GonÃ§alo Marques

List of Publications by Year
in descending order

116 papers	2,741 citations	249298 26 h-index	242451 47 g-index
123 all docs	123 docs citations	123 times ranked	2271 citing authors

#	Article	IF	Citations
1	Connected Mental Health Solutions: Global Attitudes, Preferences, and Concerns. Telemedicine Journal and E-Health, 2023, 29, 315-330.	1.6	1
2	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. International Journal of Human-Computer Interaction, 2023, 39, 2673-2685.	3.3	32
3	ADFIST: Adaptive Dynamic Fuzzy Inference System Tree Driven by Optimized Knowledge Base for Indoor Air Quality Assessment. Sensors, 2022, 22, 1008.	2.1	13
4	A novel application of fuzzy inference system optimized with particle swarm optimization and genetic algorithm for PM10 prediction. Soft Computing, 2022, 26, 9573-9586.	2.1	6
5	An introduction to Current Trends and Advances in Computer-Aided Intelligent Environmental Data Engineering. , 2022, , 1-7.		1
6	Indoor air pollution: a comprehensive review of public health challenges and prevention policies. , 2022, , 105-126.		1
7	Comparison of Machine Learning Algorithms in the Prediction of Hospitalized Patients with Schizophrenia. Sensors, 2022, 22, 2517.	2.1	10
8	An ensemble-based approach for automated medical diagnosis of malaria using EfficientNet. Multimedia Tools and Applications, 2022, 81, 28061-28078.	2.6	16
9	IAQ Assessment for Smart Environments: Conclusion and Future Scope. Ambient Intelligence and Smart Environments, 2022, , .	0.2	0
10	Review of low-cost sensors for indoor air quality: Features and applications. Applied Spectroscopy Reviews, 2022, 57, 747-779.	3.4	21
11	Chest X-ray analysis empowered with deep learning: A systematic review. Applied Soft Computing Journal, 2022, 126, 109319.	4.1	25
12	Utilisation of machine learning algorithms for the prediction of syngas composition from biomass bio-oil steam reforming. International Journal of Sustainable Energy, 2021, 40, 310-325.	1.3	25
13	Artificial Intelligence for Internet of Things and Enhanced Medical Systems. Studies in Computational Intelligence, 2021, , 43-59.	0.7	21
14	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
15	Indoor Air Quality: Impact on Public Health. SpringerBriefs in Applied Sciences and Technology, 2021, , 1-14.	0.2	3
16	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
17	Internet of Things for Enhanced Food Safety and Quality Assurance: A Literature Review. Lecture Notes in Electrical Engineering, 2021, , 653-663.	0.3	10
18	Internet of Things for Indoor Air Quality Monitoring. SpringerBriefs in Applied Sciences and Technology, 2021, , .	0.2	2

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19	Predicting Indoor Air Quality: Integrating IoT with Artificial Intelligence. SpringerBriefs in Applied Sciences and Technology, 2021, , 51-67.	0.2	1
20	Indoor Air Quality Monitoring Systems and COVID-19. Studies in Systems, Decision and Control, 2021, , 133-147.	0.8	8
21	Mobile Computing Technologies for Enhanced Living Environments: A Literature Review. Studies in Computational Intelligence, 2021, , 21-32.	0.7	0
22	A Survey of Using Machine Learning Algorithms During the COVID-19 Pandemic. Studies in Systems, Decision and Control, 2021, , 1-8.	0.8	9
23	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
24	An Internet of Things and Wireless Sensor Networks Hybrid Architecture for Precision Agriculture Monitoring. Environmental Science and Engineering, 2021, , 1863-1867.	0.1	0
25	Future Directions on IoT and Indoor Air Quality Management. SpringerBriefs in Applied Sciences and Technology, 2021, , 69-82.	0.2	0
26	Internet of Things (IoT): The Futuristic Technology. SpringerBriefs in Applied Sciences and Technology, 2021, , 15-31.	0.2	0
27	Telemedicine and e-Health research solutions in literature for combatting COVID-19: a systematic review. Health and Technology, 2021, 11, 257-266.	2.1	38
28	Data Mining Techniques for Early Diagnosis of Diabetes: A Comparative Study. Applied Sciences (Switzerland), 2021, 11, 2218.	1.3	20
29	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
30	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
31	Machine Learning in Medical Emergencies: a Systematic Review and Analysis. Journal of Medical Systems, 2021, 45, 88.	2.2	17
32	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
33	Indoor Air Quality and Internet of Things: The State of the Art. SpringerBriefs in Applied Sciences and Technology, 2021, , 33-50.	0.2	1
34	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
35	Internet of Things for Water Quality Monitoring and Assessment: A Comprehensive Review. Studies in Computational Intelligence, 2021, , 245-259.	0.7	31
36	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

