Navid Razmjooy

List of Publications by Year
in descending order

92 papers	3,387 citations	136885 32 h-index	161767 54 g-index
99 all docs	99 docs citations	99 times ranked	1382 citing authors

#	Article	IF	Citations
1	A New Meta-Heuristic Optimization Algorithm Inspired by FIFA World Cup Competitions: Theory and Its Application in PID Designing for AVR System. Journal of Control, Automation and Electrical Systems, 2016, 27, 419-440.	1.2	190
2	A hybrid neural network â€" world cup optimization algorithm for melanoma detection. Open Medicine (Poland), 2018, 13, 9-16.	0.6	188
3	Computer-aided diagnosis of skin cancer based on soft computing techniques. Open Medicine (Poland), 2020, 15, 860-871.	0.6	179
4	Experimental modeling of PEM fuel cells using a new improved seagull optimization algorithm. Energy Reports, 2019, 5, 1616-1625.	2.5	149
5	System identification of PEM fuel cells using an improved Elman neural network and a new hybrid optimization algorithm. Energy Reports, 2019, 5, 1365-1374.	2.5	120
6	A real-time mathematical computer method for potato inspection using machine vision. Computers and Mathematics With Applications, 2012, 63, 268-279.	1.4	119
7	A new technique for optimal estimation of the circuit-based PEMFCs using developed Sunflower Optimization Algorithm. Energy Reports, 2020, 6, 662-671.	2.5	115
8	Multi-objective optimization for the proper selection of the best heat pump technology in a fuel cell-heat pump micro-CHP system. Energy Reports, 2020, 6, 325-335.	2.5	105
9	An optimal configuration for a battery and PEM fuel cell-based hybrid energy system using developed Krill herd optimization algorithm for locomotive application. Energy Reports, 2020, 6, 885-894.	2.5	103
10	Imperialist Competitive Algorithm-Based Optimization of Neuro-Fuzzy System Parameters for Automatic Red-eye Removal. International Journal of Fuzzy Systems, 2017, 19, 1144-1156.	2.3	97
11	Multi-objective optimization of a PEMFC based CCHP system by meta-heuristics. Energy Reports, 2019, 5, 1551-1559.	2.5	97
12	New optimal design for a hybrid solar chimney, solid oxide electrolysis and fuel cell based on improved deer hunting optimization algorithm. Journal of Cleaner Production, 2020, 249, 119414.	4.6	92
13	Computer-aided Diagnosis of Skin Cancer: A Review. Current Medical Imaging, 2020, 16, 781-793.	0.4	82
14	Breast Cancer Diagnosis by Convolutional Neural Network and Advanced Thermal Exchange Optimization Algorithm. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-13.	0.7	76
15	Model parameter estimation of the PEMFCs using improved Barnacles Mating Optimization algorithm. Energy, 2020, 212, 118738.	4.5	73
16	Optimization of PEMFC Model Parameters Using Meta-Heuristics. Sustainability, 2021, 13, 12771.	1.6	73
17	Brain tumor diagnosis based on metaheuristics and deep learning. International Journal of Imaging Systems and Technology, 2021, 31, 657-669.	2.7	72
18	A New Improved Model of Marine Predator Algorithm for Optimization Problems. Arabian Journal for Science and Engineering, 2021, 46, 8803-8826.	1.7	66

