List of Publications by Year
in descending order

136 papers	8,452 citations	81743 39 h-index	54797 84 g-index
151 all docs	151 docs citations	151 times ranked	3096 citing authors

#	Article	IF	Citations
1	A DRL-Based Service Offloading Approach Using DAG for Edge Computational Orchestration. IEEE Transactions on Computational Social Systems, 2024, , 1-9.	3.2	21
2	Service Workflow: State-of-the-Art and Future Trends. IEEE Transactions on Services Computing, 2023, 16, 757-772.	3.2	11
3	<scp>BOSS</scp>: A new <scp>QoS</scp> aware blockchain assisted framework for secure and smart healthcare as a service. Expert Systems, 2023, 40, e12838.	2.9	15
4	An <scp>IoT</scp> and <scp>Blockchain</scp>â€based approach for the smart water management system in agriculture. Expert Systems, 2023, 40, e12892.	2.9	23
5	HSSAHHO: a novel hybrid Salp Swarm-Harris Hawks optimization algorithm for complex engineering problems. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 11569-11605.	3.3	15
6	Pattern analysis: predicting COVID-19 pandemic in India using AutoML. World Journal of Engineering, 2022, 19, 21-28.	1.0	31
7	ADOPT: automatic deep learning and optimization-based approach for detection of novel coronavirus COVID-19 disease using X-ray images. Journal of Biomolecular Structure and Dynamics, 2022, 40, 5836-5847.	2.0	57
8	SChoA: a newly fusion of sine and cosine with chimp optimization algorithm for HLS of datapaths in digital filters and engineering applications. Engineering With Computers, 2022, 38, 975-1003.	3.5	40
9	Line Monitoring and Identification Based on Roadmap Towards Edge Computing. Wireless Personal Communications, 2022, 127, 441-464.	1.8	18
10	COVID-19: Challenges and its Technological Solutions using IoT. Current Medical Imaging, 2022, 18, 113-123.	0.4	31
11	COVID-19: Role of Robotics, Artificial Intelligence and Machine Learning During the Pandemic. Current Medical Imaging, 2022, 18, 124-134.	0.4	28
12	Conceptualizing smart city applications: Requirements, architecture, security issues, and emerging trends. Expert Systems, 2022, 39, .	2.9	104
13	A rangeâ€free localization algorithm for IoT networks. International Journal of Intelligent Systems, 2022, 37, 10336-10379.	3.3	12
14	Online learning in COVID-19 pandemic: an empirical study of Indian and Turkish higher education institutions. World Journal of Engineering, 2022, 19, 58-71.	1.0	14
15	The Application of Convolutional Neural Network Model in Diagnosis and Nursing of MR Imaging in Alzheimer's Disease. Interdisciplinary Sciences, Computational Life Sciences, 2022, 14, 34-44.	2.2	12
16	Performance Evaluation of Multilayer Clustering Network Using Distributed Energy Efficient Clustering with Enhanced Threshold Protocol. Wireless Personal Communications, 2022, 126, 2175-2189.	1.8	49
17	An IoT and machine learningâ€based routing protocol for reconfigurable engineering application. IET Communications, 2022, 16, 464-475.	1.5	26
18	Mobile Networks-on-Chip Mapping Algorithms for Optimization of Latency and Energy Consumption. Mobile Networks and Applications, 2022, 27, 637-651.	2.2	8

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19	Energy-Effective and Secure Data Transfer Scheme for Mobile Nodes in Smart City Applications. Wireless Personal Communications, 2022, 127, 2041-2061.	1.8	15
20	Deep learning–influenced joint vehicle–to–infrastructure and vehicle–to–vehicle communication approach for internet of vehicles. Expert Systems, 2022, 39, e12815.	2.9	9
21	Task Scheduling in Cloud Using ACO. Recent Advances in Computer Science and Communications, 2022, 15, .	0.5	9
22	Internet of Things for sustaining a smart and secure healthcare system. Sustainable Computing: Informatics and Systems, 2022, 33, 100622.	1.6	25
23	SHANN: an IoT and machine-learning-assisted edge cross-layered routing protocol using spotted hyena optimizer. Complex & Intelligent Systems, 2022, 8, 3779-3787.	4.0	20
24	A novel cluster head selection using Hybrid Artificial Bee Colony and Firefly Algorithm for network lifetime and stability in WSNs. Connection Science, 2022, 34, 387-408.	1.8	16
25	Smart-Hydroponic-Based Framework for Saffron Cultivation: A Precision Smart Agriculture Perspective. Sustainability, 2022, 14, 1120.	1.6	23
26	Deep Learning Model for the Automatic Classification of White Blood Cells. Computational Intelligence and Neuroscience, 2022, 2022, 1-13.	1.1	59
