

Gonçalo Marques

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

2,741
citations

218592

26
h-index

214721

47
g-index

123
all docs

123
docs citations

123
times ranked

2094
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated medical diagnosis of COVID-19 through EfficientNet convolutional neural network. Applied Soft Computing Journal, 2020, 96, 106691.	4.1	223
2	A comprehensive review on indoor air quality monitoring systems for enhanced public health. Sustainable Environment Research, 2020, 30, .	2.1	147
3	Monitoring Indoor Air Quality for Enhanced Occupational Health. Journal of Medical Systems, 2017, 41, 23.	2.2	130
4	An Indoor Monitoring System for Ambient Assisted Living Based on Internet of Things Architecture. International Journal of Environmental Research and Public Health, 2016, 13, 1152.	1.2	124
5	Indoor Air Quality Assessment Using a CO2 Monitoring System Based on Internet of Things. Journal of Medical Systems, 2019, 43, 67.	2.2	115
6	Internet of Things Architectures, Technologies, Applications, Challenges, and Future Directions for Enhanced Living Environments and Healthcare Systems: A Review. Electronics (Switzerland), 2019, 8, 1081.	1.8	103
7	Indoor Air Quality Monitoring Systems Based on Internet of Things: A Systematic Review. International Journal of Environmental Research and Public Health, 2020, 17, 4942.	1.2	90
8	A System Based on the Internet of Things for Real-Time Particle Monitoring in Buildings. International Journal of Environmental Research and Public Health, 2018, 15, 821.	1.2	89
9	MAFC: Multi-Agent Fog Computing Model for Healthcare Critical Tasks Management. Sensors, 2020, 20, 1853.	2.1	81
10	A Cost-Effective Air Quality Supervision Solution for Enhanced Living Environments through the Internet of Things. Electronics (Switzerland), 2019, 8, 170.	1.8	69
11	A Research on the Classification and Applicability of the Mobile Health Applications. Journal of Personalized Medicine, 2020, 10, 11.	1.1	69
12	Wireless Body Area Networks: UWB Wearable Textile Antenna for Telemedicine and Mobile Health Systems. Micromachines, 2020, 11, 558.	1.4	68
13	Artificial intelligence for surface water quality monitoring and assessment: a systematic literature analysis. Modeling Earth Systems and Environment, 2021, 7, 669-681.	1.9	60
14	Internet of Things and Enhanced Living Environments: Measuring and Mapping Air Quality Using Cyber-physical Systems and Mobile Computing Technologies. Sensors, 2020, 20, 720.	2.1	57
15	Sensors for indoor air quality monitoring and assessment through Internet of Things: a systematic review. Environmental Monitoring and Assessment, 2021, 193, 66.	1.3	50
16	Impact of COVID-19 on the psychological health of university students in Spain and their attitudes toward Mobile mental health solutions. International Journal of Medical Informatics, 2021, 147, 104369.	1.6	48
17	Air Quality Monitoring Using Assistive Robots for Ambient Assisted Living and Enhanced Living Environments through Internet of Things. Electronics (Switzerland), 2019, 8, 1375.	1.8	44
18	Application of linear regression algorithm and stochastic gradient descent in a machine learning environment for predicting biomass higher heating value. Biofuels, Bioproducts and Biorefining, 2020, 14, 1286-1295.	1.9	43