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19	Optimal parameter extraction of PEM fuel cells by meta-heuristics. International Journal of Ambient Energy, 2022, 43, 2510-2519.	1.4	65
20	Multi-objective scheduling of IoT-enabled smart homes for energy management based on Arithmetic Optimization Algorithm: A Node-RED and NodeMCU module-based technique. Knowledge-Based Systems, 2022, 247, 108762.	4.0	61
21	A Multi Layer Perceptron Neural Network Trained by Invasive Weed Optimization for Potato Color Image Segmentation. Trends in Applied Sciences Research, 2012, 7, 445-455.	0.4	60
22	A hybrid neural network Imperialist Competitive Algorithm for skin color segmentation. Mathematical and Computer Modelling, 2013, 57, 848-856.	2.0	59
23	Computer-aided breast cancer diagnosis based on image segmentation and interval analysis. Automatika, 2020, 61, 496-506.	1.2	56
24	A new optimal energy management strategy based on improved multi-objective antlion optimization algorithm: applications in smart home. SN Applied Sciences, 2020, 2, 1.	1.5	52
25	Novel <scp>computer-aided</scp> lung cancer detection based on <scp>convolutional neural network</scp>-based and feature-based classifiers using metaheuristics. International Journal of Imaging Systems and Technology, 2021, 31, 1954-1969.	2.7	49
26	A computer-aided diagnosis system for malignant melanomas. Neural Computing and Applications, 2013, 23, 2059-2071.	3.2	47
27	A New optimized sequential method for lung tumor diagnosis based on deep learning and converged search and rescue algorithm. Biomedical Signal Processing and Control, 2021, 68, 102761.	3.5	45
28	Optimal configuration and energy management for combined solar chimney, solid oxide electrolysis, and fuel cell: a case study in Iran. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2023, 45, 9794-9814.	1.2	44
29	Employing a Gaussian Particle Swarm Optimization method for tuning Multi Input Multi Output-fuzzy system as an integrated controller of a micro-grid with stability analysis. Computational Intelligence, 2020, 36, 225-258.	2.1	44
30	Distributed Deep CNN-LSTM Model for Intrusion Detection Method in IoT-Based Vehicles. Mathematical Problems in Engineering, 2022, 2022, 1-8.	0.6	42
31	Health 4.0: Applications, Management, Technologies and Review. Medical Technologies Journal, 2019, 2, 262-276.	0.5	40
32	COMPUTER VISION-BASED POTATO DEFECT DETECTION USING NEURAL NETWORKS AND SUPPORT VECTOR MACHINE. International Journal of Robotics and Automation, 2013, 28, .	0.1	39
33	Optimal operational strategy of hybrid PV/wind renewable energy system using homer: a case study. International Journal of Ambient Energy, 2022, 43, 3953-3966.	1.4	36
34	Entropy-Based Breast Cancer Detection in Digital Mammograms Using World Cup Optimization Algorithm. International Journal of Swarm Intelligence Research, 2020, 11, 1-18.	0.5	33
35	Lung cancer diagnosis in CT images based on Alexnet optimized by modified Bowerbird optimization algorithm. Biomedical Signal Processing and Control, 2022, 77, 103791.	3.5	33
36	A new optimisation algorithm based on OCM and PCM solution through energy reserve. International Journal of Ambient Energy, 2022, 43, 2299-2312.	1.4	32