27	A Novel Machine-Learning-Based Hybrid CNN Model for Tumor Identification in Medical Image Processing. Sustainability, 2022, 14, 1447.	1.6	37
28	Enhanced Virtualization-Based Dynamic Bin-Packing Optimized Energy Management Solution for Heterogeneous Clouds. Mathematical Problems in Engineering, 2022, 2022, 1-11.	0.6	11
29	Recognition of Gurmukhi Handwritten City Names Using Deep Learning and Cloud Computing. Scientific Programming, 2022, 2022, 1-16.	0.5	23
30	Special Issue on Computational Approaches for COVID-19 Disease Medical Image Analysis. Current Medical Imaging, 2022, 18, 103-103.	0.4	1
31	Guest Editorial: Cybertwin-Driven 6G for Internet of Everything: Architectures, Challenges, and Industrial Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 4846-4849.	7.2	4
32	Building trust of Blockchain-based Internet-of-Thing services using public key infrastructure. Enterprise Information Systems, 2022, 16, .	3.3	19
33	Federated Learning Approach to Protect Healthcare Data over Big Data Scenario. Sustainability, 2022, 14, 2500.	1.6	28
34	iTSA: an improved Tunicate Swarm Algorithm for defensive resource assignment problem. Soft Computing, 2022, 26, 4929-4937.	2.1	3
35	Appositeness of Optimized and Reliable Machine Learning for Healthcare: A Survey. Archives of Computational Methods in Engineering, 2022, 29, 3981-4003.	6.0	16
36	Distributed Deep CNN-LSTM Model for Intrusion Detection Method in IoT-Based Vehicles. Mathematical Problems in Engineering, 2022, 2022, 1-8.	0.6	42

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37	Velocity clamping-assisted adaptive salp swarm algorithm: balance analysis and case studies. Mathematical Biosciences and Engineering, 2022, 19, 7756-7804.	1.0	13
38	A Fog-Cluster Based Load-Balancing Technique. Sustainability, 2022, 14, 7961.	1.6	17
39	Novel Big Data Networking Framework Using Multihoming Optimization for Distributed Stream Computing. Wireless Communications and Mobile Computing, 2022, 2022, 1-11.	0.8	2
40	A novel hybrid hypervolume indicator and reference vector adaptation strategies based evolutionary algorithm for many-objective optimization. Engineering With Computers, 2021, 37, 3017-3035.	3.5	39
41	The Effects of Coronavirus (COVID-19) on the Psychological Health of Indian Poultry Farmers. Coronaviruses, 2021, 2, 131-132.	0.2	10
42	A novel content-based image retrieval approach for classification using GLCM features and texture fused LBP variants. Neural Computing and Applications, 2021, 33, 1311-1328.	3.2	112
43	A novel algorithm for global optimization: Rat Swarm Optimizer. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 8457-8482.	3.3	227
44	MOSOA: A new multi-objective seagull optimization algorithm. Expert Systems With Applications, 2021, 167, 114150.	4.4	153
45	BEPO: A novel binary emperor penguin optimizer for automatic feature selection. Knowledge-Based Systems, 2021, 211, 106560.	4.0	165
46	EMoSOA: a new evolutionary multi-objective seagull optimization algorithm for global optimization. International Journal of Machine Learning and Cybernetics, 2021, 12, 571-596.	2.3	88
47	ESA: a hybrid bio-inspired metaheuristic optimization approach for engineering problems. Engineering With Computers, 2021, 37, 323-353.	3.5	125
48	Job Scheduling in Cloud Using Seagull Optimization Algorithm. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2021, , 27-40.	0.5	1
49	Nature-Inspired-Based Approach for Automated Cyberbullying Classification on Multimedia Social Networking. Mathematical Problems in Engineering, 2021, 2021, 1-12.	0.6	114
50	DON: Deep Learning and Optimization-Based Framework for Detection of Novel Coronavirus Disease Using X-ray Images. Interdisciplinary Sciences, Computational Life Sciences, 2021, 13, 260-272.	2.2	96
51	Optimization of Ultrasound Information Imaging Algorithm in Cardiovascular Disease Based on Image Enhancement. Mathematical Problems in Engineering, 2021, 2021, 1-13.	0.6	8
52	Ubiquitous Vehicular Ad-Hoc Network Computing Using Deep Neural Network with IoT-Based Bat Agents for Traffic Management. Electronics (Switzerland), 2021, 10, 785.	1.8	67
53	Fuzzy Alexandroff soft topological spaces. Materials Today: Proceedings, 2021, , .	0.9	0
