

# Adam Slowik

## List of Publications by Year in descending order

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64  
papers

1,659  
citations

471061

17  
h-index

315357

38  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1334  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolutionary algorithms and their applications to engineering problems. <i>Neural Computing and Applications</i> , 2020, 32, 12363-12379.	3.2	261
2	Nature Inspired Methods and Their Industry Applications – Swarm Intelligence Algorithms. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 1004-1015.	7.2	164
3	MOSOA: A new multi-objective seagull optimization algorithm. <i>Expert Systems With Applications</i> , 2021, 167, 114150.	4.4	153
4	Training of artificial neural networks using differential evolution algorithm. , 2008, , .		94
5	A Self-Adaptive Mutation Neural Architecture Search Algorithm Based on Blocks. <i>IEEE Computational Intelligence Magazine</i> , 2021, 16, 67-78.	3.4	93
6	EMoSQA: a new evolutionary multi-objective seagull optimization algorithm for global optimization. <i>International Journal of Machine Learning and Cybernetics</i> , 2021, 12, 571-596.	2.3	88
7	Adaptive crossover operator based multi-objective binary genetic algorithm for feature selection in classification. <i>Knowledge-Based Systems</i> , 2021, 227, 107218.	4.0	81
8	Artificial Intelligence Technique for Gene Expression by Tumor RNA-Seq Data: A Novel Optimized Deep Learning Approach. <i>IEEE Access</i> , 2020, 8, 22874-22883.	2.6	71
9	Application of an Adaptive Differential Evolution Algorithm With Multiple Trial Vectors to Artificial Neural Network Training. <i>IEEE Transactions on Industrial Electronics</i> , 2011, 58, 3160-3167.	5.2	53
10	Modified African Buffalo Optimization for Strategic Integration of Battery Energy Storage in Distribution Networks. <i>IEEE Access</i> , 2020, 8, 14289-14301.	2.6	49
11	Multi-objective orthogonal opposition-based crow search algorithm for large-scale multi-objective optimization. <i>Neural Computing and Applications</i> , 2020, 32, 13715-13746.	3.2	47
12	Multi-objective hybrid genetic algorithm for task scheduling problem in cloud computing. <i>Neural Computing and Applications</i> , 2021, 33, 13075-13088.	3.2	44
13	Use of Machine Learning Methods for Predicting Amount of Bioethanol Obtained from Lignocellulosic Biomass with the Use of Ionic Liquids for Pretreatment. <i>Energies</i> , 2021, 14, 243.	1.6	42
14	A novel hybrid hypervolume indicator and reference vector adaptation strategies based evolutionary algorithm for many-objective optimization. <i>Engineering With Computers</i> , 2021, 37, 3017-3035.	3.5	39
15	Multi-objective optimization of surface grinding process with the use of evolutionary algorithm with remembered Pareto set. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 37, 657-669.	1.5	29
16	Energy consumption prediction of appliances using machine learning and multi-objective binary grey wolf optimization for feature selection. <i>Applied Soft Computing Journal</i> , 2021, 111, 107745.	4.1	26
17	An Ameliorative Hybrid Algorithm for Solving the Capacitated Vehicle Routing Problem. <i>IEEE Access</i> , 2019, 7, 175454-175465.	2.6	21
18	An improved bat optimization algorithm to solve the tasks scheduling problem in open shop. <i>Neural Computing and Applications</i> , 2021, 33, 1559-1573.	3.2	18

#	ARTICLE	IF	CITATIONS
19	Hybrid Approaches to Nature-Inspired Population-Based Intelligent Optimization for Industrial Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 546-558.	7.2	17
20	Design and Optimization of Combinational Digital Circuits Using Modified Evolutionary Algorithm. Lecture Notes in Computer Science, 2004, , 468-473.	1.0	17
21	Application of evolutionary algorithm to design minimal phase digital filters with non-standard amplitude characteristics and finite bit word length. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2011, 59, 125-135.	0.8	16
22	Techno-Economic Feasibility Analysis of Grid-Connected Microgrid Design by Using a Modified Multi-Strategy Fusion Artificial Bee Colony Algorithm. Energies, 2021, 14, 190.	1.6	16
23	Steering of Balance between Exploration and Exploitation Properties of Evolutionary Algorithms - Mix Selection. Lecture Notes in Computer Science, 2010, , 213-220.	1.0	14
24	Multipopulation Nature-Inspired Algorithm (MNIA) for the Designing of Interpretable Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2020, 28, 1125-1139.	6.5	14
25	Design and Optimization of IIR Digital Filters with Non-Standard Characteristics Using Particle Swarm Optimization Algorithm. , 2007, , .		13
26	Hybridization of Grey Wolf Optimizer and Crow Search Algorithm Based on Dynamic Fuzzy Learning Strategy for Large-Scale Optimization. IEEE Access, 2020, 8, 161593-161611.	2.6	13
27	Enhancement in Quality of Routing Service Using Metaheuristic PSO Algorithm in VANET Networks. Soft Computing, 2023, 27, 2739-2750.	2.1	13
28	Partitioning of VLSI Circuits on Subcircuits with Minimal Number of Connections Using Evolutionary Algorithm. Lecture Notes in Computer Science, 2006, , 470-478.	1.0	13
29	Evolutionary design of combinational digital circuits: State of the art, main problems, and future trends. , 2008, , .		12
30	An improved Jaya algorithm with a modified swap operator for solving team formation problem. Soft Computing, 2020, 24, 16627-16641.	2.1	11
31	Hybrid crow search and uniform crossover algorithm-based clustering for top-N recommendation system. Neural Computing and Applications, 2021, 33, 7145-7164.	3.2	11
32	Design and Optimization of IIR Digital Filters with Non-standard Characteristics Using Continuous Ant Colony Optimization Algorithm. Lecture Notes in Computer Science, 2008, , 395-400.	1.0	11
33	Classification of Airborne Laser Bathymetry Data Using Artificial Neural Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1959-1966.	2.3	10
34	A feature selection approach for spam detection in social networks using gravitational force-based heuristic algorithm. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 1633-1646.	3.3	8
35	Improvement of grey wolf optimizer with adaptive middle filter to adjust support vector machine parameters to predict diabetes complications. Neural Computing and Applications, 2021, 33, 15205-15228.	3.2	7
36	Classification Based on Brain Storm Optimization With Feature Selection. IEEE Access, 2021, 9, 16582-16590.	2.6	6

