# Ali Sadollah

List of Publications by Year
in descending order

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|---|---|---|---|
| 79 papers | 4,427 citations | 201385 27 h-index | 110170 64 g-index |
| 83 all docs | 83 docs citations | 83 times ranked | 3019 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Water cycle algorithm â€“ A novel metaheuristic optimization method for solving constrained engineering optimization problems. Computers and Structures, 2012, 110-111, 151-166. | 2.4 | 1,210 |
| 2 | Mine blast algorithm: A new population based algorithm for solving constrained engineering optimization problems. Applied Soft Computing Journal, 2013, 13, 2592-2612. | 4.1 | 740 |
| 3 | Water cycle algorithm for solving constrained multi-objective optimization problems. Applied Soft Computing Journal, 2015, 27, 279-298. | 4.1 | 213 |
| 4 | Mine blast algorithm for optimization of truss structures with discrete variables. Computers and Structures, 2012, 102-103, 49-63. | 2.4 | 183 |
| 5 | A dynamic metaheuristic optimization model inspired by biological nervous systems: Neural network algorithm. Applied Soft Computing Journal, 2018, 71, 747-782. | 4.1 | 176 |
| 6 | Water cycle algorithm with evaporation rate for solving constrained and unconstrained optimization problems. Applied Soft Computing Journal, 2015, 30, 58-71. | 4.1 | 173 |
| 7 | A review of energy-efficient scheduling in intelligent production systems. Complex & Intelligent Systems, 2020, 6, 237-249. | 4.0 | 139 |
| 8 | Artificial bee colony algorithm for scheduling and rescheduling fuzzy flexible job shop problem with new job insertion. Knowledge-Based Systems, 2016, 109, 1-16. | 4.0 | 112 |
| 9 | Water cycle, mine blast and improved mine blast algorithms for discrete sizing optimization of truss structures. Computers and Structures, 2015, 149, 1-16. | 2.4 | 107 |
| 10 | Water cycle algorithm for solving multi-objective optimization problems. Soft Computing, 2015, 19, 2587-2603. | 2.1 | 99 |
| 11 | A discrete water cycle algorithm for solving the symmetric and asymmetric traveling salesman problem. Applied Soft Computing Journal, 2018, 71, 277-290. | 4.1 | 89 |
| 12 | A cooperative particle swarm optimizer with stochastic movements for computationally expensive numerical optimization problems. Journal of Computational Science, 2016, 13, 68-82. | 1.5 | 76 |
| 13 | Water cycle algorithm: A detailed standard code. SoftwareX, 2016, 5, 37-43. | 1.2 | 75 |
| 14 | Optimizing urban traffic light scheduling problem using harmony search with ensemble of local search. Applied Soft Computing Journal, 2016, 48, 359-372. | 4.1 | 72 |
| 15 | Jaya, harmony search and water cycle algorithms for solving large-scale real-life urban traffic light scheduling problem. Swarm and Evolutionary Computation, 2017, 37, 58-72. | 4.5 | 64 |
| 16 | Gradient-based Water Cycle Algorithm with evaporation rate applied to chaos suppression. Applied Soft Computing Journal, 2017, 53, 420-440. | 4.1 | 61 |
| 17 | Prediction and optimization of electrospinning parameters for polymethyl methacrylate nanofiber fabrication using response surface methodology and artificial neural networks. Neural Computing and Applications, 2014, 25, 767-777. | 3.2 | 60 |
| 18 | Optimum gradient material for a functionally graded dental implant using metaheuristic algorithms. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 1384-1395. | 1.5 | 48 |

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|---|---|---|---|
| 19 | Approximate solving of nonlinear ordinary differential equations using least square weight function and metaheuristic algorithms. Engineering Applications of Artificial Intelligence, 2015, 40, 117-132. | 4.3 | 40 |
| 20 | Mine blast harmony search: A new hybrid optimization method for improving exploration and exploitation capabilities. Applied Soft Computing Journal, 2018, 68, 548-564. | 4.1 | 39 |
| 21 | A comprehensive review on water cycle algorithm and its applications. Neural Computing and Applications, 2020, 32, 17433-17488. | 3.2 | 38 |
| 22 | Optimization of laminate stacking sequence for minimizing weight and cost using elitist ant system optimization. Advances in Engineering Software, 2013, 57, 8-18. | 1.8 | 37 |
| 23 | Improved mine blast algorithm for optimal cost design of water distribution systems. Engineering Optimization, 2015, 47, 1602-1618. | 1.5 | 37 |
| 24 | A combination of FA and SRPSO algorithm for Combined Heat and Power Economic Dispatch. Applied Soft Computing Journal, 2021, 102, 107088. | 4.1 | 36 |
| 25 | Optimization of reinforced concrete retaining walls via hybrid firefly algorithm with upper bound strategy. KSCE Journal of Civil Engineering, 2016, 20, 2428-2438. | 0.9 | 33 |