54	Hysteretic controlled Inter-leaved buck â€"Converter based AC-DC Micro-grid system with enhanced response. Materials Today: Proceedings, 2021, , .	0.9	3

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55	A novel approach to optimize the production cost of railway coaches of India using situational-based composite triangular and trapezoidal fuzzy LPP models. Complex & Intelligent Systems, 2021, 7, 2053.	4.0	11
56	A Novel Ensemble-based Classifier for Detecting the COVID-19 Disease for Infected Patients. Information Systems Frontiers, 2021, 23, 1385-1401.	4.1	15
57	Enhanced emperor penguin optimization algorithm for dynamic economic dispatch with renewable energy sources and microgrid. Journal of Intelligent and Fuzzy Systems, 2021, 40, 9041-9058.	0.8	7
58	A Review on Machine-learning Based Code Smell Detection Techniques in Object-oriented Software System(s). Recent Advances in Electrical and Electronic Engineering, 2021, 14, 290-303.	0.2	12
59	Urban Rain Flood Ecosystem Design Planning and Feasibility Study for the Enrichment of Smart Cities. Sustainability, 2021, 13, 5205.	1.6	15
60	A Detailed Research on Human Health Monitoring System Based on Internet of Things. Wireless Communications and Mobile Computing, 2021, 2021, 1-9.	0.8	30
61	A short survey of co-builders web framework. Materials Today: Proceedings, 2021, , .	0.9	2
62	A New Hybrid Deep Learning Algorithm for Prediction of Wide Traffic Congestion in Smart Cities. Wireless Communications and Mobile Computing, 2021, 2021, 1-13.	0.8	40
63	Application of Blockchain and Internet of Things in Healthcare and Medical Sector: Applications, Challenges, and Future Perspectives. Journal of Food Quality, 2021, 2021, 1-20.	1.4	150
64	SSC: A hybrid nature-inspired meta-heuristic optimization algorithm for engineering applications. Knowledge-Based Systems, 2021, 222, 106926.	4.0	83
65	Scalable and Storage Efficient Dynamic Key Management Scheme for Wireless Sensor Network. Wireless Communications and Mobile Computing, 2021, 2021, 1-11.	0.8	10
66	Analysis of protein-ligand interactions of SARS-CoV-2 against selective drug using deep neural networks. Big Data Mining and Analytics, 2021, 4, 76-83.	7.5	31
67	Automatic detection of cyberbullying using multi-feature based artificial intelligence with deep decision tree classification. Computers and Electrical Engineering, 2021, 92, 107186.	3.0	46
68	Prediction of Heart Disease Using a Combination of Machine Learning and Deep Learning. Computational Intelligence and Neuroscience, 2021, 2021, 1-11.	1.1	234
69	Artificial intelligence based grid connected inverters for power quality improvement in smart grid applications. Computers and Electrical Engineering, 2021, 93, 107208.	3.0	21
70	Gene Expression-Assisted Cancer Prediction Techniques. Journal of Healthcare Engineering, 2021, 2021, 1-9.	1.1	37
71	Real time video summarizing using image semantic segmentation for CBVR. Journal of Real-Time Image Processing, 2021, 18, 1827-1836.	2.2	6
72	An Approach for Thoracic Syndrome Classification with Convolutional Neural Networks. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-10.	0.7	23

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73	Evaluation of Ergonomics-Related Disorders in Online Education Using Fuzzy AHP. Computational Intelligence and Neuroscience, 2021, 2021, 1-11.	1.1	22
74	Cooperative spectrum sensing optimization for cognitive radio in 6ÂG networks. Computers and Electrical Engineering, 2021, 95, 107378.	3.0	15
75	An improved opposition-based marine predators algorithm for global optimization and multilevel thresholding image segmentation. Knowledge-Based Systems, 2021, 229, 107348.	4.0	92
76	Opposition-based moth swarm algorithm. Expert Systems With Applications, 2021, 184, 115481.	4.4	38
77	A PSO Enable Multi-Hop Clustering Algorithm for VANET. International Journal of Swarm Intelligence Research, 2021, 13, 1-14.	0.5	9
78	Predicting the Death Rate Around the World Due to COVID-19 Using Regression Analysis. International Journal of Swarm Intelligence Research, 2021, 13, 1-13.	0.5	16
79	Task Scheduling in Cloud Computing Using Spotted Hyena Optimizer. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2021, , 136-149.	0.5	2
80	A Novel Resource Allocation and Scheduling Based on Priority Using Metaheuristic for Cloud Computing Environment. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2021, , 113-134.	0.5	2