#	ARTICLE	IF	CITATIONS
19	Indoor Air Quality Monitoring Systems for Enhanced Living Environments: A Review toward Sustainable Smart Cities. <i>Sustainability</i> , 2020, 12, 4024.	1.6	43
20	Suicide Risk Assessment Using Machine Learning and Social Networks: a Scoping Review. <i>Journal of Medical Systems</i> , 2020, 44, 205.	2.2	41
21	Telemedicine and e-Health research solutions in literature for combatting COVID-19: a systematic review. <i>Health and Technology</i> , 2021, 11, 257-266.	2.1	38
22	mHealth: Indoor Environmental Quality Measuring System for Enhanced Health and Well-Being Based on Internet of Things. <i>Journal of Sensor and Actuator Networks</i> , 2019, 8, 43.	2.3	35
23	Non-contact Infrared Temperature Acquisition System based on Internet of Things for Laboratory Activities Monitoring. <i>Procedia Computer Science</i> , 2019, 155, 487-494.	1.2	34
24	Pattern Recognition Techniques for the Identification of Activities of Daily Living Using a Mobile Device Accelerometer. <i>Electronics (Switzerland)</i> , 2020, 9, 509.	1.8	33
25	Ambient Assisted Living and Internet of Things. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2019, , 100-115.	0.2	33
26	Transfer Learning for Alzheimer's Disease through Neuroimaging Biomarkers: A Systematic Review. <i>Sensors</i> , 2021, 21, 7259.	2.1	33
27	Examining the Impact of Psychological, Social, and Quality Factors on the Continuous Intention to Use Virtual Meeting Platforms During and beyond COVID-19 Pandemic: A Hybrid SEM-ANN Approach. <i>International Journal of Human-Computer Interaction</i> , 2023, 39, 2673-2685.	3.3	32
28	Internet of Things for Water Quality Monitoring and Assessment: A Comprehensive Review. <i>Studies in Computational Intelligence</i> , 2021, , 245-259.	0.7	31
29	A Survey on IoT: Architectures, Elements, Applications, QoS, Platforms and Security Concepts. <i>Studies in Big Data</i> , 2017, , 115-130.	0.8	26
30	An Internet of Things-Based Environmental Quality Management System to Supervise the Indoor Laboratory Conditions. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 438.	1.3	25
31	Utilisation of machine learning algorithms for the prediction of syngas composition from biomass bio-oil steam reforming. <i>International Journal of Sustainable Energy</i> , 2021, 40, 310-325.	1.3	25
32	Chest X-ray analysis empowered with deep learning: A systematic review. <i>Applied Soft Computing Journal</i> , 2022, 126, 109319.	4.1	25
33	Indoor air quality prediction systems for smart environments: A systematic review. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2020, 12, 433-453.	0.8	24
34	Enhanced Hydroponic Agriculture Environmental Monitoring: An Internet of Things Approach. <i>Lecture Notes in Computer Science</i> , 2019, , 658-669.	1.0	23
35	Recognition of Activities of Daily Living and Environments Using Acoustic Sensors Embedded on Mobile Devices. <i>Electronics (Switzerland)</i> , 2019, 8, 1499.	1.8	22
36	A Real-Time Noise Monitoring System Based on Internet of Things for Enhanced Acoustic Comfort and Occupational Health. <i>IEEE Access</i> , 2020, 8, 139741-139755.	2.6	22

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37	Artificial Intelligence for Internet of Things and Enhanced Medical Systems. Studies in Computational Intelligence, 2021, , 43-59.	0.7	21
38	Review of low-cost sensors for indoor air quality: Features and applications. Applied Spectroscopy Reviews, 2022, 57, 747-779.	3.4	21
39	Energy-Aware and Reliability-Based Localization-Free Cooperative Acoustic Wireless Sensor Networks. IEEE Access, 2020, 8, 121366-121384.	2.6	20
40	Data Mining Techniques for Early Diagnosis of Diabetes: A Comparative Study. Applied Sciences (Switzerland), 2021, 11, 2218.	1.3	20
41	Mobile Health Apps for Medical Emergencies: Systematic Review. JMIR MHealth and UHealth, 2020, 8, e18513.	1.8	20
42	Health informatics for indoor air quality monitoring. , 2016, , .		19
43	Application of artificial neural networks in predicting biomass higher heating value: an early appraisal. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-8.	1.2	19
44	Fuzzy Inference System Tree with Particle Swarm Optimization and Genetic Algorithm: A novel approach for PM10 forecasting. Expert Systems With Applications, 2021, 183, 115376.	4.4	19
45	Monitoring Health Factors in Indoor Living Environments Using Internet of Things. Advances in Intelligent Systems and Computing, 2017, , 785-794.	0.5	18
46	Monitoring and control of the indoor environment. , 2017, , .		18
47	IAQ Evaluation Using an IoT CO2 Monitoring System for Enhanced Living Environments. Advances in Intelligent Systems and Computing, 2018, , 1169-1177.	0.5	17
48	Comparison of machine learning techniques for the identification of human activities from inertial sensors available in a mobile device after the application of data imputation techniques. Computers in Biology and Medicine, 2021, 135, 104638.	3.9	17
49	Machine Learning in Medical Emergencies: a Systematic Review and Analysis. Journal of Medical Systems, 2021, 45, 88.	2.2	17
50	Is The Timed-Up and Go Test Feasible in Mobile Devices? A Systematic Review. Electronics (Switzerland), 2020, 9, 528.	1.8	16
51	An ensemble-based approach for automated medical diagnosis of malaria using EfficientNet. Multimedia Tools and Applications, 2022, 81, 28061-28078.	2.6	16
52	Mobile Applications for Training Plan Using Android Devices: A Systematic Review and a Taxonomy Proposal. Information (Switzerland), 2020, 11, 343.	1.7	15
53	Machine learning for the evaluation of the presence of heart disease. Procedia Computer Science, 2020, 177, 432-437.	1.2	14
54	Noise Mapping Through Mobile Crowdsourcing for Enhanced Living Environments. Lecture Notes in Computer Science, 2019, , 670-679.	1.0	13