| 26 | Modelling and optimization of integrated distributed flow shop scheduling and distribution problems with time windows. Expert Systems With Applications, 2022, 187, 115827. | 4.4 | 32 |
| 27 | Sustainability and Optimization: From Conceptual Fundamentals to Applications. Sustainability, 2020, 12, 2027. | 1.6 | 31 |
| 28 | Application of multiâ€objective evolutionary algorithms for the rehabilitation of storm sewer pipe networks. Journal of Flood Risk Management, 2017, 10, 326-338. | 1.6 | 25 |
| 29 | Modelling and scheduling integration of distributed production and distribution problems via black widow optimization. Swarm and Evolutionary Computation, 2022, 68, 101015. | 4.5 | 25 |
| 30 | Metaheuristic algorithms for approximate solution to ordinary differential equations of longitudinal fins having various profiles. Applied Soft Computing Journal, 2015, 33, 360-379. | 4.1 | 23 |
| 31 | Optimization of a Transit Services Model with a Feeder Bus and Rail System Using Metaheuristic Algorithms. Journal of Computing in Civil Engineering, 2015, 29, . | 2.5 | 21 |
| 32 | Discrete harmony search algorithm for scheduling and rescheduling the reprocessing problems in remanufacturing: a case study. Engineering Optimization, 2018, 50, 965-981. | 1.5 | 20 |
| 33 | Prediction and optimization of stability parameters for titanium dioxide nanofluid using response surface methodology and artificial neural networks. Science and Engineering of Composite Materials, 2013, 20, 319-330. | 0.6 | 18 |
| 34 | Applications of network analysis and multi-objective genetic algorithm for selecting optimal water quality sensor locations in water distribution networks. KSCE Journal of Civil Engineering, 2015, 19, 2333-2344. | 0.9 | 18 |
| 35 | Optimization of an Improved Intermodal Transit Model Equipped with Feeder Bus and Railway Systems Using Metaheuristics Approaches. Sustainability, 2016, 8, 537. | 1.6 | 16 |
| 36 | Optimal cost design of water distribution networks using a decomposition approach. Engineering Optimization, 2016, 48, 2141-2156. | 1.5 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Management of traffic congestion in adaptive traffic signals using a novel classification-based approach. Engineering Optimization, 2019, 51, 1509-1528. | 1.5 | 14 |
| 38 | Improved artificial bee colony algorithm for solving urban traffic light scheduling problem. , 2017, , . | | 12 |
| 39 | Improved Q â€learning algorithm for solving permutation flow shop scheduling problems. IET Collaborative Intelligent Manufacturing, 2022, 4, 35-44. | 1.9 | 11 |
| 40 | Geometry optimization of a cylindrical fin heat sink using mine blast algorithm. International Journal of Advanced Manufacturing Technology, 2014, 73, 795-804. | 1.5 | 10 |
| 41 | Jaya algorithm for solving urban traffic signal control problem. , 2016, , . | | 10 |
| 42 | A wavelet-based scheme for impact identification of framed structures using combined genetic and water cycle algorithms. Journal of Sound and Vibration, 2019, 443, 25-46. | 2.1 | 10 |
| 43 | Fuzzy Dynamic Adaptation of Parameters in the Water Cycle Algorithm. Studies in Computational Intelligence, 2017, , 297-311. | 0.7 | 9 |
| 44 | Improvement of Cyber-Attack Detection Accuracy from Urban Water Systems Using Extreme Learning Machine. Applied Sciences (Switzerland), 2020, 10, 8179. | 1.3 | 9 |
| 45 | Comparative Study of Harmony Search Algorithm and its Applications in China, Japan and Korea. Applied Sciences (Switzerland), 2020, 10, 3970. | 1.3 | 9 |
| 46 | Minimizing the levelized cost of energy in an offshore wind farm with non-homogeneous turbines through layout optimization. Ocean Engineering, 2022, 249, 110859. | 1.9 | 9 |
| 47 | Discrete Jaya algorithm for flexible job shop scheduling problem with new job insertion. , 2016, , . | | 8 |
| 48 | Stability and iterative convergence of water cycle algorithm for computationally expensive and combinatorial Internet shopping optimisation problems. Journal of Experimental and Theoretical Artificial Intelligence, 2019, 31, 701-721. | 1.8 | 8 |
| 49 | Harmony Search Algorithm and Fuzzy Logic Theory: An Extensive Review from Theory to Applications. Mathematics, 2021, 9, 2665. | 1.1 | 8 |
| 50 | Optimum Material Gradient for Functionally Graded Dental Implant Using Particle Swarm Optimization. Advanced Materials Research, 0, 647, 30-36. | 0.3 | 7 |
| 51 | Optimal Coordination Strategy for an Integrated Multimodal Transit Feeder Network Design Considering Multiple Objectives. Sustainability, 2018, 10, 734. | 1.6 | 7 |
| 52 | Optimal Pipe Size Design for Looped Irrigation Water Supply System Using Harmony Search: Saemangeum Project Area. Scientific World Journal, The, 2015, 2015, 1-10. | 0.8 | 6 |