81	A Novel Technique on Autism Spectrum Disorders Using Classification Techniques. Advances in Medical Diagnosis, Treatment, and Care, 2021, , 40-53.	0.1	1
82	Binary Spring Search Algorithm for Solving Various Optimization Problems. Applied Sciences (Switzerland), 2021, 11, 1286.	1.3	34
83	Fog-centric IoT based smart healthcare support service for monitoring and controlling an epidemic of Swine Flu virus. Informatics in Medicine Unlocked, 2021, 26, 100636.	1.9	19
84	Adaptive Diagnosis of Lung Cancer by Deep Learning Classification Using Wilcoxon Gain and Generator. Journal of Healthcare Engineering, 2021, 2021, 1-13.	1.1	28
85	Futuristic Cyber-Twin Architecture for 6G Technology to Support Internet of Everything. Scientific Programming, 2021, 2021, 1-7.	0.5	16
86	A soft computing based multi-objective optimization approach for automatic prediction of software cost models. Applied Soft Computing Journal, 2021, 113, 107981.	4.1	7
87	Photo voltaic integrated multilevel inverter based hybrid filter using spotted hyena optimizer. Computers and Electrical Engineering, 2021, 96, 107510.	3.0	12
88	Performance Analysis of WOFDM-WiMAX Integrating Diverse Wavelets for 5G Applications. Wireless Communications and Mobile Computing, 2021, 2021, 1-14.	0.8	11
89	Cloud-Based Fault Prediction Using IoT in Office Automation for Improvisation of Health of Employees. Journal of Healthcare Engineering, 2021, 2021, 1-13.	1.1	40
90	A Novel Blockchain and Bi-Linear Polynomial-Based QCP-ABE Framework for Privacy and Security over the Complex Cloud Data. Sensors, 2021, 21, 7300.	2.1	13

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91	The Architecture, Classification, and Unsolved Research Issues of Big Data extraction as well as decomposing the Internet of Vehicles (IoV). , 2021, , .		10
92	The Identification Nanoparticle Sensor Using Back Propagation Neural Network Optimized by Genetic Algorithm. Journal of Sensors, 2021, 2021, 1-12.	0.6	9
93	A Perspective Roadmap for IoMT-Based Early Detection and Care of the Neural Disorder, Dementia. Journal of Healthcare Engineering, 2021, 2021, 1-11.	1.1	28
94	Requirements for the Optimal Design for the Metasystematic Sustainability of Digital Double-Form Systems. Mathematical Problems in Engineering, 2021, 2021, 1-10.	0.6	14
95	A Personalized Eccentric Cyber-Physical System Architecture for Smart Healthcare. Security and Communication Networks, 2021, 2021, 1-36.	1.0	10
96	Computer Vision-Enabled Character Recognition of Hand Gestures for Patients with Hearing and Speaking Disability. Mobile Information Systems, 2021, 2021, 1-10.	0.4	19
97	Multimedia Concepts on Object Detection and Recognition with F1 Car Simulation Using Convolutional Layers. Wireless Communications and Mobile Computing, 2021, 2021, 1-21.	0.8	9
98	Denial-of-Service Attack Detection over IPv6 Network Based on KNN Algorithm. Wireless Communications and Mobile Computing, 2021, 2021, 1-6.	0.8	18
99	MOSHEPO: a hybrid multi-objective approach to solve economic load dispatch and micro grid problems. Applied Intelligence, 2020, 50, 119-137.	3.3	82
100	MOEPO: A novel Multi-objective Emperor Penguin Optimizer for global optimization: Special application in ranking of cloud service providers. Engineering Applications of Artificial Intelligence, 2020, 96, 104008.	4.3	46
101	A Spring Search Algorithm Applied to Engineering Optimization Problems. Applied Sciences (Switzerland), 2020, 10, 6173.	1.3	105
102	DM: Dehghani Method for Modifying Optimization Algorithms. Applied Sciences (Switzerland), 2020, 10, 7683.	1.3	28
103	MoSSE: a novel hybrid multi-objective meta-heuristic algorithm for engineering design problems. Soft Computing, 2020, 24, 18379-18398.	2.1	37
104	Tunicate Swarm Algorithm: A new bio-inspired based metaheuristic paradigm for global optimization. Engineering Applications of Artificial Intelligence, 2020, 90, 103541.	4.3	738
105	Darts Game Optimizer: A New Optimization Technique Based on Darts Game. International Journal of Intelligent Engineering and Systems, 2020, 13, 286-294.	0.8	47
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107	Deep Convolution Neural Network Approach for Defect Inspection of Textured Surfaces. Journal of the Institute of Electronics and Computer, 2020, 2, 28-38.	2.7	49
