

# Majdi Mafarja

## 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.

|                   |                         |                |                 |
|-------------------|-------------------------|----------------|-----------------|
| 83<br>papers      | 5,378<br>citations      | 29<br>h-index  | 73<br>g-index   |
| 86<br>ext. papers | 7,660<br>ext. citations | 4.6<br>avg, IF | 6.89<br>L-index |

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 83 | Image segmentation of Leaf Spot Diseases on Maize using multi-stage Cauchy-enabled grey wolf algorithm. <i>Engineering Applications of Artificial Intelligence</i> , <b>2022</b> , 109, 104653                       | 7.2 | 8         |
| 82 | Multi-threshold image segmentation using a multi-strategy shuffled frog leaping algorithm. <i>Expert Systems With Applications</i> , <b>2022</b> , 194, 116511   | 7.8 | 5         |
| 81 | Boolean Particle Swarm Optimization with various Evolutionary Population Dynamics approaches for feature selection problems. <i>Expert Systems With Applications</i> , <b>2022</b> , 195, 116550                     | 7.8 | 3         |
| 80 | Performance optimization of support vector machine with oppositional grasshopper optimization for acute appendicitis diagnosis.. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 143, 105206                | 7   | 11        |
| 79 | Random reselection particle swarm optimization for optimal design of solar photovoltaic modules. <i>Energy</i> , <b>2022</b> , 239, 121865   | 7.9 | 22        |
| 78 | Solar radiation estimation in different climates with meteorological variables using Bayesian model averaging and new soft computing models. <i>Energy Reports</i> , <b>2021</b> , 7, 8973-8996                      | 4.6 | 4         |
| 77 | A decomposition and multi-objective evolutionary optimization model for suspended sediment load prediction in rivers. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2021</b> , 15, 1811-1829 | 4.5 | 2         |
| 76 | . <i>IEEE Access</i> , <b>2021</b> , 9, 143824-143835  | 3.5 | 7         |
| 75 | An Enhanced Evolutionary Student Performance Prediction Model Using Whale Optimization Algorithm Boosted with Sine-Cosine Mechanism. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 10237                 | 2.6 | 3         |
| 74 | Generalized Oppositional Moth Flame Optimization with Crossover Strategy: An Approach for Medical Diagnosis. <i>Journal of Bionic Engineering</i> , <b>2021</b> , 18, 991-1010                                       | 2.7 | 3         |
| 73 | A hybrid mine blast algorithm for feature selection problems. <i>Soft Computing</i> , <b>2021</b> , 25, 517-534  | 3.5 | 18        |
| 72 | Whale Optimisation Algorithm for high-dimensional small-instance feature selection. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , <b>2021</b> , 36, 80-96                             | 1   | 17        |
| 71 | A Robust Multi-Objective Feature Selection Model Based on Local Neighborhood Multi-Verse Optimization. <i>IEEE Access</i> , <b>2021</b> , 9, 100009-100028   | 3.5 | 4         |
| 70 | Controlling Population Diversity of Harris Hawks Optimization Algorithm Using Self-adaptive Clustering Approach. <i>Algorithms for Intelligent Systems</i> , <b>2021</b> , 163-175                                   | 0.5 |           |
| 69 | Spiral Motion Mode Embedded Grasshopper Optimization Algorithm: Design and Analysis. <i>IEEE Access</i> , <b>2021</b> , 9, 71104-71132   | 3.5 | 5         |
| 68 | A New Online Learned Interval Type-3 Fuzzy Control System for Solar Energy Management Systems. <i>IEEE Access</i> , <b>2021</b> , 9, 10498-10508   | 3.5 | 27        |
| 67 | Teaching Learning-Based Optimization With Evolutionary Binarization Schemes for Tackling Feature Selection Problems. <i>IEEE Access</i> , <b>2021</b> , 9, 41082-41103   | 3.5 | 8         |