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37	Semantic image classification by genetic algorithm using optimised fuzzy system based on Zernike moments. Signal, Image and Video Processing, 2014, 8, 831-842.	1.7	30
38	A new interval differential equation for edge detection and determining breast cancer regions in mammography images. Systems Science and Control Engineering, 2019, 7, 346-356.	1.8	30
39	Nerve optic segmentation in CT images using a deep learning model and a texture descriptor. Complex & Intelligent Systems, 2022, 8, 3543-3557.	4.0	29
40	Color image segmentation using neuro-fuzzy system in a novel optimized color space. Neural Computing and Applications, 2013, 23, 1513-1520.	3.2	26
41	Exergy analysis of a fuel cell power system and optimizing it with Fractional-order Coyote Optimization Algorithm. Energy Reports, 2021, 7, 7424-7433.	2.5	26
42	Design robust controller for automatic generation control in restructured power system by imperialist competitive algorithm. IETE Journal of Research, 2013, 59, 745.	1.8	25
43	Optimal arrangement of a micro-CHP system in the presence of fuel cell-heat pump based on metaheuristics. International Journal of Ambient Energy, 2023, 44, 2128-2139.	1.4	25
44	A Study on Metaheuristic-Based Neural Networks for Image Segmentation Purposes. , 2019, , 25-49.		22
45	A new configuration of autonomous <scp>CHP</scp> system based on improved version of marine predators algorithm: A case study. International Transactions on Electrical Energy Systems, 2021, 31, e12806.	1.2	21
46	PEMFC IDENTIFICATION USING DEEP LEARNING DEVELOPED BY IMPROVED DEER HUNTING OPTIMIZATION ALGORITHM. International Journal of Power and Energy Systems, 2020, 40, .	0.2	18
47	Designing a Robust and Adaptive PID Controller for Gas Turbine Connected to the Generator. Research Journal of Applied Sciences, Engineering and Technology, 2013, 5, 1544-1551.	0.1	17
48	Skin Melanoma Segmentation Using Neural Networks Optimized by Quantum Invasive Weed Optimization Algorithm. Lecture Notes in Electrical Engineering, 2021, , 233-250.	0.3	17
49	Interval linear quadratic regulator and its application for speed control of DC motor in the presence of uncertainties. ISA Transactions, 2022, 125, 252-259.	3.1	15
50	A New Design for Robust Control of Power System Stabilizer Based on Moth Search Algorithm. Lecture Notes in Electrical Engineering, 2021, , 187-202.	0.3	15
51	Automatic selection and fusion of color spaces for image thresholding. Signal, Image and Video Processing, 2014, 8, 603-614.	1.7	14
52	Why Software-Defined Radio (SDR) Matters in Healthcare?. Medical Technologies Journal, 2019, 3, 421-429.	0.5	14
53	Optimal location and capacity of multi-distributed generation for loss reduction and voltage profile improvement using imperialist competitive algorithm. Artificial Intelligence Research, 2012, 1, 56.	0.3	13
54	Analytical Solution for Optimal Control by the Second Kind Chebyshev Polynomials Expansion. Iranian Journal of Science and Technology, Transaction A: Science, 2017, 41, 1017-1026.	0.7	13

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55	Sustainable Adoption of Connected Vehicles in the Brazilian Landscape: Policies, Technical Specifications and Challenges. Transactions on Environment and Electrical Engineering, 2018, 3, 44.	0.5	13
56	Application of fuzzy subtractive clustering for optimal transient performance of automatic generation control in restructured power system. Journal of Intelligent and Fuzzy Systems, 2014, 26, 1155-1166.	0.8	12
57	Skin Color Segmentation Based on Artificial Neural Network Improved by a Modified Grasshopper Optimization Algorithm. Lecture Notes in Electrical Engineering, 2021, , 169-185.	0.3	12
58	Uncertain Method for Optimal Control Problems With Uncertainties Using Chebyshev Inclusion Functions. Asian Journal of Control, 2019, 21, 824-831.	1.9	11
59	New approaches for regulation of solid oxide fuel cell using dynamic condition approximation and STATCOM. International Transactions on Electrical Energy Systems, 2021, 31, e12756.	1.2	11
60	A new method for detecting texture defects based on modified local binary pattern. Signal, Image and Video Processing, 2018, 12, 1395-1401.	1.7	9
61	Using Transmedia Approaches in STEM. , 2020, , .		9
62	Optimum design of PSS and SVC controller for damping low frequency oscillation (LFO). , 2011, , .		8
63	Speed Control of a DC Motor Using PID Controller Based on Improved Whale Optimization Algorithm. Lecture Notes in Electrical Engineering, 2021, , 153-167.	0.3	7
64	Potential model for improvement of the data transmission in healthcare systems. , 2019, , .		7
65	A Survey of Potatoes Image Segmentation Based on Machine Vision. Advances in Environmental Engineering and Green Technologies Book Series, 2019, , 1-38.	0.3	7
66	Image transmission in UAV MIMO UWB-OSTBC system over Rayleigh channel using multiple description coding (MDC). , 2020, , 67-90.		6
67	A Solution for Dubins Path Problem with Uncertainties Using World Cup Optimization and Chebyshev Polynomials. Smart Innovation, Systems and Technologies, 2019, , 45-54.	0.5	5
68	World Cup Optimization Algorithm: Application for Optimal Control of Pitch Angle in Hybrid Renewable PV/Wind Energy System. Lecture Notes in Electrical Engineering, 2021, , 25-47.	0.3	5
69	Quality of experience (QoE) and quality of service (QoS) in UAV systems. , 2020, , 215-245.		5
70	Multispectral vs hyperspectral imaging for unmanned aerial vehicles: current and prospective state of affairs. , 2020, , 133-155.		4
71	WT-MO Algorithm. Advances in Environmental Engineering and Green Technologies Book Series, 2019, , 39-79.	0.3	4
72	Nondestructive Diagnosis and Analysis of Computed Microtomography Images via Texture Descriptors. , 2021, , 249-261.		4