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37	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
38	Recognition of Activities of Daily Living Based on a Mobile Data Source Framework. Studies in Computational Intelligence, 2021, , 321-335.	0.7	2
39	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
40	Transfer Learning for Alzheimerâ€™s Disease through Neuroimaging Biomarkers: A Systematic Review. Sensors, 2021, 21, 7259.	2.1	33
41	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
42	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
43	Oversampling Techniques for Diabetes Classification: a Comparative Study. , 2021, , .		4
44	Promoting Health and Well-Being Using Wearable and Smartphone Technologies for Ambient Assisted Living Through Internet of Things. Lecture Notes in Networks and Systems, 2020, , 12-22.	0.5	3
45	Automated medical diagnosis of COVID-19 through EfficientNet convolutional neural network. Applied Soft Computing Journal, 2020, 96, 106691.	4.1	223
46	Identification of Activities of Daily Living through Artificial Intelligence: an accelerometry-based approach. Procedia Computer Science, 2020, 175, 308-314.	1.2	2
47	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
48	Particulate Matter Monitoring and Assessment through Internet of Things: a Health Information System for Enhanced Living Environments. Journal of Medical Systems, 2020, 44, 207.	2.2	4
49	Suicide Risk Assessment Using Machine Learning and Social Networks: a Scoping Review. Journal of Medical Systems, 2020, 44, 205.	2.2	41
50	Machine learning for the evaluation of the presence of heart disease. Procedia Computer Science, 2020, 177, 432-437.	1.2	14
51	Indoor air quality prediction using optimizers: A comparative study. Journal of Intelligent and Fuzzy Systems, 2020, 39, 7053-7069.	0.8	2
52	Predicting Absenteeism and Temporary Disability Using Machine Learning: a Systematic Review and Analysis. Journal of Medical Systems, 2020, 44, 162.	2.2	3
53	Mobile Applications for Training Plan Using Android Devices: A Systematic Review and a Taxonomy Proposal. Information (Switzerland), 2020, 11, 343.	1.7	15
54	A Real-Time Noise Monitoring System Based on Internet of Things for Enhanced Acoustic Comfort and Occupational Health. IEEE Access, 2020, 8, 139741-139755.	2.6	22

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55	Indoor air quality prediction systems for smart environments: AÂsystematic review. Journal of Ambient Intelligence and Smart Environments, 2020, 12, 433-453.	0.8	24
56	Application of linear regression algorithm and stochastic gradient descent in a machineâ€learning environment for predicting biomass higher heating value. Biofuels, Bioproducts and Biorefining, 2020, 14, 1286-1295.	1.9	43
57	Indoor Air Quality Monitoring Systems for Enhanced Living Environments: A Review toward Sustainable Smart Cities. Sustainability, 2020, 12, 4024.	1.6	43
58	Circular Economy for Clothes Using Web and Mobile Technologiesâ€"A Systematic Review and a Taxonomy Proposal. Information (Switzerland), 2020, 11, 161.	1.7	7
59	Wireless Body Area Networks: UWB Wearable Textile Antenna for Telemedicine and Mobile Health Systems. Micromachines, 2020, 11, 558.	1.4	68
60	Identification of Diseases Based on the Use of Inertial Sensors: A Systematic Review. Electronics (Switzerland), 2020, 9, 778.	1.8	10
61	Activities of Daily Living and Environment Recognition Using Mobile Devices: A Comparative Study. Electronics (Switzerland), 2020, 9, 180.	1.8	11
62	A Research on the Classification and Applicability of the Mobile Health Applications. Journal of Personalized Medicine, 2020, 10, 11.	1.1	69
63	Capacity Analysis of Lattice Reduction Aided Equalizers for Massive MIMO Systems. Information (Switzerland), 2020, 11, 301.	1.7	6
64	Energy-Aware and Reliability-Based Localization-Free Cooperative Acoustic Wireless Sensor Networks. IEEE Access, 2020, 8, 121366-121384.	2.6	20
65	Identification of Serious Adverse Events in Patients with Traumatic Brain Injuries, from Prehospital Care to Intensive-Care Unit, Using Early Warning Scores. International Journal of Environmental Research and Public Health, 2020, 17, 1504.	1.2	11
66	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
67	Pattern Recognition Techniques for the Identification of Activities of Daily Living Using a Mobile Device Accelerometer. Electronics (Switzerland), 2020, 9, 509.	1.8	33
68	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
69	Is The Timed-Up and Go Test Feasible in Mobile Devices? A Systematic Review. Electronics (Switzerland), 2020, 9, 528.	1.8	16
70	MAFC: Multi-Agent Fog Computing Model for Healthcare Critical Tasks Management. Sensors, 2020, 20, 1853.	2.1	81
71	An Experience of Electronic Health Records Implementation in a Mexican Region. Journal of Medical Systems, 2020, 44, 106.	2.2	3
72	Internet of Things for Enhanced Living Environments, Health and Well-Being: Technologies, Architectures and Systems. Advances in Intelligent Systems and Computing, 2020, , 616-631.	0.5	5