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| 66 | Diffusion analysis with high and low concentration regions by the finite difference method, the adaptive network-based fuzzy inference system, and the bilayered neural network method. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2021</b> , 15, 1392-1399 | 4.5  |    |
| 65 | Credal decision tree based novel ensemble models for spatial assessment of gully erosion and sustainable management. <i>Scientific Reports</i> , <b>2021</b> , 11, 3147  | 4.9  | 2  |
| 64 | A bioinformatic variant fruit fly optimizer for tackling optimization problems. <i>Knowledge-Based Systems</i> , <b>2021</b> , 213, 106704   | 7.3  | 15 |
| 63 | Spatial bound whale optimization algorithm: an efficient high-dimensional feature selection approach. <i>Neural Computing and Applications</i> , <b>2021</b> , 33, 16229   | 4.8  | 7  |
| 62 | Diagnosis of Obstructive Sleep Apnea from ECG Signals Using Machine Learning and Deep Learning Classifiers. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6622   | 2.6  | 10 |
| 61 | Multilevel threshold image segmentation with diffusion association slime mould algorithm and Renyi's entropy for chronic obstructive pulmonary disease. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 134, 104427   | 7    | 34 |
| 60 | BHHO-TVS: A Binary Harris Hawks Optimizer with Time-Varying Scheme for Solving Data Classification Problems. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6516  | 2.6  | 5  |
| 59 | Evolving fuzzy k-nearest neighbors using an enhanced sine cosine algorithm: Case study of lupus nephritis. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 135, 104582  | 7    | 10 |
| 58 | Soil Erosion Prediction Based on Moth-Flame Optimizer-Evolved Kernel Extreme Learning Machine. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 2115   | 2.6  | 2  |
| 57 | Spiral Motion Enhanced Elite Whale Optimizer for Global Tasks. <i>Complexity</i> , <b>2021</b> , 2021, 1-33  | 1.6  | 0  |
| 56 | Towards Precision Fertilization: Multi-Strategy Grey Wolf Optimizer Based Model Evaluation and Yield Estimation. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 2183   | 2.6  | 1  |
| 55 | Performance optimization of differential evolution with slime mould algorithm for multilevel breast cancer image segmentation. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 138, 104910  | 7    | 18 |
| 54 | Laplacian Nelder-Mead spherical evolution for parameter estimation of photovoltaic models. <i>Energy Conversion and Management</i> , <b>2021</b> , 243, 114223   | 10.6 | 12 |
| 53 | Boosted kernel search: Framework, analysis and case studies on the economic emission dispatch problem. <i>Knowledge-Based Systems</i> , <b>2021</b> , 107529   | 7.3  | 7  |
| 52 | Evaluation of constraint in photovoltaic cells using ensemble multi-strategy shuffled frog leading algorithms. <i>Energy Conversion and Management</i> , <b>2021</b> , 244, 114484   | 10.6 | 14 |
| 51 | Ant colony optimization with Cauchy and greedy Levy mutations for multilevel COVID 19 X-ray image segmentation. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 136, 104609   | 7    | 17 |
| 50 | Metaphor-free dynamic spherical evolution for parameter estimation of photovoltaic modules. <i>Energy Reports</i> , <b>2021</b> , 7, 5175-5202   | 4.6  | 12 |
| 49 | Evolutionary competitive swarm exploring optimal support vector machines and feature weighting. <i>Soft Computing</i> , <b>2021</b> , 25, 3335-3352  | 3.5  | 10 |

