

List of Publications by Year in descending order

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105
papers

7,342
citations

66343

42
h-index

60623

81
g-index

113
all docs

113
docs citations

113
times ranked

5128
citing authors

#	ARTICLE	IF	CITATIONS
1	Secure Medical Data Transmission Model for IoT-Based Healthcare Systems. IEEE Access, 2018, 6, 20596-20608.	4.2	427
2	Feature selection based on artificial bee colony and gradient boosting decision tree. Applied Soft Computing Journal, 2019, 74, 634-642.	7.2	384
3	The impact of the hybrid platform of internet of things and cloud computing on healthcare systems: opportunities, challenges, and open problems. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 4151-4166.	4.9	279
4	A hybrid model of Internet of Things and cloud computing to manage big data in health services applications. Future Generation Computer Systems, 2018, 86, 1383-1394.	7.5	260
5	Genetic algorithm based model for optimizing bank lending decisions. Expert Systems With Applications, 2017, 80, 75-82.	7.6	199
6	Secure and Robust Fragile Watermarking Scheme for Medical Images. IEEE Access, 2018, 6, 10269-10278.	4.2	189
7	Bezier Curve Based Path Planning in a Dynamic Field using Modified Genetic Algorithm. Journal of Computational Science, 2018, 25, 339-350.	2.9	185
8	A Genetic Algorithm-Based, Dynamic Clustering Method Towards Improved WSN Longevity. Journal of Network and Systems Management, 2017, 25, 21-46.	4.9	180
9	Multi-layer security of medical data through watermarking and chaotic encryption for tele-health applications. Multimedia Tools and Applications, 2019, 78, 3457-3470.	3.9	180
10	A machine learning model for improving healthcare services on cloud computing environment. Measurement: Journal of the International Measurement Confederation, 2018, 119, 117-128.	5.0	171
11	Intelligent Bézier curve-based path planning model using Chaotic Particle Swarm Optimization algorithm. Cluster Computing, 2019, 22, 4745-4766.	5.0	161
12	Balancing Energy Consumption in Heterogeneous Wireless Sensor Networks Using Genetic Algorithm. IEEE Communications Letters, 2015, 19, 2194-2197.	4.1	158
13	Optimal bilateral filter and Convolutional Neural Network based denoising method of medical image measurements. Measurement: Journal of the International Measurement Confederation, 2019, 143, 125-135.	5.0	147
14	A Hybrid COVID-19 Detection Model Using an Improved Marine Predators Algorithm and a Ranking-Based Diversity Reduction Strategy. IEEE Access, 2020, 8, 79521-79540.	4.2	138
15	Optimizing K-coverage of mobile WSNs. Expert Systems With Applications, 2018, 92, 142-153.	7.6	137
16	Extended Genetic Algorithm for solving open-shop scheduling problem. Soft Computing, 2019, 23, 5099-5116.	3.6	133
17	Hybridization of firefly and Improved Multi-Objective Particle Swarm Optimization algorithm for energy efficient load balancing in Cloud Computing environments. Journal of Parallel and Distributed Computing, 2020, 142, 36-45.	4.1	131
18	An efficient Swarm-Intelligence approach for task scheduling in cloud-based internet of things applications. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 3469-3479.	4.9	129