108	Spotted Hyena Optimizer for Solving Complex and Non-linear Constrained Engineering Problems. Advances in Intelligent Systems and Computing, 2019, , 857-867.	0.5	56

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109	A Review on Search-Based Tools and Techniques to Identify Bad Code Smells in Object-Oriented Systems. Advances in Intelligent Systems and Computing, 2019, , 909-921.	0.5	41
110	A hybrid fuzzy quantum time series and linear programming model: Special application on TAIEX index dataset. Modern Physics Letters A, 2019, 34, 1950201.	0.5	22
111	DHIMAN: A novel algorithm for economic Dispatch problem based on optimization metHod usIng Monte Carlo simulation and Astrophysics coNcepts. Modern Physics Letters A, 2019, 34, 1950032.	0.5	22
112	KnRVEA: A hybrid evolutionary algorithm based on knee points and reference vector adaptation strategies for many-objective optimization. Applied Intelligence, 2019, 49, 2434-2460.	3.3	55
113	STOA: A bio-inspired based optimization algorithm for industrial engineering problems. Engineering Applications of Artificial Intelligence, 2019, 82, 148-174.	4.3	349
114	HKn-RVEA: a novel many-objective evolutionary algorithm for car side impact bar crashworthiness problem. International Journal of Vehicle Design, 2019, 80, 257.	0.1	24
115	Seagull optimization algorithm: Theory and its applications for large-scale industrial engineering problems. Knowledge-Based Systems, 2019, 165, 169-196.	4.0	720
116	A Hybrid Algorithm Based on Particle Swarm and Spotted Hyena Optimizer forÂGlobal Optimization. Advances in Intelligent Systems and Computing, 2019, , 599-615.	0.5	53
117	HKn-RVEA: a novel many-objective evolutionary algorithm for car side impact bar crashworthiness problem. International Journal of Vehicle Design, 2019, 80, 257.	0.1	3
118	Multi-objective spotted hyena optimizer: A Multi-objective optimization algorithm for engineering problems. Knowledge-Based Systems, 2018, 150, 175-197.	4.0	190
119	Design of a novel energy efficient routing framework for Wireless Nanosensor Networks. , 2018, , .		17
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121	Optimizing the Design of Airfoil and Optical Buffer Problems Using Spotted Hyena Optimizer. Designs, 2018, 2, 28.	1.3	67
122	ED-SHO: A framework for solving nonlinear economic load power dispatch problem using spotted hyena optimizer. Modern Physics Letters A, 2018, 33, 1850239.	0.5	51
123	A quantum method for dynamic nonlinear programming technique using SchrÃ¶dinger equation and Monte Carlo approach. Modern Physics Letters B, 2018, 32, 1850374.	1.0	43
124	A quantum approach for time series data based on graph and SchrÃ¶dinger equations methods. Modern Physics Letters A, 2018, 33, 1850208.	0.5	47
125	A four-way decision-making system for the Indian summer monsoon rainfall. Modern Physics Letters B, 2018, 32, 1850304.	1.0	38
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127	Uncertainty representation using fuzzy-entropy approach: Special application in remotely sensed high-resolution satellite images (RSHRSIs). Applied Soft Computing Journal, 2018, 72, 121-139.	4.1	72
128	Emperor penguin optimizer: A bio-inspired algorithm for engineering problems. Knowledge-Based Systems, 2018, 159, 20-50.	4.0	558
129	Spotted hyena optimizer: A novel bio-inspired based metaheuristic technique for engineering applications. Advances in Engineering Software, 2017, 114, 48-70.	1.8	773
130	Spotted Hyena Optimizer for Solving Engineering Design Problems. , 2017, , .		64
131	An Analysis of Modeling and Optimization Production Cost Through Fuzzy Linear Programming Problem with Symmetric and Right Angle Triangular Fuzzy Number. Advances in Intelligent Systems and Computing, 2017, , 197-211.	0.5	37
132	System-Level Power Management Using Online Learning. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2009, 28, 676-689.	1.9	73
133	Dynamic voltage frequency scaling for multi-tasking systems using online learning. , 2007, , .		104
134	Dynamic Power Management Using Machine Learning. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2006, , .	0.0	17
135	An Innovative Approach for Face Recognition Using Raspberry Pi. Artificial Intelligence Evolution, 0, , 102-107.	0.0	9
136	An improved exponential metric space approach for <scp>C-mean</scp> clustering analysing. Expert Systems, 0, , e12896.	2.9	8