Gunasekaran Manogaran

List of Publications by Year
in descending order

123 papers	8,900 citations	34016 52 h-index	48187 88 g-index
139 all docs	139 docs citations	139 times ranked	6615 citing authors

#	Article	IF	Citations
1	A hybrid deep transfer learning model with machine learning methods for face mask detection in the era of the COVID-19 pandemic. Measurement: Journal of the International Measurement Confederation, 2021, 167, 108288.	2.5	514
2	A new architecture of Internet of Things and big data ecosystem for secured smart healthcare monitoring and alerting system. Future Generation Computer Systems, 2018, 82, 375-387.	4.9	392
3	Fighting against COVID-19: A novel deep learning model based on YOLO-v2 with ResNet-50 for medical face mask detection. Sustainable Cities and Society, 2021, 65, 102600.	5.1	301
4	A study on medical Internet of Things and Big Data in personalized healthcare system. Health Information Science and Systems, 2018, 6, 14.	3.4	220
5	Wearable sensor devices for early detection of Alzheimer disease using dynamic time warping algorithm. Cluster Computing, 2018, 21, 681-690.	3.5	188
6	Trustworthiness in Industrial IoT Systems Based on Artificial Intelligence. IEEE Transactions on Industrial Informatics, 2021, 17, 1496-1504.	7.2	186
7	Internet of things in smart education environment: Supportive framework in the decision€making process. Concurrency Computation Practice and Experience, 2019, 31, e4515.	1.4	180
8	A hybrid approach of neutrosophic sets and DEMATEL method for developing supplier selection criteria. Design Automation for Embedded Systems, 2018, 22, 257-278.	0.7	177
9	Machine Learning Based Big Data Processing Framework for Cancer Diagnosis Using Hidden Markov Model and GM Clustering. Wireless Personal Communications, 2018, 102, 2099-2116.	1.8	175
10	Wearable IoT Smart-Log Patch: An Edge Computing-Based Bayesian Deep Learning Network System for Multi Access Physical Monitoring System. Sensors, 2019, 19, 3030.	2.1	172
11	A deep transfer learning model with classical data augmentation and CGAN to detect COVID-19 from chest CT radiography digital images. Neural Computing and Applications, 2020, , 1-13.	3.2	153
12	A Novel Intelligent Medical Decision Support Model Based on Soft Computing and IoT. IEEE Internet of Things Journal, 2020, 7, 4160-4170.	5.5	145
13	Neural Network Based Brain Tumor Detection Using Wireless Infrared Imaging Sensor. IEEE Access, 2019, 7, 5577-5588.	2.6	143
14	IOT based wearable sensor for diseases prediction and symptom analysis in healthcare sector. Peer-to-Peer Networking and Applications, 2020, 13, 2123-2134.	2.6	141
15	Machine Learning Approach-Based Gamma Distribution for Brain Tumor Detection and Data Sample Imbalance Analysis. IEEE Access, 2019, 7, 12-19.	2.6	124
16	Ant colony optimization algorithm with Internet of Vehicles for intelligent traffic control system. Computer Networks, 2018, 144, 154-162.	3.2	123
17	A Group Decision Making Framework Based on Neutrosophic TOPSIS Approach for Smart Medical Device Selection. Journal of Medical Systems, 2019, 43, 38.	2.2	113
18	Research on Key Technologies of Smart Campus Teaching Platform Based on 5G Network. IEEE Access, 2019, 7, 20664-20675.	2.6	105