#	ARTICLE	IF	CITATIONS
19	Raspberry Pi assisted face recognition framework for enhanced law-enforcement services in smart cities. <i>Future Generation Computer Systems</i> , 2020, 108, 995-1007.	7.5	127
20	Trust-based secure clustering in WSN-based intelligent transportation systems. <i>Computer Networks</i> , 2018, 146, 151-158.	5.1	121
21	Deep learning model for real-time image compression in Internet of Underwater Things (IoUT). <i>Journal of Real-Time Image Processing</i> , 2020, 17, 2097-2111.	3.5	119
22	Challenges and recommended technologies for the industrial internet of things: A comprehensive review. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 151, 107198.	5.0	118
23	K-Coverage Model Based on Genetic Algorithm to Extend WSN Lifetime. , 2017, 1, 1-4.		117
24	A multi-objective transportation model under neutrosophic environment. <i>Computers and Electrical Engineering</i> , 2018, 69, 705-719.	4.8	110
25	A new binary salp swarm algorithm: development and application for optimization tasks. <i>Neural Computing and Applications</i> , 2019, 31, 1641-1663.	5.6	104
26	Reliable Data Transmission Model for Mobile Ad Hoc Network Using Signcrypton Technique. <i>IEEE Transactions on Reliability</i> , 2020, 69, 1077-1086.	4.6	104
27	Self-maintenance model for Wireless Sensor Networks. <i>Computers and Electrical Engineering</i> , 2018, 70, 799-812.	4.8	102
28	An energy efficient encryption method for secure dynamic WSN. <i>Security and Communication Networks</i> , 2016, 9, 2024-2031.	1.5	99
29	Recognizing human activity in mobile crowdsensing environment using optimized k-NN algorithm. <i>Expert Systems With Applications</i> , 2018, 107, 32-44.	7.6	98
30	Optimizing robot path in dynamic environments using Genetic Algorithm and Bezier Curve. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017, 33, 2305-2316.	1.4	97
31	An Efficient Optimal Key Based Chaos Function for Medical Image Security. <i>IEEE Access</i> , 2018, 6, 77145-77154.	4.2	97
32	Deep learning with LSTM based distributed data mining model for energy efficient wireless sensor networks. <i>Physical Communication</i> , 2020, 40, 101097.	2.1	97
33	Energy-Aware Marine Predators Algorithm for Task Scheduling in IoT-Based Fog Computing Applications. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 5068-5076.	11.3	96
34	A secure data routing schema for WSN using Elliptic Curve Cryptography and homomorphic encryption. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2016, 28, 262-275.	3.9	85
35	Automatic removal of complex shadows from indoor videos using transfer learning and dynamic thresholding. <i>Computers and Electrical Engineering</i> , 2018, 70, 813-825.	4.8	75
36	Highly Reliable and Low-Complexity Image Compression Scheme Using Neighborhood Correlation Sequence Algorithm in WSN. <i>IEEE Transactions on Reliability</i> , 2020, 69, 1398-1423.	4.6	74

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37	Dynamic Multi-hop Clustering in a Wireless Sensor Network: Performance Improvement. <i>Wireless Personal Communications</i> , 2017, 95, 3733-3753.	2.7	70
38	Computer network security evaluation simulation model based on neural network. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 37, 3197-3204.	1.4	62
39	Region-based scalable smart system for anomaly detection in pedestrian walkways. <i>Computers and Electrical Engineering</i> , 2019, 75, 146-160.	4.8	59
40	Optimal feature level fusion based ANFIS classifier for brain MRI image classification. <i>Concurrency Computation Practice and Experience</i> , 2020, 32, e4887.	2.2	52
41	A hybrid crow search algorithm based on rough searching scheme for solving engineering optimization problems. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , 1.	4.9	49
42	An enhanced whale optimization algorithm for vehicular communication networks. <i>International Journal of Communication Systems</i> , 2022, 35, e3953.	2.5	49
43	Hybrid quantum-classical convolutional neural network model for COVID-19 prediction using chest X-ray images. <i>Journal of Computational Design and Engineering</i> , 2022, 9, 343-363.	3.1	49
44	Energy efficient collaborative proactive routing protocol for Wireless Sensor Network. <i>Computer Networks</i> , 2018, 142, 154-167.	5.1	46
45	An Optimal Least Square Support Vector Machine Based Earnings Prediction of Blockchain Financial Products. <i>IEEE Access</i> , 2020, 8, 120321-120330.	4.2	46
46	NoSQL Injection Attack Detection in Web Applications Using RESTful Service. <i>Programming and Computer Software</i> , 2018, 44, 435-444.	0.9	44
47	Prediction of biochar yield using adaptive neuro-fuzzy inference system with particle swarm optimization. , 2017, , .		43
48	An efficient <scp>radix trie</scp>-based semantic visual indexing model for <scp>large-scale</scp> image retrieval in cloud environment. <i>Software - Practice and Experience</i> , 2021, 51, 489-502.	3.6	43
49	Security and Privacy Issues in Medical Internet of Things: Overview, Countermeasures, Challenges and Future Directions. <i>Sustainability</i> , 2021, 13, 11645.	3.2	40
50	Extending self-organizing network availability using genetic algorithm. , 2014, , .		39
51	Loan portfolio optimization using Genetic Algorithm: A case of credit constraints. , 2016, , .		39
52	Data Security and Challenges in Smart Cities. <i>Lecture Notes in Intelligent Transportation and Infrastructure</i> , 2019, , 117-142.	0.5	39
53	EoT-driven hybrid ambient assisted living framework with naïve Bayes-firefly algorithm. <i>Neural Computing and Applications</i> , 2019, 31, 1275-1300.	5.6	36
54	Energy Efficient Optimal Routing for Communication in VANETs via Clustering Model. <i>Studies in Systems, Decision and Control</i> , 2020, , 1-14.	1.0	34