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37	Handwritten Character Recognition Based on Improved Convolutional Neural Network. Intelligent Automation and Soft Computing, 2021, 29, 497-509.	1.6	5
38	Seabed Modelling by Means of Airborne Laser Bathymetry Data and Imbalanced Learning for Offshore Mapping. Sensors, 2022, 22, 3121.	2.1	5
39	Guest Editorial: Hybrid Approaches to Nature-Inspired Population-Based Intelligent Optimization for Industrial Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 542-545.	7.2	4
40	Orthogonal Latin squares-based firefly optimization algorithm for industrial quadratic assignment tasks. Neural Computing and Applications, 2021, 33, 16675-16696.	3.2	4
41	Design and Multi-Objective Optimization of Combinational Digital Circuits Using Evolutionary Algorithm with Multi-Layer Chromosomes. Lecture Notes in Computer Science, 2008, , 479-488.	1.0	4
42	Hybridization of Evolutionary Algorithm with Yule Walker Method to Design Minimal Phase Digital Filters with Arbitrary Amplitude Characteristics. Lecture Notes in Computer Science, 2011, , 67-74.	1.0	4
43	Particle Swarm Optimization. The Electrical Engineering Handbook, 2011, , 1-9.	0.2	4
44	Fuzzy Control of Trade-Off between Exploration and Exploitation Properties of Evolutionary Algorithms. Lecture Notes in Computer Science, 2011, , 59-66.	1.0	3
45	Introduction to the Special Section on Nature Inspired Methods in Industry Applications. IEEE Transactions on Industrial Informatics, 2018, 14, 1001-1003.	7.2	2
46	Type-2 Fuzzy Logic Control of Trade-off between Exploration and Exploitation Properties of Genetic Algorithms. Lecture Notes in Computer Science, 2012, , 368-376.	1.0	2
47	Using a Hierarchical Fuzzy System for Traffic Lights Control Process. Lecture Notes in Computer Science, 2017, , 292-301.	1.0	2
48	A population-based algorithm with the selection of evaluation precision and size of the population. Applied Soft Computing Journal, 2021, 115, 108154.	4.1	2
49	Defect Prediction in Software Using Predictive Models Based on Historical Data. Advances in Intelligent Systems and Computing, 2019, , 96-103.	0.5	1
50	Efficient Creation of Population of Stable Biquad Sections with Predefined Stability Margin for Evolutionary Digital Filter Design Methods. Lecture Notes in Computer Science, 2017, , 451-460.	1.0	1
51	Population Management Approaches in the OPn Algorithm. Lecture Notes in Computer Science, 2021, , 402-414.	1.0	1
52	Application of Geometric Differential Evolution Algorithm to Design Minimal Phase Digital Filters with Atypical Characteristics for Their Hardware or Software Implementation. Lecture Notes in Computer Science, 2013, , 67-78.	1.0	1
53	On Fast Randomly Generation of Population of Minimal Phase and Stable Biquad Sections for Evolutionary Digital Filters Design Methods. Lecture Notes in Computer Science, 2016, , 511-520.	1.0	1
54	An Application of Fuzzy Logic to Traffic Lights Control and Simulation in Real Time. Lecture Notes in Computer Science, 2016, , 266-275.	1.0	1

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55	Introduction to the Special Section on Intelligent Systems. IEEE Transactions on Industrial Electronics, 2012, 59, 3046-3048.	5.2	0
56	Evolutionary Optimization of Number of Gates in PLA Circuits Implemented in VLSI Circuits. Lecture Notes in Computer Science, 2009, , 363-368.	1.0	0
57	Evolutionary Computation. The Electrical Engineering Handbook, 2011, , 1-9.	0.2	0
58	Evolutionary Multi-objective Optimization of Personal Computer Hardware Configurations. Lecture Notes in Computer Science, 2012, , 359-367.	1.0	0
59	Comparative Study on Bio-inspired Global Optimization Algorithms in Minimal Phase Digital Filters Design. Lecture Notes in Computer Science, 2014, , 217-226.	1.0	0
60	Optimalizacja procesu wiercenia otworów w elektronicznych płytach drukowanych przy użyciu algorytmu roju cząstek. Przegląd Elektrotechniczny, 2016, 1, 12-15.	0.1	0
61	Porównanie systemów rozmytych w procesie sterowania sygnalizacją... światła... Przegląd Elektrotechniczny, 2018, 1, 122-125.	0.1	0
62	Zastosowanie kartezjańskiego programowania genetycznego do projektowania filtrów cyfrowych do przetwarzania obrazów. Przegląd Elektrotechniczny, 2018, 1, 76-79.	0.1	0
63	Implementacja systemu rozmytego przeznaczonego do sterowania instalacją... centralnego ogrzewania. Przegląd Elektrotechniczny, 2018, 1, 80-83.	0.1	0
64	Fuzzy Control of Exploration and Exploitation Trade-Off with On-Line Convergence Rate Estimation in Evolutionary Algorithms. Lecture Notes in Computer Science, 2020, , 454-463.	1.0	0