

Zong Woo Geem

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.

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 | SinLU: Sinu-Sigmoidal Linear Unit. <i>Mathematics</i> , 2022 , 10, 337 | 2.3 | 0 |
| 185 | Parameters Optimization of Taguchi Method Integrated Hybrid Harmony Search Algorithm for Engineering Design Problems. <i>Mathematics</i> , 2022 , 10, 327 | 2.3 | 4 |
| 184 | The Development of a Suicidal Ideation Predictive Model for Community-Dwelling Elderly Aged >55 Years.. <i>Neuropsychiatric Disease and Treatment</i> , 2022 , 18, 163-172 | 3.1 | |
| 183 | DeepPlayer-Track: Player and Referee Tracking With Jersey Color Recognition in Soccer. <i>IEEE Access</i> , 2022 , 10, 32494-32509 | 3.5 | 2 |
| 182 | Optimum Design of Cylindrical Walls Using Ensemble Learning Methods. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2165 | 2.6 | 4 |
| 181 | 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 |
| 180 | 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 |
| 179 | Adaptive Harmony Search for Tuned Liquid Damper Optimization under Seismic Excitation. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2645 | 2.6 | 4 |
| 178 | Modified Harmony Search Algorithm-Based Optimization for Eco-Friendly Reinforced Concrete Frames. <i>Sustainability</i> , 2022 , 14, 3361 | 3.6 | 2 |
| 177 | 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 |
| 176 | Interpretable Machine Learning Algorithms to Predict the Axial Capacity of FRP-Reinforced Concrete Columns.. <i>Materials</i> , 2022 , 15, | 3.5 | 1 |
| 175 | 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 |
| 174 | Optimum Design of Reinforced Concrete Folded Plate Structures to ACI 318-11 Using Soft Computing Algorithm. <i>Mathematics</i> , 2022 , 10, 1668 | 2.3 | |
| 173 | A Comprehensive Review of Deep Learning Strategies in Retinal Disease Diagnosis Using Fundus Images. <i>IEEE Access</i> , 2022 , 1-1 | 3.5 | 0 |
| 172 | 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 |
| 171 | Reptile Search Algorithm (RSA): A nature-inspired meta-heuristic optimizer. <i>Expert Systems With Applications</i> , 2021 , 116158 | 7.8 | 120 |
| 170 | The Liturgical Usage of Translated Gregorian Chant in the Korean Catholic Church. <i>Religions</i> , 2021 , 12, 1033 | 0.6 | |

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| 169 | Application of Harmony Search Algorithm to Slope Stability Analysis. <i>Land</i> , 2021 , 10, 1250 | 3.5 | 5 |
| 168 | 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 |
| 167 | Harmony Search Algorithm and Fuzzy Logic Theory: An Extensive Review from Theory to Applications. <i>Mathematics</i> , 2021 , 9, 2665 | 2.3 | 3 |
| 166 | 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 |
| 165 | CO2 Emission Optimization of Concrete-Filled Steel Tubular Rectangular Stub Columns Using Metaheuristic Algorithms. <i>Sustainability</i> , 2021 , 13, 10981 | 3.6 | 4 |
| 164 | Metaheuristic Optimization of Laminated Composite Plates with Cut-Outs. <i>Coatings</i> , 2021 , 11, 1235 | 2.9 | 4 |
| 163 | Feature Selection for Colon Cancer Detection Using K-Means Clustering and Modified Harmony Search Algorithm. <i>Mathematics</i> , 2021 , 9, 570 | 2.3 | 7 |
| 162 | Empirical Convergence Theory of Harmony Search Algorithm for Box-Constrained Discrete Optimization of Convex Function. <i>Mathematics</i> , 2021 , 9, 545 | 2.3 | 2 |
| 161 | Total Potential Optimization Using Metaheuristic Algorithms for Solving Nonlinear Plane Strain Systems. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3220 | 2.6 | 6 |
| 160 | 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 |
| 159 | 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 |
| 158 | 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 |
| 157 | Hough Transform-Based Angular Features for Learning-Free Handwritten Keyword Spotting. <i>Sensors</i> , 2021 , 21, | 3.8 | 2 |
| 156 | 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 |
| 155 | Harmony Search Algorithm for Structural Engineering Problems. <i>Springer Tracts in Nature-inspired Computing</i> , 2021 , 13-47 | 1.8 | 2 |
| 154 | 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 |
| 153 | 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 |
| 152 | LARNet: Real-Time Detection of Facial Micro Expression Using Lossless Attention Residual Network. <i>Sensors</i> , 2021 , 21, | 3.8 | 5 |