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55	Smartwatch-Based Application for Enhanced Healthy Lifestyle in Indoor Environments. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 168-177.	0.5	13
56	ADFIST: Adaptive Dynamic Fuzzy Inference System Tree Driven by Optimized Knowledge Base for Indoor Air Quality Assessment. <i>Sensors</i> , 2022, 22, 1008.	2.1	13
57	Indoor Air Quality Monitoring for Enhanced Healthy Buildings. , 2019, , .		12
58	Agricultural environment monitoring system using wireless sensor networks and IoT. , 2018, , .		11
59	Activities of Daily Living and Environment Recognition Using Mobile Devices: A Comparative Study. <i>Electronics (Switzerland)</i> , 2020, 9, 180.	1.8	11
60	Identification of Serious Adverse Events in Patients with Traumatic Brain Injuries, from Prehospital Care to Intensive-Care Unit, Using Early Warning Scores. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1504.	1.2	11
61	Identification of Diseases Based on the Use of Inertial Sensors: A Systematic Review. <i>Electronics (Switzerland)</i> , 2020, 9, 778.	1.8	10
62	Internet of Things for Enhanced Food Safety and Quality Assurance: A Literature Review. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 653-663.	0.3	10
63	Comparison of Machine Learning Algorithms in the Prediction of Hospitalized Patients with Schizophrenia. <i>Sensors</i> , 2022, 22, 2517.	2.1	10
64	A Survey of Using Machine Learning Algorithms During the COVID-19 Pandemic. <i>Studies in Systems, Decision and Control</i> , 2021, , 1-8.	0.8	9
65	Indoor Air Quality Monitoring Systems and COVID-19. <i>Studies in Systems, Decision and Control</i> , 2021, , 133-147.	0.8	8
66	Using IoT and Social Networks for Enhanced Healthy Practices in Buildings. <i>Smart Innovation, Systems and Technologies</i> , 2019, , 424-432.	0.5	8
67	Circular Economy for Clothes Using Web and Mobile Technologies – A Systematic Review and a Taxonomy Proposal. <i>Information (Switzerland)</i> , 2020, 11, 161.	1.7	7
68	Indoor Air Quality Monitoring with IoT: Predicting PM10 for Enhanced Decision Support. , 2020, , .		7
69	Smartphone Application for Enhanced Indoor Health Environments. <i>Journal of Information Systems Engineering and Management</i> , 2016, 1, .	0.4	7
70	Identification of Daily Activities and Environments Based on the AdaBoost Method Using Mobile Device Data: A Systematic Review. <i>Electronics (Switzerland)</i> , 2020, 9, 192.	1.8	7
71	Air Quality through Automated Mobile Sensing and Wireless Sensor Networks for Enhanced Living Environments. , 2019, , .		6
72	Capacity Analysis of Lattice Reduction Aided Equalizers for Massive MIMO Systems. <i>Information (Switzerland)</i> , 2020, 11, 301.	1.7	6

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73	A novel application of fuzzy inference system optimized with particle swarm optimization and genetic algorithm for PM10 prediction. <i>Soft Computing</i> , 2022, 26, 9573-9586.	2.1	6
74	Noise Monitoring for Enhanced Living Environments Based on Internet of Things. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 45-54.	0.5	5
75	Internet of Things for Enhanced Living Environments, Health and Well-Being: Technologies, Architectures and Systems. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 616-631.	0.5	5
76	Particulate Matter Monitoring and Assessment through Internet of Things: a Health Information System for Enhanced Living Environments. <i>Journal of Medical Systems</i> , 2020, 44, 207.	2.2	4
77	Internet of Things Based Environment Monitoring and PM ₁₀ Prediction for Smart Home. , 2020, , .		4
78	Air Quality Monitoring through LoRa Technologies: A Literature Review. , 2020, , .		4
79	Oversampling Techniques for Diabetes Classification: a Comparative Study. , 2021, , .		4
80	An Internet of Things Approach for Environmental Quality Management and Laboratory Activity Support. , 2019, , .		3
81	Environmental Quality Monitoring System Based on Internet of Things for Laboratory Conditions Supervision. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 34-44.	0.5	3
82	Promoting Health and Well-Being Using Wearable and Smartphone Technologies for Ambient Assisted Living Through Internet of Things. <i>Lecture Notes in Networks and Systems</i> , 2020, , 12-22.	0.5	3
83	Predicting Absenteeism and Temporary Disability Using Machine Learning: a Systematic Review and Analysis. <i>Journal of Medical Systems</i> , 2020, 44, 162.	2.2	3
84	An Experience of Electronic Health Records Implementation in a Mexican Region. <i>Journal of Medical Systems</i> , 2020, 44, 106.	2.2	3
85	Indoor Air Quality: Impact on Public Health. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2021, , 1-14.	0.2	3
86	A Review on the Artificial Intelligence Algorithms for the Recognition of Activities of Daily Living Using Sensors in Mobile Devices. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 685-713.	0.5	3
87	Identification of Activities of Daily Living through Artificial Intelligence: an accelerometry-based approach. <i>Procedia Computer Science</i> , 2020, 175, 308-314.	1.2	2
88	Indoor air quality prediction using optimizers: A comparative study. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 39, 7053-7069.	0.8	2
89	Internet of Things for Indoor Air Quality Monitoring. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2021, , .	0.2	2
90	Recognition of Activities of Daily Living Based on a Mobile Data Source Framework. <i>Studies in Computational Intelligence</i> , 2021, , 321-335.	0.7	2