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55	Social-spider optimization algorithm for improving ANFIS to predict biochar yield. , 2017, , .		33
56	Energy efficient clustering with disease diagnosis model for IoT based sustainable healthcare systems. Sustainable Computing: Informatics and Systems, 2020, 28, 100453.	2.2	33
57	An efficient heap-based optimization algorithm for parameters identification of proton exchange membrane fuel cells model: Analysis and case studies. International Journal of Hydrogen Energy, 2021, 46, 11908-11925.	7.1	33
58	Unsupervised Model for Detecting Plagiarism in Internet-based Handwritten Arabic Documents. Journal of Organizational and End User Computing, 2020, 32, 42-66.	2.9	32
59	Collaborative task assignment of interconnected, affective robots towards autonomous healthcare assistant. Future Generation Computer Systems, 2019, 92, 241-251.	7.5	31
60	Secure Automated Forensic Investigation for Sustainable Critical Infrastructures Compliant with Green Computing Requirements. IEEE Transactions on Sustainable Computing, 2020, 5, 174-191.	3.1	30
61	Modelling the spice parameters of SOI MOSFET using a combinational algorithm. Cluster Computing, 2019, 22, 4683-4692.	5.0	27
62	Exploring New Vista of intelligent collaborative filtering: A restaurant recommendation paradigm. Journal of Computational Science, 2018, 27, 168-182.	2.9	24
63	Hybrid Rough Neural Network Model for Signature Recognition. Studies in Computational Intelligence, 2018, , 295-318.	0.9	24
64	Secure Data Transmission in WSN: An Overview. Studies in Systems, Decision and Control, 2019, , 115-143.	1.0	23
65	Application of discrete transforms with selective coefficients for blind image watermarking. Transactions on Emerging Telecommunications Technologies, 2021, 32, e3771.	3.9	22
66	A secure real-time internet of medical smart things (IOMST). Computers and Electrical Engineering, 2018, 72, 455-467.	4.8	21
67	Deep Learning Framework for Cyber Threat Situational Awareness Based on Email and URL Data Analysis. Advanced Sciences and Technologies for Security Applications, 2019, , 87-124.	0.5	21
68	Multimodal Biometric Personal Identification and Verification. Studies in Computational Intelligence, 2018, , 249-276.	0.9	20
69	A novel PSO algorithm for dynamic wireless sensor network multiobjective optimization problem. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3523.	3.9	20
70	Intelligent Algorithms for Optimal Selection of Virtual Machine in Cloud Environment, Towards Enhance Healthcare Services. Advances in Intelligent Systems and Computing, 2018, , 289-298.	0.6	20
71	An Efficient Image Encryption Scheme Based on Signcryption Technique with Adaptive Elephant Herding Optimization. Advanced Sciences and Technologies for Security Applications, 2019, , 31-42.	0.5	19
72	Dynamic Wireless Sensor Networks. Studies in Systems, Decision and Control, 2019, , .	1.0	18