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| 151 | 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 |
| 150 | COVID-19 Detection by Optimizing Deep Residual Features with Improved Clustering-Based Golden Ratio Optimizer. <i>Diagnostics</i> , 2021 , 11, | 3.8 | 20 |
| 149 | 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 |
| 148 | Influence of Building Information Modeling (BIM) Implementation in High-Rise Buildings towards Sustainability. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7626 | 2.6 | 4 |
| 147 | Revisiting the performance of evolutionary algorithms. <i>Expert Systems With Applications</i> , 2021 , 175, 114819 | 3.9 | 1 |
| 146 | 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 |
| 145 | Pneumonia detection in chest X-ray images using an ensemble of deep learning models. <i>PLoS ONE</i> , 2021 , 16, e0256630 | 3.7 | 13 |
| 144 | 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 |
| 143 | Late Acceptance Hill Climbing Based Social Ski Driver Algorithm for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 75393-75408 | 3.5 | 30 |
| 142 | . <i>IEEE Access</i> , 2020 , 8, 81425-81446 | 3.5 | 5 |
| 141 | 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 |
| 140 | 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 |
| 139 | Advanced Parameter-Setting-Free Harmony Search Algorithm. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2586 | 2.6 | 4 |
| 138 | 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 |
| 137 | Binary Social Mimic Optimization Algorithm With X-Shaped Transfer Function for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 97890-97906 | 3.5 | 22 |
| 136 | Investigations of Object Detection in Images/Videos Using Various Deep Learning Techniques and Embedded PlatformsA Comprehensive Review. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3280 | 2.6 | 33 |
| 135 | . <i>IEEE Access</i> , 2020 , 8, 101293-101308 | 3.5 | 10 |
| 134 | Efficient Pneumonia Detection in Chest Xray Images Using Deep Transfer Learning. <i>Diagnostics</i> , 2020 , 10, | 3.8 | 73 |

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| 133 | A Comprehensive Survey of the Harmony Search Algorithm in Clustering Applications. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3827 | 2.6 | 52 |
| 132 | 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 |
| 131 | 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 |
| 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 | Sustainability and Optimization: From Conceptual Fundamentals to Applications. <i>Sustainability</i> , 2020 , 12, 2027 | 3.6 | 14 |
| 128 | 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 |
| 127 | Artificial Intelligence: An Energy Efficiency Tool for Enhanced High performance computing. <i>Symmetry</i> , 2020 , 12, 1029 | 2.7 | 2 |
| 126 | Harmony Search Optimisation of Dispersed Laminated Composite Plates. <i>Materials</i> , 2020 , 13, | 3.5 | 7 |
| 125 | Optimal Project Planning for Public Rental Housing in South Korea. <i>Sustainability</i> , 2020 , 12, 600 | 3.6 | 3 |
| 124 | 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 |
| 123 | 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 |
| 122 | Feature Selection for Facial Emotion Recognition Using Cosine Similarity-Based Harmony Search Algorithm. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2816 | 2.6 | 21 |
| 121 | Optimum Design of PID Controlled Active Tuned Mass Damper via Modified Harmony Search. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2976 | 2.6 | 35 |
| 120 | Improved Binary Sailfish Optimizer Based on Adaptive Hill Climbing for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 83548-83560 | 3.5 | 43 |
| 119 | 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 |
| 118 | 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 |
| 117 | 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 |
| 116 | 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 |