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73	Introduction to Computational Intelligence and Super-Resolution. , 2021, , 3-23.		3
74	Exergy Analysis of a Fuel Cell Power System and Optimizing it with Fractional-Order Coyote Optimization Algorithm. SSRN Electronic Journal, 0, , .	0.4	2
75	Digital Garbage Bin Monitoring System (DGBMS). Smart Innovation, Systems and Technologies, 2021, , 488-497.	0.5	2
76	Solution of the Hamilton jacobi bellman uncertainties by the interval version of adomian decomposition method. International Robotics & Automation Journal, 2018, 4, .	0.3	2
77	Automatic Redeye Correction in Digital Photos. International Journal of Computer Applications, 2014, 95, 9-17.	0.2	2
78	Image thresholding based on evolutionary algorithms. African Journal of Business Management, 2011, 6, .	0.4	2
79	Open-source software (OSS) and hardware (OSH) in UAVs. , 2020, , 49-66.		2
80	Using Metaheuristics in Discrete-Event Simulation. Lecture Notes in Electrical Engineering, 2021, , 275-292.	0.3	2
81	Metaheuristics Applied to Blood Image Analysis. Lecture Notes in Electrical Engineering, 2021, , 117-135.	0.3	2
82	Building Bridges and Remediating Illiteracy: How Intergenerational Cooperation Foster Better Engineering Professionals. , 2021, , 29-39.		2
83	Transmission Line Congestion Management by Specifying Optimal Placement of FACTS Devices Using Artificial Bee Colony Optimization. Research Journal of Applied Sciences, Engineering and Technology, 2013, 6, 4350-4357.	0.1	1
84	Collocation method for differential variational inequality problems. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2466.	1.2	1
85	A Computational Intelligence Perspective on Multimodal Image Registration for Unmanned Aerial Vehicles (UAVs). Lecture Notes in Electrical Engineering, 2021, , 251-274.	0.3	1
86	A Multi-criteria Modelling for Ranking CO2 Emitting G20 Countries from the Kaya Identity and Their Impacts on Elderly Health. Smart Innovation, Systems and Technologies, 2021, , 477-487.	0.5	1
87	Stability Analysis of the Interval Systems Based on Linear Matrix Inequalities. Smart Innovation, Systems and Technologies, 2019, , 371-378.	0.5	1
88	Integrated optical flow for situation awareness, detection and avoidance systems in UAV systems. , 2020, , 47-74.		1
89	A Model for Medical Staff Idleness Minimization. Smart Innovation, Systems and Technologies, 2019, , 633-645.	0.5	1
90	Optimal Bidding Strategy in Power Market before and after Congestion Management Using Invasive Weed Optimization. Research Journal of Applied Sciences, Engineering and Technology, 2013, 5, 1330-1338.	0.1	0

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91	An Interval Insight to Adomian Decomposition Method for Ordinary Differential Systems by Considering Uncertain Coefficients with Chebyshev Polynomials. Smart Innovation, Systems and Technologies, 2021, , 245-257.	0.5	0
92	Vision in micro-aerial vehicles. , 2020, , 173-216.		0