

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
g-index

90
all docs

90
docs citations

90
times ranked

4993
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Quantification of Search Operators in Hybrid Harmony Search Algorithms. Advances in Intelligent Systems and Computing, 2021, , 1-9.	0.6	0
2	Memetic computing for imprecise solution of T-shaped heat transfer fins. Engineering Optimization, 2021, 53, 1504-1522.	2.6	0
3	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
4	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
5	CACAIE: The best compendium for natureâ€inspired algorithms and their applications in civil engineering. Computer-Aided Civil and Infrastructure Engineering, 2021, 36, 1483-1484.	9.8	2
6	Multi-objective Optimization of the Reinforced Concrete Beam. Advances in Intelligent Systems and Computing, 2021, , 171-178.	0.6	1
7	Harmony Search Algorithms for Optimizing Extreme Learning Machines. Advances in Intelligent Systems and Computing, 2021, , 11-20.	0.6	2
8	Freestyle Rap Harmony Search (FRHS) for Engineering Problem Optimization. Advances in Intelligent Systems and Computing, 2021, , 21-31.	0.6	0
9	Multiobjective Parameter Calibration of a Hydrological Model Using Harmony Search Algorithm. Advances in Intelligent Systems and Computing, 2020, , 76-81.	0.6	0
10	Performance comparison of metaheuristic algorithms using a modified Gaussian fitness landscape generator. Soft Computing, 2020, 24, 7383-7393.	3.6	5
11	Topological and mechanical redundancy-based optimal design of water distribution systems in many-objective optimization. Engineering Optimization, 2020, 52, 1974-1991.	2.6	4
12	Improvement of Cyber-Attack Detection Accuracy from Urban Water Systems Using Extreme Learning Machine. Applied Sciences (Switzerland), 2020, 10, 8179.	2.5	9
13	A comprehensive review on water cycle algorithm and its applications. Neural Computing and Applications, 2020, 32, 17433-17488.	5.6	38
14	Development of a Multiscenario Planning Approach for Urban Drainage Systems. Applied Sciences (Switzerland), 2020, 10, 1834.	2.5	5
15	Investigation of Rainfall Forecast System Characteristics in Real-Time Optimal Operation of Urban Drainage Systems. Water Resources Management, 2020, 34, 1773-1787.	3.9	10
16	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
17	Performance Comparison of Metaheuristic Optimization Algorithms Using Water Distribution System Design Benchmarks. Advances in Intelligent Systems and Computing, 2019, , 97-104.	0.6	4
18	Generation of Benchmark Problems for Optimal Design of Water Distribution Systems. Water (Switzerland), 2019, 11, 1637.	2.7	2

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19	Robust Urban Drainage System: Development of a Novel Multiscenario-Based Design Approach. Journal of Water Resources Planning and Management - ASCE, 2019, 145, 04019027.	2.6	7
20	Development of Multi-Objective Optimal Redundant Design Approach for Multiple Pipe Failure in Water Distribution System. Water (Switzerland), 2019, 11, 553.	2.7	9
21	Development of Practical Design Approaches for Water Distribution Systems. Applied Sciences (Switzerland), 2019, 9, 5117.	2.5	1
22	Copycat Harmony Search: Considering Poor Music Player's Followship Toward Good Player. Advances in Intelligent Systems and Computing, 2019, , 113-118.	0.6	2
23	Comparison of Parameter-Setting-Free and Self-adaptive Harmony Search. Advances in Intelligent Systems and Computing, 2019, , 105-112.	0.6	2
24	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
25	Application of life cycle energy analysis for designing a water distribution network. International Journal of Life Cycle Assessment, 2018, 23, 1174-1191.	4.7	9
26	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
27	Development of a Hybrid Harmony Search for Water Distribution System Design. KSCE Journal of Civil Engineering, 2018, 22, 1506-1514.	1.9	9
28	Long-term versus Real-time Optimal Operation for Gate Regulation during Flood in Urban Drainage Systems. Urban Water Journal, 2018, 15, 750-759.	2.1	10
29	Decentralization-based optimization of detention reservoir systems for flood reduction in urban drainage areas. Urban Water Journal, 2018, 15, 445-452.	2.1	4
30	Optimizing Re-Chlorination Injection Points for Water Supply Networks Using Harmony Search Algorithm. Water (Switzerland), 2018, 10, 547.	2.7	14
31	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
32	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
33	Self-adaptive multi-objective harmony search for optimal design of water distribution networks. Engineering Optimization, 2017, 49, 1957-1977.	2.6	22
34	Development of warm initial solution approaches to improve the quality of Pareto optimal solutions in water distribution network design. , 2017, , .		2
35	Improving the Quality of Pareto Optimal Solutions in Water Distribution Network Design. Journal of Water Resources Planning and Management - ASCE, 2017, 143, 04017036.	2.6	11
36	Gradient-based Water Cycle Algorithm with evaporation rate applied to chaos suppression. Applied Soft Computing Journal, 2017, 53, 420-440.	7.2	61