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| 115 | 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 |
| 114 | Valve Location Method for Evaluating Drain Efficiency in Water Transmission Pipelines. <i>Water (Switzerland)</i> , 2020 , 12, 2759 | 3 | |
| 113 | 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 |
| 112 | Harmony Search-Based Approach for Multi-Objective Software Architecture Reconstruction. <i>Mathematics</i> , 2020 , 8, 1906 | 2.3 | 4 |
| 111 | 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 |
| 110 | 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 |
| 109 | Bond Strength Assessment of Concrete-Corroded Rebar Interface Using Artificial Neural Network. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4724 | 2.6 | 7 |
| 108 | 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 |
| 107 | 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 |
| 106 | Mayfly in Harmony: A New Hybrid Meta-Heuristic Feature Selection Algorithm. <i>IEEE Access</i> , 2020 , 8, 195929-195945 | 3.7 | 3 |
| 105 | A New Method for Analyzing the Performance of the Harmony Search Algorithm. <i>Mathematics</i> , 2020 , 8, 1421 | 2.3 | 3 |
| 104 | Optimized Energy Cost and Carbon Emission-Aware Virtual Machine Allocation in Sustainable Data Centers. <i>Sustainability</i> , 2020 , 12, 6383 | 3.6 | 8 |
| 103 | EHHM: Electrical Harmony Based Hybrid Meta-Heuristic for Feature Selection. <i>IEEE Access</i> , 2020 , 8, 158125-158141 | 3.5 | 11 |
| 102 | Eco-Friendly Design of Reinforced Concrete Retaining Walls: Multi-objective Optimization with Harmony Search Applications. <i>Sustainability</i> , 2020 , 12, 6087 | 3.6 | 16 |
| 101 | Prediction of suicide among 372,813 individuals under medical check-up. <i>Journal of Psychiatric Research</i> , 2020 , 131, 9-14 | 5.2 | 4 |
| 100 | Optimal Design of a Residential Photovoltaic Renewable System in South Korea. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1138 | 2.6 | 11 |
| 99 | 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 |
| 98 | Review of harmony search with respect to algorithm structure. <i>Swarm and Evolutionary Computation</i> , 2019 , 48, 31-43 | 9.8 | 48 |

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| 97 | A Novel Human Respiration Pattern Recognition Using Signals of Ultra-Wideband Radar Sensor. <i>Sensors</i> , 2019 , 19, | 3.8 | 8 |
| 96 | 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 |
| 95 | 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 |
| 94 | 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 |
| 93 | 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 |
| 92 | Vanishing point detection for self-driving car using harmony search algorithm. <i>Swarm and Evolutionary Computation</i> , 2018 , 41, 111-119 | 9.8 | 33 |
| 91 | Religion and Depression in South Korea: A Comparison between Buddhism, Protestantism, and Roman Catholicism. <i>Religions</i> , 2018 , 9, 3 | 0.6 | 5 |
| 90 | 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 |
| 89 | 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 |
| 88 | 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 |
| 87 | Improved Optimization for Wastewater Treatment and Reuse System Using Computational Intelligence. <i>Complexity</i> , 2018 , 2018, 1-8 | 1.6 | 7 |
| 86 | 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 |
| 85 | 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 |
| 84 | Metaheuristics in structural optimization and discussions on harmony search algorithm. <i>Swarm and Evolutionary Computation</i> , 2016 , 28, 88-97 | 9.8 | 103 |
| 83 | Metaheuristic Optimization in Structural Engineering. <i>Modeling and Optimization in Science and Technologies</i> , 2016 , 75-93 | 0.6 | 2 |
| 82 | Artificial Satellite Heat Pipe Design Using Harmony Search. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 423-433 | 0.4 | 3 |
| 81 | Adaptive Kalman Filter Based on Adjustable Sampling Interval in Burst Detection for Water Distribution System. <i>Water (Switzerland)</i> , 2016 , 8, 142 | 3 | 18 |
| 80 | Sustainable Optimization for Wastewater Treatment System Using PSF-HS. <i>Sustainability</i> , 2016 , 8, 321 | 3.6 | 3 |