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|----|--|-----|----|
| 48 | An improved Dragonfly Algorithm for feature selection. <i>Knowledge-Based Systems</i> , <b>2020</b> , 203, 106131  | 7.3 | 58 |
| 47 | A dynamic locality multi-objective salp swarm algorithm for feature selection. <i>Computers and Industrial Engineering</i> , <b>2020</b> , 147, 106628                                 | 6.4 | 40 |
| 46 | Island artificial bee colony for global optimization. <i>Soft Computing</i> , <b>2020</b> , 24, 13461-13487  | 3.5 | 17 |
| 45 | Optimal Type-3 Fuzzy System for Solving Singular Multi-Pantograph Equations. <i>IEEE Access</i> , <b>2020</b> , 8, 225692-225702   | 5.2 | 92 |
| 44 | Binary Thermal Exchange Optimization for Feature Selection. <i>Studies in Big Data</i> , <b>2020</b> , 239-260   | 0.9 |    |
| 43 | Binary Harris Hawks Optimizer for High-Dimensional, Low Sample Size Feature Selection. <i>Algorithms for Intelligent Systems</i> , <b>2020</b> , 251-272                               | 0.5 | 30 |
| 42 | Efficient Moth-Flame-Based Neuroevolution Models. <i>Algorithms for Intelligent Systems</i> , <b>2020</b> , 51-66  | 0.5 | 1  |
| 41 | Augmented whale feature selection for IoT attacks: Structure, analysis and applications. <i>Future Generation Computer Systems</i> , <b>2020</b> , 112, 18-40                          | 7.5 | 26 |
| 40 | Time-varying hierarchical chains of salps with random weight networks for feature selection. <i>Expert Systems With Applications</i> , <b>2020</b> , 140, 112898                       | 7.8 | 51 |
| 39 | Boosting salp swarm algorithm by sine cosine algorithm and disrupt operator for feature selection. <i>Expert Systems With Applications</i> , <b>2020</b> , 145, 113103                 | 7.8 | 88 |
| 38 | Clustering analysis using a novel locality-informed grey wolf-inspired clustering approach. <i>Knowledge and Information Systems</i> , <b>2020</b> , 62, 507-539                       | 2.4 | 45 |
| 37 | Dragonfly Algorithm: Theory, Literature Review, and Application in Feature Selection. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 47-67                               | 0.8 | 30 |
| 36 | Multi-verse Optimizer: Theory, Literature Review, and Application in Data Clustering. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 123-141                             | 0.8 | 37 |
| 35 | Salp Swarm Algorithm: Theory, Literature Review, and Application in Extreme Learning Machines. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 185-199                    | 0.8 | 36 |
| 34 | Ant Lion Optimizer: Theory, Literature Review, and Application in Multi-layer Perceptron Neural Networks. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 23-46           | 0.8 | 43 |
| 33 | Grey Wolf Optimizer: Theory, Literature Review, and Application in Computational Fluid Dynamics Problems. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 87-105          | 0.8 | 18 |
| 32 | Feature selection using binary grey wolf optimizer with elite-based crossover for Arabic text classification. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 12201-12220 | 4.8 | 56 |
| 31 | Efficient Hybrid Nature-Inspired Binary Optimizers for Feature Selection. <i>Cognitive Computation</i> , <b>2020</b> , 12, 150-175   | 4.4 | 54 |