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19	Human Lesion Detection Method Based on Image Information and Brain Signal. IEEE Access, 2019, 7, 11533-11542.	2.6	104
20	An efficient anonymous mutual authentication technique for providing secure communication in mobile cloud computing for smart city applications. Sustainable Cities and Society, 2019, 49, 101522.	5.1	103
21	Spatial cumulative sum algorithm with big data analytics for climate change detection. Computers and Electrical Engineering, 2018, 65, 207-221.	3.0	102
22	Brain Image Segmentation Based on FCM Clustering Algorithm and Rough Set. IEEE Access, 2019, 7, 12386-12396.	2.6	99
23	A survey of big data architectures and machine learning algorithms in healthcare. International Journal of Biomedical Engineering and Technology, 2017, 25, 182.	0.2	95
24	Real time violence detection framework for football stadium comprising of big data analysis and deep learning through bidirectional LSTM. Computer Networks, 2019, 151, 191-200.	3.2	93
25	Efficient Traceability Systems of Steel Products Using Blockchain-Based Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2020, 16, 6004-6012.	7.2	93
26	MetaCloudDataStorage Architecture for Big Data Security in Cloud Computing. Procedia Computer Science, 2016, 87, 128-133.	1.2	87
27	Big Data Security Intelligence for Healthcare Industry 4.0. Springer Series in Advanced Manufacturing, 2017, , 103-126.	0.2	87
28	Big Data Knowledge System in Healthcare. Studies in Big Data, 2017, , 133-157.	0.8	83
29	Big Data Analytics in Healthcare Internet of Things. Understanding Complex Systems, 2017, , 263-284.	0.3	82
30	A novel method for solving the fully neutrosophic linear programming problems. Neural Computing and Applications, 2019, 31, 1595-1605.	3.2	71
31	FDM: Fuzzy-Optimized Data Management Technique for Improving Big Data Analytics. IEEE Transactions on Fuzzy Systems, 2021, 29, 177-185.	6.5	71
32	Centralized Fog Computing Security Platform for IoT and Cloud in Healthcare System. Advances in Data Mining and Database Management Book Series, 2018, , 141-154.	0.4	70
33	Visual analysis of geospatial habitat suitability model based on inverse distance weighting with paired comparison analysis. Multimedia Tools and Applications, 2018, 77, 17573-17593.	2.6	69
34	An adaptive decision based kriging interpolation algorithm for the removal of high density salt and pepper noise in images. Computers and Electrical Engineering, 2018, 70, 447-461.	3.0	67
35	Spatial big data analytics of influenza epidemic in Vellore, India. , 2014, 2014, 19-24.		65
36	Fog-assisted personalized healthcare-support system for remote patients with diabetes. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 3747-3760.	3.3	65

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37	Blockchain based integrated security measure for reliable service delegation in 6G communication environment. Computer Communications, 2020, 161, 248-256.	3.1	65
38	An enhanced graph-based semi-supervised learning algorithm to detect fake users on Twitter. Journal of Supercomputing, 2019, 75, 6085-6105.	2.4	64
39	Intelligent security algorithm for UNICODE data privacy and security in IOT. Service Oriented Computing and Applications, 2019, 13, 3-15.	1.3	63
40	Emerging trends, issues, and challenges in Internet of Medical Things and wireless networks. Personal and Ubiquitous Computing, 2018, 22, 879-882.	1.9	62
41	HIoTPOT: Surveillance on IoT Devices against Recent Threats. Wireless Personal Communications, 2018, 103, 1179-1194.	1.8	61
42	Centralized Fog Computing Security Platform for IoT and Cloud in Healthcare System. , 0, , 365-378.		60
43	Disease Surveillance System for Big Climate Data Processing and Dengue Transmission. International Journal of Ambient Computing and Intelligence, 2017, 8, 88-105.	0.8	57
44	A novel group decision making model based on neutrosophic sets for heart disease diagnosis. Multimedia Tools and Applications, 2020, 79, 9977-10002.	2.6	56
45	Internet of Things with Maximal Overlap Discrete Wavelet Transform for Remote Health Monitoring of Abnormal ECG Signals. Journal of Medical Systems, 2018, 42, 228.	2.2	55
46	Machine Learning Assisted Information Management Scheme in Service Concentrated IoT. IEEE Transactions on Industrial Informatics, 2021, 17, 2871-2879.	7.2	54
47	Internet of things forensic data analysis using machine learning to identify roots of data scavenging. Future Generation Computer Systems, 2021, 115, 756-768.	4.9	54
48	A Gaussian process based big data processing framework in cluster computing environment. Cluster Computing, 2018, 21, 189-204.	3.5	52
49	D2D Communication Mode Selection and Resource Optimization Algorithm With Optimal Throughput in 5G Network. IEEE Access, 2019, 7, 25263-25273.	2.6	52
50	Health data analytics using scalable logistic regression with stochastic gradient descent. International Journal of Advanced Intelligence Paradigms, 2018, 10, 118.	0.2	49
51	Blockchain Assisted Secure Data Sharing Model for Internet of Things Based Smart Industries. IEEE Transactions on Reliability, 2022, 71, 348-358.	3.5	46
52	ISOF: Information Scheduling and Optimization Framework for Improving the Performance of Agriculture Systems Aided by Industry 4.0. IEEE Internet of Things Journal, 2021, 8, 3120-3129.	5.5	46
53	Assessment of Vaccination Strategies Using Fuzzy Multi-criteria Decision Making. Advances in Intelligent Systems and Computing, 2015, , 195-208.	0.5	44
54	In-Mapper combiner based MapReduce algorithm for processing of big climate data. Future Generation Computer Systems, 2018, 86, 433-445.	4.9	42

