adaptive Method in Multi-objective Harmony Search Algorithm. Advances in Intelligent Systems and Computing, 2017, , 15-21.	0.6	1
67	The Extraordinary Particle Swarm Optimization and Its Application in Constrained Engineering Problems. Advances in Intelligent Systems and Computing, 2017, , 35-41.	0.6	1
68	Improvement of GR4J Model Applying Soil Moisture Accounting Process and Its Application in Korea Basin. Korean Society of Hazard Mitigation, 2012, 12, 255-262.	0.2	1
69	Development and Applications of Multi-layered Harmony Search Algorithm for Improving Optimization Efficiency. Journal of the Korea Academia-Industrial Cooperation Society, 2016, 17, 1-12.	0.1	1
70	Multi-layered Harmony Search Algorithm: Introduction of a Novel and Efficient Structure. Advances in Intelligent Systems and Computing, 2017, , 8-14.	0.6	1
71	Optimization of Hydropower Storage Projects Using Harmony Search Algorithm. Advances in Intelligent Systems and Computing, 2017, , 261-270.	0.6	1
72	Multi-objective Optimization of the Reinforced Concrete Beam. Advances in Intelligent Systems and Computing, 2021, , 171-178.	0.6	1

#	ARTICLE	IF	CITATIONS
73	Approximate solutions of heat transfer fins with convex and exponential profiles using fourier-based optimization method. , 2016, , .		0
74	KU Battle of Metaheuristic Optimization Algorithms 2: Performance Test. Advances in Intelligent Systems and Computing, 2016, , 207-213.	0.6	0
75	Multiobjective Parameter Calibration of a Hydrological Model Using Harmony Search Algorithm. Advances in Intelligent Systems and Computing, 2020, , 76-81.	0.6	0
76	Performance Quantification of Search Operators in Hybrid Harmony Search Algorithms. Advances in Intelligent Systems and Computing, 2021, , 1-9.	0.6	0
77	Memetic computing for imprecise solution of T-shaped heat transfer fins. Engineering Optimization, 2021, 53, 1504-1522.	2.6	0
78	Development of Inter-ethnic Harmony Search Algorithm Based on Inter-ethnic Reconciliation. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 1-9.	0.7	0
79	Efficiency Evaluation of Harmony Search Algorithm according to Constraint Handling Techniques : Application to Optimal Pipe Size Design Problem. Journal of the Korea Academia-Industrial Cooperation Society, 2015, 16, 4999-5008.	0.1	0
80	A Comparative Study of Exploration Ability of Harmony Search Algorithms. Advances in Intelligent Systems and Computing, 2017, , 22-31.	0.6	0
81	Freestyle Rap Harmony Search (FRHS) for Engineering Problem Optimization. Advances in Intelligent Systems and Computing, 2021, , 21-31.	0.6	0
82	Development of a Cyberattack Detection Model for a Water Distribution System using Water Quality and Hydraulic Criteria. Korean Society of Hazard Mitigation, 2020, 20, 47-56.	0.2	0