| 53 | The application of water cycle algorithm to portfolio selection. Economic Research-Ekonomska Istrazivanja, 2017, 30, 1277-1299. | 2.6 | 6 |
| 54 | Urban transit network optimization under variable demand with single and multi-objective approaches using metaheuristics: The case of Daejeon, Korea. International Journal of Sustainable Transportation, 2021, 15, 386-406. | 2.1 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | A Comparative State-of-the-Art Constrained Metaheuristics Framework for TRUSS Optimisation on Shape and Sizing. Mathematical Problems in Engineering, 2022, 2022, 1-13. | 0.6 | 6 |
| 56 | Sizing Optimization of Sandwich Panels Having Prismatic Core Using Water Cycle Algorithm. , 2013, , . | | 5 |
| 57 | Performance Measures of Metaheuristic Algorithms. Advances in Intelligent Systems and Computing, 2016, , 11-17. | 0.5 | 5 |
| 58 | Self-adaptive global mine blast algorithm for numerical optimization. Neural Computing and Applications, 2020, 32, 2423-2444. | 3.2 | 5 |
| 59 | Performance comparison of metaheuristic algorithms using a modified Gaussian fitness landscape generator. Soft Computing, 2020, 24, 7383-7393. | 2.1 | 5 |
| 60 | Water Cycle Algorithm with Fuzzy Logic for Dynamic Adaptation of Parameters. Lecture Notes in Computer Science, 2017, , 250-260. | 1.0 | 5 |
| 61 | Optimization of die design using metaheuristic methods in cold forward extrusion process. Neural Computing and Applications, 2012, 21, 2071-2076. | 3.2 | 4 |
| 62 | Metaheuristic optimization algorithms for approximate solutions to ordinary differential equations. , 2015, , . | | 4 |
| 63 | Performance Comparison of Metaheuristic Optimization Algorithms Using Water Distribution System Design Benchmarks. Advances in Intelligent Systems and Computing, 2019, , 97-104. | 0.5 | 4 |
| 64 | Prediction and optimization of electrical conductivity for polymer-based composites using design of experiment and artificial neural networks. Neural Computing and Applications, 2022, 34, 7653-7671. | 3.2 | 4 |
| 65 | Optimal power flow solution using water cycle algorithm. , 2016, , . | | 3 |
| 66 | Improved model of combinatorial Internet shopping optimization problem using evolutionary algorithms. , 2016, , . | | 2 |
| 67 | Mine Blast Harmony Search and Its Applications. Advances in Intelligent Systems and Computing, 2016, , 155-168. | 0.5 | 2 |
| 68 | Engineering benchmark generation and performance measurement of evolutionary algorithms. , 2017, , . | | 2 |
| 69 | Generation of Benchmark Problems for Optimal Design of Water Distribution Systems. Water (Switzerland), 2019, 11, 1637. | 1.2 | 2 |
| 70 | Imprecise Solutions of Ordinary Differential Equations for Boundary Value Problems Using Metaheuristic Algorithms. Advances in Computational Intelligence and Robotics Book Series, 2016, , 401-421. | 0.4 | 2 |
| 71 | Optimum mechanical behavior of calcium phosphate cement/hydroxyl group functionalized multi-walled carbon nanotubes/bovine serum albumin composite using metaheuristic algorithms. Neural Computing and Applications, 2014, 24, 193-200. | 3.2 | 1 |
| 72 | Metaheuristic optimisation methods for approximate solving of singular boundary value problems. Journal of Experimental and Theoretical Artificial Intelligence, 2017, 29, 823-842. | 1.8 | 1 |

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|---|---|---|---|
| 73 | The Extraordinary Particle Swarm Optimization and Its Application in Constrained Engineering Problems. Advances in Intelligent Systems and Computing, 2017, , 35-41. | 0.5 | 1 |
| 74 | Optimization of Hydropower Storage Projects Using Harmony Search Algorithm. Advances in Intelligent Systems and Computing, 2017, , 261-270. | 0.5 | 1 |
| 75 | Approximate solutions of heat transfer fins with convex and exponential profiles using fourier-based optimization method. , 2016, , . | | 0 |
| 76 | KU Battle of Metaheuristic Optimization Algorithms 2: Performance Test. Advances in Intelligent Systems and Computing, 2016, , 207-213. | 0.5 | 0 |
| 77 | Memetic computing for imprecise solution of T-shaped heat transfer fins. Engineering Optimization, 2021, 53, 1504-1522. | 1.5 | 0 |
| 78 | A New Collaborative Approach to Particle Swarm Optimization for Global Optimization. Advances in Intelligent Systems and Computing, 2016, , 641-649. | 0.5 | 0 |
| 79 | A Novel Metaheuristic Approach for Loss Reduction and Voltage Profile Improvement in Power Distribution Networks Based on Simultaneous Placement and Sizing of Distributed Generators and Shunt Capacitor Banks. Lecture Notes in Computer Science, 2020, , 64-76. | 1.0 | 0 |