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| 79 | 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 |
| 78 | Optimal Energy Mix with Renewable Portfolio Standards in Korea. <i>Sustainability</i> , 2016 , 8, 423 | 3.6 | 6 |
| 77 | Parameter Estimation for a Proton Exchange Membrane Fuel Cell Model Using GRG Technique. <i>Fuel Cells</i> , 2016 , 16, 640-645 | 2.9 | 20 |
| 76 | Cost-Optimized FPSO Mooring Design Via Harmony Search. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2016 , 138, | 1.5 | 4 |
| 75 | Can Music Supplant Math in Environmental Planning?. <i>Leonardo</i> , 2015 , 48, 147-150 | 0.1 | 4 |
| 74 | A new nonlinear Muskingum flood routing model incorporating lateral flow. <i>Engineering Optimization</i> , 2015 , 47, 737-749 | 2 | 28 |
| 73 | 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 |
| 72 | A Critical Review of Robustness in Power Grids Using Complex Networks Concepts. <i>Energies</i> , 2015 , 8, 9211-9265 | 3.1 | 142 |
| 71 | Multiobjective Optimization of Water Distribution Networks Using Fuzzy Theory and Harmony Search. <i>Water (Switzerland)</i> , 2015 , 7, 3613-3625 | 3 | 28 |
| 70 | 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 |
| 69 | 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 |
| 68 | Sustainable Building Design: A Review on Recent Metaheuristic Methods. <i>Studies in Computational Intelligence</i> , 2015 , 203-223 | 0.8 | 3 |
| 67 | A novel harmony search based optimization of reinforced concrete biaxially loaded columns. <i>Structural Engineering and Mechanics</i> , 2015 , 54, 1097-1109 | | 22 |
| 66 | Overview of Harmony Search algorithm and its applications in Civil Engineering. <i>Evolutionary Intelligence</i> , 2014 , 7, 3-16 | 1.7 | 27 |
| 65 | Case study of renewable-only smart grid system for a Korean island 2014 , | | 1 |
| 64 | An island grouping genetic algorithm for fuzzy partitioning problems. <i>Scientific World Journal, The</i> , 2014 , 2014, 916371 | 2.2 | 8 |
| 63 | Wastewater Treatment Optimization for Fish Migration Using Harmony Search. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-5 | 1.1 | 8 |
| 62 | 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 |

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| 61 | Issues in optimal parameter estimation for the nonlinear Muskingum flood routing model. <i>Engineering Optimization</i> , 2014 , 46, 328-339 | 2 | 19 |
| 60 | 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 |
| 59 | An analysis of selection methods in memory consideration for harmony search. <i>Applied Mathematics and Computation</i> , 2013 , 219, 10753-10767 | 2.7 | 30 |
| 58 | A survey on applications of the harmony search algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 1818-1831 | 7.2 | 263 |
| 57 | Hybrid Heuristic Optimization Methods in Geotechnical Engineering 2013 , 205-229 | | 1 |
| 56 | Generalised Adaptive Harmony Search: A Comparative Analysis of Modern Harmony Search. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-13 | 1.1 | 7 |
| 55 | 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 |
| 54 | 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 |
| 53 | Economic Dispatch Using Parameter-Setting-Free Harmony Search. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-5 | 1.1 | 10 |
| 52 | Harmony Search and Nature-Inspired Algorithms for Engineering Optimization. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-2 | 1.1 | 6 |
| 51 | 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 |
| 50 | 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 |
| 49 | Size optimization for a hybrid photovoltaic/wind energy system. <i>International Journal of Electrical Power and Energy Systems</i> , 2012 , 42, 448-451 | 5.1 | 96 |
| 48 | 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 |
| 47 | 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 |
| 46 | Closure to Parameter Estimation of the Nonlinear Muskingum Model Using Parameter-Setting-Free Harmony Search by Zong Woo Geem. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 1416-1417 | 1.8 | |
| 45 | 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 |
| 44 | 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 |

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| 43 | 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 |
| 42 | Transport energy demand modeling of South Korea using artificial neural network. <i>Energy Policy</i> , 2011 , 39, 4644-4650 | 7.2 | 37 |
| 41 | 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 |
| 40 | Solution quality improvement in chiller loading optimization. <i>Applied Thermal Engineering</i> , 2011 , 31, 1848-1851 | 3.0 | 30 |
| 39 | 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 | |
| 38 | Stochastic co-derivative of harmony search algorithm. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2011 , 2, 1 | 0.3 | 2 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | Parameter-setting-free harmony search algorithm. <i>Applied Mathematics and Computation</i> , 2010 , 217, 3881-3889 | 2.7 | 167 |
| 33 | Research Commentary. <i>International Journal of Applied Metaheuristic Computing</i> , 2010 , 1, 75-79 | 0.8 | 13 |
| 32 | State-of-the-Art in the Structure of Harmony Search Algorithm. <i>Studies in Computational Intelligence</i> , 2010 , 1-10 | 0.8 | 41 |
| 31 | Energy demand estimation of South Korea using artificial neural network. <i>Energy Policy</i> , 2009 , 37, 4049-4054 | 7.2 | 129 |
| 30 | 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 |
| 29 | 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 |
| 28 | Global Optimization Using Harmony Search: Theoretical Foundations and Applications. <i>Studies in Computational Intelligence</i> , 2009 , 57-73 | 0.8 | 3 |
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