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73	Real-time detection of cole diseases and insect pests in wireless sensor networks. Journal of Intelligent and Fuzzy Systems, 2019, 37, 3513-3524.	1.4	18
74	An Empirical Analysis of User Behavior for P2P IPTV Workloads. Advances in Intelligent Systems and Computing, 2018, , 252-263.	0.6	14
75	Computer aided detection of mammographic mass using exact Gaussianâ€“Hermite moments. Journal of Ambient Intelligence and Humanized Computing, 2024, 15, 1139-1147.	4.9	14
76	Expand Mobile WSN Coverage in Harsh Environments. Studies in Systems, Decision and Control, 2019, , 29-52.	1.0	12
77	Modeling neutrosophic variables based on particle swarm optimization and information theory measures for forest fires. Journal of Supercomputing, 2020, 76, 2339-2356.	3.6	12
78	Autonomic Self-healing Approach to Eliminate Hardware Faults in Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2018, , 151-160.	0.6	12
79	Weakly Supervised Deep Learning forÂObjects Detection from Images. Studies in Distributed Intelligence, 2020, , 231-242.	0.6	11
80	Efficient Schemes for Playout Latency Reduction in P2P-VoD Systems. Studies in Computational Intelligence, 2018, , 477-495.	0.9	11
81	Extending Homogeneous WSN Lifetime in Dynamic Environments Using the Clustering Model. Studies in Systems, Decision and Control, 2019, , 73-92.	1.0	10
82	Return Rate Prediction in Blockchain Financial Products Using Deep Learning. Sustainability, 2021, 13, 11901.	3.2	10
83	Intelligent systems based on loud computing for healthcare services: a survey. International Journal of Computational Intelligence Studies, 2017, 6, 157.	0.3	9
84	Hierarchical and Clustering WSN Models: Their Requirements for Complex Applications. Studies in Systems, Decision and Control, 2019, , 53-71.	1.0	8
85	Mobile Object Tracking in Wide Environments Using WSNs. Studies in Systems, Decision and Control, 2019, , 3-28.	1.0	8
86	Improved DGA Domain Names Detection and Categorization Using Deep Learning Architectures with Classical Machine Learning Algorithms. Advanced Sciences and Technologies for Security Applications, 2019, , 161-192.	0.5	7
87	Optimizing Cluster Head Selection in WSN to Prolong Its Existence. Studies in Systems, Decision and Control, 2019, , 93-111.	1.0	6
88	Parameter identification of two dimensional digital filters using electro-magnetism optimization. Multimedia Tools and Applications, 2020, 79, 5005-5022.	3.9	6
89	An Encryption Model for Data Processing in WSN. Studies in Systems, Decision and Control, 2019, , 145-169.	1.0	5
90	Self-organizing single-hop wireless sensor network using a genetic algorithm: Longer lifetimes and maximal throughputs. , 2017, , .		4

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91	An Optimal Singular Value Decomposition with LWC-RECTANGLE Block Cipher Based Digital Image Watermarking in Wireless Sensor Networks. Lecture Notes in Electrical Engineering, 2019, , 83-98.	0.4	4
92	An Optimal Lightweight Cryptographic Hash Function for Secure Image Transmission in Wireless Sensor Networks. Lecture Notes in Electrical Engineering, 2019, , 49-64.	0.4	4
93	Kernel learning for blind image recovery from motion blur. Multimedia Tools and Applications, 2020, 79, 21873-21887.	3.9	4
94	An Efficient Scheme for Video Delivery in Wireless Networks. Studies in Big Data, 2018, , 207-225.	1.1	3
95	Using Wireless Sensor to Acquire Live Data on a SCADA System, Towards Monitoring File Integrity. Studies in Systems, Decision and Control, 2019, , 171-191.	1.0	2
96	Optimal Lightweight Encryption Based Secret Share Creation Scheme for Digital Images in Wireless Sensor Networks. Lecture Notes in Electrical Engineering, 2019, , 115-129.	0.4	1
97	An Optimal Lightweight RECTANGLE Block Cipher for Secure Image Transmission in Wireless Sensor Networks. Lecture Notes in Electrical Engineering, 2019, , 33-47.	0.4	1
98	Multiple Share Creation with Optimal Hash Function for Image Security in WSN Aid of OGWO. Lecture Notes in Electrical Engineering, 2019, , 131-146.	0.4	1
99	An Optimal Haar Wavelet with Light Weight Cryptography Based Secret Data Hiding on Digital Images in Wireless Sensor Networks. Lecture Notes in Electrical Engineering, 2019, , 65-81.	0.4	1
100	An Optimal Light Weight Cryptographyâ€”SIMON Block Cipher for Secure Image Transmission in Wireless Sensor Networks. Lecture Notes in Electrical Engineering, 2019, , 17-32.	0.4	1
101	Optimal Data Hiding Key in Encrypted Images Based Digital Image Security in Wireless Sensor Networks. Lecture Notes in Electrical Engineering, 2019, , 99-113.	0.4	0
102	Towards automated SCADA forensic investigation: challenges, opportunities and promising paradigms. International Journal of Information and Computer Security, 2020, 13, 268.	0.2	0
103	Proposal for a Quantum-Based Memory for Storing Classical Information and the Connection Between Molecular Dynamics Simulations and the Landauerâ€™s Principle. Studies in Big Data, 2018, , 291-316.	1.1	0
104	Optimal Stream Encryption for Multiple Shares of Images by Improved Cuckoo Search Model. Lecture Notes in Electrical Engineering, 2019, , 147-161.	0.4	0
105	Intelligent Multimedia Applications in Wavelet Domain: New Trends and Future Research Directions. , 2020, , 137-144.		0