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55	EoT-driven hybrid ambient assisted living framework with naÃ¯ve Bayesâ€"firefly algorithm. Neural Computing and Applications, 2019, 31, 1275-1300.	3.2	36
56	An IoT-based E-business model of intelligent vegetable greenhouses and its key operations management issues. Neural Computing and Applications, 2020, 32, 15341-15356.	3.2	36
57	Artificial Intelligence and Blockchain-Assisted Offloading Approach for Data Availability Maximization in Edge Nodes. IEEE Transactions on Vehicular Technology, 2021, 70, 2404-2412.	3.9	36
58	Security situation assessment for massive MIMO systems for 5G communications. Future Generation Computer Systems, 2019, 98, 25-34.	4.9	35
59	Advanced energy consumption system for smart farm based on reactive energy utilization technologies. Environmental Impact Assessment Review, 2021, 86, 106496.	4.4	35
60	Ant colony optimizationâ€induced route optimization for enhancing driving range of electric vehicles. International Journal of Communication Systems, 2022, 35, e3964.	1.6	34
61	Hybrid Location-based Recommender System for Mobility and Travel Planning. Mobile Networks and Applications, 2019, 24, 1226-1239.	2.2	34
62	Human-Computer Interaction With Big Data Analytics. Advances in Human and Social Aspects of Technology Book Series, 2018, , 1-22.	0.3	34
63	Creating Collision-Free Communication in IoT with 6G Using Multiple Machine Access Learning Collision Avoidance Protocol. Mobile Networks and Applications, 2021, 26, 969-980.	2.2	33
64	A comprehensive review of quadratic assignment problem: variants, hybrids and applications. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	32
65	2-Levels of clustering strategy to detect and locate copy-move forgery in digital images. Multimedia Tools and Applications, 2020, 79, 5419-5437.	2.6	32
66	Perception, acceptance and willingness of older adults in Malaysia towards online shopping: a study using the UTAUT and IRT models. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	32
67	CDP-UA: Cognitive Data Processing Method Wearable Sensor Data Uncertainty Analysis in the Internet of Things Assisted Smart Medical Healthcare Systems. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3691-3699.	3.9	32
68	Big Data Security Framework for Distributed Cloud Data Centers. Advances in Information Security, Privacy, and Ethics Book Series, 2017, , 288-310.	0.4	32
69	A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things. IEEE Internet of Things Journal, 2021, 8, 3360-3368.	5.5	30
70	Secure Disintegration Protocol for Privacy Preserving Cloud Storage. Wireless Personal Communications, 2018, 103, 1161-1177.	1.8	29
71	Research on Underwater Wireless Sensor Network and MAC Protocol and Location Algorithm. IEEE Access, 2019, 7, 56606-56616.	2.6	29
72	Prostate cancer classification from prostate biomedical data using ant rough set algorithm with radial trained extreme learning neural network. Health and Technology, 2020, 10, 157-165.	2.1	26