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73	A Review on the Artificial Intelligence Algorithms for the Recognition of Activities of Daily Living Using Sensors in Mobile Devices. Advances in Intelligent Systems and Computing, 2020, , 685-713.	0.5	3
74	Internet of Things Based Environment Monitoring and PM_{10} Prediction for Smart Home. , 2020, , .		4
75	Indoor Air Quality Monitoring with IoT: Predicting PM10 for Enhanced Decision Support. , 2020, , .		7
76	A comprehensive review on indoor air quality monitoring systems for enhanced public health. Sustainable Environment Research, 2020, 30, .	2.1	147
77	Mobile Health Apps for Medical Emergencies: Systematic Review. JMIR MHealth and UHealth, 2020, 8, e18513.	1.8	20
78	Identification of Daily Activites and Environments Based on the AdaBoost Method Using Mobile Device Data: A Systematic Review. Electronics (Switzerland), 2020, 9, 192.	1.8	7
79	Mobile Applications Dedicated for Cardiac Patients: Research of Available Resources. Intelligent Systems Reference Library, 2020, , 107-119.	1.0	0
80	Diabetes Disease through Machine Learning: A comparative study. , 2020, , .		0
81	E-health and M-health applications in Georgia: A review on the free available applications for Android Devices. , 2020, , .		2
82	Personal Digital Life Coach for Physical Therapy. , 2020, , .		1
83	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
84	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
85	Air Quality Monitoring through LoRa Technologies: A Literature Review. , 2020, , .		4
86	Air Quality through Automated Mobile Sensing and Wireless Sensor Networks for Enhanced Living Environments. , 2019, , .		6
87	An Internet of Things Approach for Environmental Quality Management and Laboratory Activity Support. , 2019, , .		3
88	mHealth: Indoor Environmental Quality Measuring System for Enhanced Health and Well-Being Based on Internet of Things. Journal of Sensor and Actuator Networks, 2019, 8, 43.	2.3	35
89	Non-contact Infrared Temperature Acquisition System based on Internet of Things for Laboratory Activities Monitoring. Procedia Computer Science, 2019, 155, 487-494.	1.2	34
90	Indoor Air Quality Monitoring for Enhanced Healthy Buildings. , 2019, , .		12

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91	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
92	An Internet of Things-Based Environmental Quality Management System to Supervise the Indoor Laboratory Conditions. Applied Sciences (Switzerland), 2019, 9, 438.	1.3	25
93	A Cost-Effective Air Quality Supervision Solution for Enhanced Living Environments through the Internet of Things. Electronics (Switzerland), 2019, 8, 170.	1.8	69
94	Enhanced Hydroponic Agriculture Environmental Monitoring: An Internet of Things Approach. Lecture Notes in Computer Science, 2019, , 658-669.	1.0	23
95	Noise Mapping Through Mobile Crowdsourcing for Enhanced Living Environments. Lecture Notes in Computer Science, 2019, , 670-679.	1.0	13
96	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
97	Environmental Quality Monitoring System Based on Internet of Things for Laboratory Conditions Supervision. Advances in Intelligent Systems and Computing, 2019, , 34-44.	0.5	3
98	Noise Monitoring for Enhanced Living Environments Based on Internet of Things. Advances in Intelligent Systems and Computing, 2019, , 45-54.	0.5	5
99	Indoor Air Quality Assessment Using a CO_2 Monitoring System Based on Internet of Things. Journal of Medical Systems, 2019, 43, 67.	2.2	115
100	Recognition of Activities of Daily Living and Environments Using Acoustic Sensors Embedded on Mobile Devices. Electronics (Switzerland), 2019, 8, 1499.	1.8	22
101	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
102	Smartwatch-Based Application for Enhanced Healthy Lifestyle in Indoor Environments. Advances in Intelligent Systems and Computing, 2019, , 168-177.	0.5	13
103	Using IoT and Social Networks for Enhanced Healthy Practices in Buildings. Smart Innovation, Systems and Technologies, 2019, , 424-432.	0.5	8
104	Ambient Assisted Living and Internet of Things. Advances in Computer and Electrical Engineering Book Series, 2019, , 100-115.	0.2	33
105	IAQ Evaluation Using an IoT CO_2 Monitoring System for Enhanced Living Environments. Advances in Intelligent Systems and Computing, 2018, , 1169-1177.	0.5	17
106	Agricultural environment monitoring system using wireless sensor networks and IoT. , 2018, , .		11
107	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
108	Monitoring Health Factors in Indoor Living Environments Using Internet of Things. Advances in Intelligent Systems and Computing, 2017, , 785-794.	0.5	18

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109	Monitoring Indoor Air Quality for Enhanced Occupational Health. Journal of Medical Systems, 2017, 41, 23.	2.2	130
110	Monitoring and control of the indoor environment. , 2017, , .		18
111	System for monitoring and control energy consumptions. , 2017, , .		1
112	A Survey on IoT: Architectures, Elements, Applications, QoS, Platforms and Security Concepts. Studies in Big Data, 2017, , 115-130.	0.8	26
113	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
114	Health informatics for indoor air quality monitoring. , 2016, , .		19
115	Smartphone Application for Enhanced Indoor Health Environments. Journal of Information Systems Engineering and Management, 2016, 1, .	0.4	7
116	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