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|----|---|------|------|
| 30 | Dynamic Adaptive Network-Based Fuzzy Inference System (D-ANFIS) for the Imputation of Missing Data for Internet of Medical Things Applications. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 9316-9325 | 10.7 | 12   |
| 29 | An evolutionary gravitational search-based feature selection. <i>Information Sciences</i> , <b>2019</b> , 497, 219-239  | 7.7  | 118  |
| 28 | Island flower pollination algorithm for global optimization. <i>Journal of Supercomputing</i> , <b>2019</b> , 75, 5280-5323   | 7.3  | 29   |
| 27 | Hybrid binary ant lion optimizer with rough set and approximate entropy reducts for feature selection. <i>Soft Computing</i> , <b>2019</b> , 23, 6249-6265  | 3.5  | 77   |
| 26 | An intelligent system for spam detection and identification of the most relevant features based on evolutionary Random Weight Networks. <i>Information Fusion</i> , <b>2019</b> , 48, 67-83                         | 16.7 | 144  |
| 25 | Flow shop scheduling with blocking using modified harmony search algorithm with neighboring heuristics methods. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 85, 105861                                    | 7.5  | 4    |
| 24 | Harris hawks optimization: Algorithm and applications. <i>Future Generation Computer Systems</i> , <b>2019</b> , 97, 849-872  | 7.5  | 1523 |
| 23 | Evolving neural networks using bird swarm algorithm for data classification and regression applications. <i>Cluster Computing</i> , <b>2019</b> , 22, 1317-1345   | 2.1  | 19   |
| 22 | <b>2019</b> ,   |      | 8    |
| 21 | Binary grasshopper optimisation algorithm approaches for feature selection problems. <i>Expert Systems With Applications</i> , <b>2019</b> , 117, 267-286   | 7.8  | 219  |
| 20 | Iterated feature selection algorithms with layered recurrent neural network for software fault prediction. <i>Expert Systems With Applications</i> , <b>2019</b> , 122, 27-42                                       | 7.8  | 57   |
| 19 | Evolutionary Population Dynamics and Grasshopper Optimization approaches for feature selection problems. <i>Knowledge-Based Systems</i> , <b>2018</b> , 145, 25-45  | 7.3  | 243  |
| 18 | Binary dragonfly optimization for feature selection using time-varying transfer functions. <i>Knowledge-Based Systems</i> , <b>2018</b> , 161, 185-204  | 7.3  | 232  |
| 17 | Asynchronous accelerating multi-leader salp chains for feature selection. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 71, 964-979   | 7.5  | 143  |
| 16 | An efficient binary Salp Swarm Algorithm with crossover scheme for feature selection problems. <i>Knowledge-Based Systems</i> , <b>2018</b> , 154, 43-67  | 7.3  | 339  |
| 15 | Whale optimization approaches for wrapper feature selection. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 62, 441-453  | 7.5  | 342  |
| 14 | Whale Optimization Algorithm for High-dimensional Small-Instance Feature Selection <b>2018</b> ,  |      | 2    |
| 13 | Feature Selection Using Salp Swarm Algorithm with Chaos <b>2018</b> ,   |      | 45   |

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| 12 | Rank based binary particle swarm optimisation for feature selection in classification <b>2018</b> ,  |     | 9   |
| 11 | Feature selection using binary particle swarm optimization with time varying inertia weight strategies <b>2018</b> ,   |     | 23  |
| 10 | Training neural networks using Salp Swarm Algorithm for pattern classification <b>2018</b> ,   |     | 22  |
| 9  | Hybrid Whale Optimization Algorithm with simulated annealing for feature selection. <i>Neurocomputing</i> , <b>2017</b> , 260, 302-312   | 5.4 | 615 |
| 8  | S-Shaped vs. V-Shaped Transfer Functions for Ant Lion Optimization Algorithm in Feature Selection Problem <b>2017</b> ,  |     | 31  |
| 7  | Binary Dragonfly Algorithm for Feature Selection <b>2017</b> ,   |     | 76  |
| 6  | A fuzzy record-to-record travel algorithm for solving rough set attribute reduction. <i>International Journal of Systems Science</i> , <b>2015</b> , 46, 503-512   | 2.3 | 25  |
| 5  | Fuzzy Modified Great Deluge Algorithm for Attribute Reduction. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 195-203  | 0.4 | 6   |
| 4  | Investigating memetic algorithm in solving rough set attribute reduction. <i>International Journal of Computer Applications in Technology</i> , <b>2013</b> , 48, 195                                    | 0.7 | 36  |
| 3  | Comparison between Record to Record Travel and Great Deluge Attribute Reduction Algorithms for Classification Problem. <i>Communications in Computer and Information Science</i> , <b>2013</b> , 111-120 | 0.3 | 2   |
| 2  | Modified great deluge for attribute reduction in rough set theory <b>2011</b> ,  |     | 12  |
| 1  | Elite dominance scheme ingrained adaptive salp swarm algorithm: a comprehensive study. <i>Engineering With Computers</i> ,1  | 4.5 | 3   |