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73	Information Granulation-Based Community Detection for Social Networks. IEEE Transactions on Computational Social Systems, 2021, 8, 122-133.	3.2	24
74	Hybrid bio-inspired user clustering for the generation of diversified recommendations. Neural Computing and Applications, 2020, 32, 2487-2506.	3.2	22
75	Threshold segmentation based multi-layer analysis for detecting diabetic retinopathy using convolution neural network. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	21
76	Multi-Variate Data Fusion Technique for Reducing Sensor Errors in Intelligent Transportation Systems. IEEE Sensors Journal, 2021, 21, 15564-15573.	2.4	20
77	Smart Sensing Based Functional Control for Reducing Uncertainties in Agricultural Farm Data Analysis. IEEE Sensors Journal, 2021, 21, 17469-17478.	2.4	20
78	Novel probabilistic resource migration algorithm for cross-cloud live migration of virtual machines in public cloud. Journal of Supercomputing, 2019, 75, 5848-5865.	2.4	19
79	On the Stabilizability for a Class of Linear Time-Invariant Systems Under Uncertainty. Circuits, Systems, and Signal Processing, 2020, 39, 919-960.	1.2	17
80	AI-Assisted Service Virtualization and Flow Management Framework for 6G-Enabled Cloud-Software-Defined Network-Based IoT. IEEE Internet of Things Journal, 2022, 9, 14644-14654.	5.5	17
81	Parametric Model to Predict H1N1 Influenza in Vellore District, Tamil Nadu, India. Handbook of Statistics, 2017, 37, 301-316.	0.4	16
82	A deep learning semantic segmentation architecture for <scp>COVID</scp>â€19 lesions discovery in limited chest <scp>CT</scp> datasets. Expert Systems, 2022, 39, e12742.	2.9	16
83	Stealthy attack detection in multi-channel multi-radio wireless networks. Multimedia Tools and Applications, 2018, 77, 18503-18526.	2.6	15
84	A Study of the Neutrosophic Set Significance on Deep Transfer Learning Models: an Experimental Case on a Limited COVID-19 Chest X-ray Dataset. Cognitive Computation, 2021, , 1-10.	3.6	15
85	A deep learning model and machine learning methods for the classification of potential coronavirus treatments on a single human cell. Journal of Nanoparticle Research, 2020, 22, 313.	0.8	14
86	An Efficient Resource Allocation Scheme With Optimal Node Placement in IoT-Fog-Cloud Architecture. IEEE Sensors Journal, 2021, 21, 25106-25113.	2.4	14
87	Bio-medical and latent fingerprint enhancement and matching using advanced scalable soft computing models. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 3983-3995.	3.3	13
88	Conditional Support-Vector-Machine-Based Shared Adaptive Computing Model for Smart City Traffic Management. IEEE Transactions on Computational Social Systems, 2022, 9, 174-183.	3.2	13
89	Automatic diagnosis of cardiac arrhythmia in electrocardiograms via multigranulation computing. Applied Soft Computing Journal, 2019, 80, 400-413.	4.1	12
90	Feature based video stabilization based on boosted HAAR Cascade and representative point matching algorithm. Image and Vision Computing, 2020, 101, 103957.	2.7	12