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37	Engineering benchmark generation and performance measurement of evolutionary algorithms. , 2017, , .		2
38	Seismic Reliability-Based Multiobjective Design of Water Distribution System: Sensitivity Analysis. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	2.6	9
39	Multiobjective Automatic Parameter Calibration of a Hydrological Model. Water (Switzerland), 2017, 9, 187.	2.7	18
40	Non-Dominated Sorting Harmony Search Differential Evolution (NS-HS-DE): A Hybrid Algorithm for Multi-Objective Design of Water Distribution Networks. Water (Switzerland), 2017, 9, 587.	2.7	26
41	Sensitivity Analysis on Migration Parameters of Parallel Harmony Search. Advances in Intelligent Systems and Computing, 2017, , 3-7.	0.6	2
42	Application of Self-adaptive Method in Multi-objective Harmony Search Algorithm. Advances in Intelligent Systems and Computing, 2017, , 15-21.	0.6	1
43	The Extraordinary Particle Swarm Optimization and Its Application in Constrained Engineering Problems. Advances in Intelligent Systems and Computing, 2017, , 35-41.	0.6	1
44	Multi-layered Harmony Search Algorithm: Introduction of a Novel and Efficient Structure. Advances in Intelligent Systems and Computing, 2017, , 8-14.	0.6	1
45	Optimization of Hydropower Storage Projects Using Harmony Search Algorithm. Advances in Intelligent Systems and Computing, 2017, , 261-270.	0.6	1
46	A Comparative Study of Exploration Ability of Harmony Search Algorithms. Advances in Intelligent Systems and Computing, 2017, , 22-31.	0.6	0
47	Seismic-Reliability-Based Optimal Layout of a Water Distribution Network. Water (Switzerland), 2016, 8, 50.	2.7	16
48	Optimization of Upstream Detention Reservoir Facilities for Downstream Flood Mitigation in Urban Areas. Water (Switzerland), 2016, 8, 290.	2.7	22
49	Water cycle algorithm: A detailed standard code. SoftwareX, 2016, 5, 37-43.	2.6	75
50	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
51	Approximate solutions of heat transfer fins with convex and exponential profiles using fourier-based optimization method. , 2016, , .		0
52	Optimal cost design of water distribution networks using a decomposition approach. Engineering Optimization, 2016, 48, 2141-2156.	2.6	14
53	Harmony Search Algorithm: A Unique Music-inspired Algorithm. Procedia Engineering, 2016, 154, 1401-1405.	1.2	48
54	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

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55	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
56	Optimal design of water supply networks for enhancing seismic reliability. Reliability Engineering and System Safety, 2016, 146, 79-88.	8.9	23
57	Mine Blast Harmony Search and Its Applications. Advances in Intelligent Systems and Computing, 2016, , 155-168.	0.6	2
58	KU Battle of Metaheuristic Optimization Algorithms 2: Performance Test. Advances in Intelligent Systems and Computing, 2016, , 207-213.	0.6	0
59	Performance Measures of Metaheuristic Algorithms. Advances in Intelligent Systems and Computing, 2016, , 11-17.	0.6	5
60	Investigating the Convergence Characteristics of Harmony Search. Advances in Intelligent Systems and Computing, 2016, , 3-10.	0.6	5
61	A New Parallelization Scheme for Harmony Search Algorithm. Advances in Intelligent Systems and Computing, 2016, , 147-152.	0.6	2
62	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
63	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
64	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
65	Water cycle algorithm with evaporation rate for solving constrained and unconstrained optimization problems. Applied Soft Computing Journal, 2015, 30, 58-71.	7.2	173
66	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
67	Improved mine blast algorithm for optimal cost design of water distribution systems. Engineering Optimization, 2015, 47, 1602-1618.	2.6	37
68	Metaheuristic algorithms for approximate solution to ordinary differential equations of longitudinal fins having various profiles. Applied Soft Computing Journal, 2015, 33, 360-379.	7.2	23
69	Water cycle algorithm for solving constrained multi-objective optimization problems. Applied Soft Computing Journal, 2015, 27, 279-298.	7.2	213
70	Water cycle algorithm for solving multi-objective optimization problems. Soft Computing, 2015, 19, 2587-2603.	3.6	99
71	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
72	Battle of the Water Networks II. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	2.6	92

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73	Overview of Harmony Search algorithm and its applications in Civil Engineering. Evolutionary Intelligence, 2014, 7, 3-16.	3.6	32
74	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
75	Smallest-Small-World Cellular Harmony Search for Optimization of Unconstrained Benchmark Problems. Journal of Applied Mathematics, 2013, 2013, 1-9.	0.9	6
76	Battle of the Water Calibration Networks. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 523-532.	2.6	134
77	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
78	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
79	Calibration of C-Town Network Using Harmony Search Algorithm. , 2011, , .		3
80	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
81	PARAMETER ESTIMATION OF THE NONLINEAR MUSKINGUM MODEL USING HARMONY SEARCH. Journal of the American Water Resources Association, 2001, 37, 1131-1138.	2.4	332
82	Optimal Rehabilitation Model for Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 1994, 120, 674-692.	2.6	83