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91	E-health and M-health applications in Georgia: A review on the free available applications for Android Devices. , 2020, , .		2
92	System for monitoring and control energy consumptions. , 2017, , .		1
93	Predicting Indoor Air Quality: Integrating IoT with Artificial Intelligence. SpringerBriefs in Applied Sciences and Technology, 2021, , 51-67.	0.2	1
94	Indoor Air Quality and Internet of Things: The State of the Art. SpringerBriefs in Applied Sciences and Technology, 2021, , 33-50.	0.2	1
95	Machine Learning and Internet of Things for Smart Living: A Comprehensive Review and Analysis. Studies in Fuzziness and Soft Computing, 2021, , 155-177.	0.6	1
96	Telemedicine solutions for patients with mental disorders: a Delphi study and review of mobile applications in virtual stores. Informatics for Health and Social Care, 2021, , 1-20.	1.4	1
97	Personal Digital Life Coach for Physical Therapy. , 2020, , .		1
98	Enabling Smart Homes Through Health Informatics and Internet of Things for Enhanced Living Environments. Advances in Intelligent Systems and Computing, 2020, , 76-85.	0.5	1
99	An introduction to Current Trends and Advances in Computer-Aided Intelligent Environmental Data Engineering. , 2022, , 1-7.		1
100	Indoor air pollution: a comprehensive review of public health challenges and prevention policies. , 2022, , 105-126.		1
101	Connected Mental Health Solutions: Global Attitudes, Preferences, and Concerns. Telemedicine Journal and E-Health, 2023, 29, 315-330.	1.6	1
102	Environmental Quality Supervision for Enhanced Living Environments and Laboratory Activity Support Using IBM Watson Internet of Things Platform. Lecture Notes in Computer Science, 2019, , 680-691.	1.0	0
103	Internet of Things for Enhanced Smart Cities: A Review, Roadmap and Case Study on Air Quality Sensing. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 109-121.	0.2	0
104	Mobile Computing Technologies for Enhanced Living Environments: A Literature Review. Studies in Computational Intelligence, 2021, , 21-32.	0.7	0
105	A Mobile Computing Solution for Enhanced Living Environments and Healthcare Based on Internet of Things. Advanced Information and Knowledge Processing, 2021, , 31-47.	0.2	0
106	An Internet of Things and Wireless Sensor Networks Hybrid Architecture for Precision Agriculture Monitoring. Environmental Science and Engineering, 2021, , 1863-1867.	0.1	0
107	Future Directions on IoT and Indoor Air Quality Management. SpringerBriefs in Applied Sciences and Technology, 2021, , 69-82.	0.2	0
108	Internet of Things (IoT): The Futuristic Technology. SpringerBriefs in Applied Sciences and Technology, 2021, , 15-31.	0.2	0

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109	Mobile Applications Dedicated for Cardiac Patients: Research of Available Resources. Intelligent Systems Reference Library, 2020, , 107-119.	1.0	0
110	A Study on Software Testing Standard Using ISO/IEC/IEEE 29119-2: 2013. Studies in Systems, Decision and Control, 2021, , 43-62.	0.8	0
111	Industrial Informatics for Quality Assurance and Real-Time Defect Detection Through Computer Vision. Advances in Intelligent Systems and Computing, 2021, , 325-335.	0.5	0
112	Diabetes Disease through Machine Learning: A comparative study. , 2020, , .		0
113	A Cost-Effective Real-Time Monitoring System for Water Quality Management Based on Internet of Things. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 312-323.	0.2	0
114	Internet of Things Sensor Data Analysis for Enhanced Living Environments: A Literature Review and a Case Study Results on Air Quality Sensing. Studies in Computational Intelligence, 2021, , 397-414.	0.7	0
115	Predicting Type 2 Diabetes Through Machine Learning: Performance Analysis in Balanced and Imbalanced Data. Lecture Notes in Computer Science, 2021, , 269-279.	1.0	0
116	IAQ Assessment for Smart Environments: Conclusion and Future Scope. Ambient Intelligence and Smart Environments, 2022, , .	0.2	0