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91	Information-Centric Content Management Framework for Software Defined Internet of Vehicles Towards Application Specific Services. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4541-4549.	4.7	12
92	Disease Surveillance System for Big Climate Data Processing and Dengue Transmission. , 0, , 427-446.		12
93	Special issue on machine learning applications for self-organized wireless sensor networks. Neural Computing and Applications, 2019, 31, 1-2.	3.2	10
94	Displacement-Aware Service Endowment Scheme for Improving Intelligent Transportation Systems Data Exchange. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22467-22477.	4.7	10
95	Architecture for Big Data Storage in Different Cloud Deployment Models. , 2021, , 178-208.		9
96	Ant-Inspired Recurrent Deep Learning Model for Improving the Service Flow of Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3654-3663.	4.7	9
97	Guest Editorial: 6G-Enabled Network in Box (NIB) for Industrial Applications and Services. IEEE Transactions on Industrial Informatics, 2021, 17, 7141-7144.	7.2	9
98	SECRECSY: A Secure Framework for Enhanced Privacy-Preserving Location Recommendations in Cloud Environment. Wireless Personal Communications, 2019, 108, 1869-1907.	1.8	8
99	Boosted Tree Classifier Algorithm Based Collaborative Computing Framework for Smart System. IEEE Transactions on Network Science and Engineering, 2022, 9, 1082-1090.	4.1	8
100	Design and Implementation of Networked Collaborative Service System for Brain Stroke Prevention and First Aid. IEEE Access, 2019, 7, 14825-14836.	2.6	7
101	Internet of Things for Electronic Markets. Electronic Markets, 2021, 31, 13-15.	4.4	7
102	Human-Computer Interaction With Big Data Analytics. , 2022, , 1578-1596.		7
103	Trust management for internet of things using cloud computing and security in smart cities. Cluster Computing, 2022, 25, 1765-1777.	3.5	7
104	Brain Image Segmentation Based on Multi-Weight Probability Map. IEEE Access, 2019, 7, 14736-14746.	2.6	6
105	Non-Recurrent Classification Learning Model for Drone Assisted Vehicular Ad-Hoc Network Communication in Smart Cities. IEEE Transactions on Network Science and Engineering, 2021, 8, 2792-2800.	4.1	6
106	Deep-Learning-Based Concurrent Resource Allocation Method for Improving the Service Response of 6G Network-in-Box Users in UAV. IEEE Internet of Things Journal, 2023, 10, 3130-3137.	5.5	6
107	A Vehicle-Consensus Information Exchange Scheme for Traffic Management in Vehicular Ad-Hoc Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19602-19612.	4.7	6
108	Introduction to the special issue on deep learning for remote sensing environments. European Journal of Remote Sensing, 2020, 53, 1-3.	1.7	5

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109	Special issue on recent advancements in machine learning algorithms for internet of things. Design Automation for Embedded Systems, 2018, 22, 199-200.	0.7	4
110	Special issue on machine learning algorithms for internet of things, fog computing and cloud computing. Computing (Vienna/New York), 2018, 100, 757-758.	3.2	3
111	Optimizing Resource and Service Allocations for IoT-Assisted Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 12877-12887.	4.7	3
112	Social Media for Social and Corporate Entrepreneurship. Entrepreneurship Research Journal, 2021, 11, 1-2.	0.8	2
113	Architecture for Big Data Storage in Different Cloud Deployment Models. Advances in Data Mining and Database Management Book Series, 2018, , 196-226.	0.4	2
114	Big Data Security Framework for Distributed Cloud Data Centers. , 2018, , 589-607.		2
115	ADC CF: Adaptive deep concatenation coder framework for visual question answering. Pattern Recognition Letters, 2021, 152, 348-355.	2.6	2
116	Optimal Energy-Centric Resource Allocation and Offloading Scheme for Green Internet of Things Using Machine Learning. ACM Transactions on Internet Technology, 2022, 22, 1-19.	3.0	2
117	An intelligent decision support system to prevent and control of dengue. Journal of Ambient Intelligence and Humanized Computing, 2018, , 1.	3.3	1
118	Emerging intelligent algorithms: challenges and applications. Neural Computing and Applications, 2019, 31, 1259-1262.	3.2	1
119	Editorial on â€œCognitive Computing for Humanâ€"Robot Interactionâ€. Complex & Intelligent Systems, 2021, 7, 1709.	4.0	1
120	Transfer Learning-Aided Collaborative Computational Method for Intelligent Transportation System Applications. IEEE Transactions on Green Communications and Networking, 2022, 6, 1355-1367.	3.5	1
121	Guest Editorial: Advanced Machine Learning Algorithms and Signal Processing. Circuits, Systems, and Signal Processing, 2020, 39, 515-521.	1.2	0
122	Intelligent autonomous cyber-physical systems and applications. Enterprise Information Systems, 2021, 15, 909-910.	3.3	0
123	GTSM--Graph-Transient Security Model for Intelligent Transportation System Information Exchange. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-10.	4.7	0