Ivan Miguel Pires

List of Publications by Year
in descending order

103	1,315	489802	536525
papers	citations	18 h-index	29 g-index

113	113	113	1159
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Literature Review on Artificial Intelligence Methods for Glaucoma Screening, Segmentation, and Classification. Journal of Imaging, 2022, 8, 19.	1.7	19
2	Development Technologies for the Monitoring of Six-Minute Walk Test: A Systematic Review. Sensors, 2022, 22, 581.	2.1	14
3	Premises Based Smart Door Chains System Using IoT Cloud. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 834-846.	0.2	2
4	Technological Solutions for Sign Language Recognition: A Scoping Review of Research Trends, Challenges, and Opportunities. IEEE Access, 2022, 10, 40979-40998.	2.6	12
5	GAN-Based Image Colorization for Self-Supervised Visual Feature Learning. Sensors, 2022, 22, 1599.	2.1	21
6	A Systematic Review of Artificial Intelligence Applications Used for Inherited Retinal Disease Management. Medicina (Lithuania), 2022, 58, 504.	0.8	6
7	Detection and Mosaicing Techniques for Low-Quality Retinal Videos. Sensors, 2022, 22, 2059.	2.1	0
8	Daily motionless activities: A dataset with accelerometer, magnetometer, gyroscope, environment, and GPS data. Scientific Data, 2022, 9, 105.	2.4	3
9	A Comprehensive Review of Methods and Equipment for Aiding Automatic Glaucoma Tracking. Diagnostics, 2022, 12, 935.	1.3	4
10	A Brief Review on 4D Weather Visualization. Sustainability, 2022, 14, 5248.	1.6	2
11	Can the Eight Hop Test Be Measured with Sensors? A Systematic Review. Sensors, 2022, 22, 3582.	2.1	0
12	A Brief Review on Internet of Things, Industry 4.0 and Cybersecurity. Electronics (Switzerland), 2022, 11, 1742.	1.8	9
13	Monitoring of Cardiovascular Diseases: An Analysis of the Mobile Applications Available in the Google Play Store. Electronics (Switzerland), 2022, 11, 1881.	1.8	1
14	Retinal Glaucoma Public Datasets: What Do We Have and What Is Missing?. Journal of Clinical Medicine, 2022, 11, 3850.	1.0	4
15	Artificial Intelligence for Internet of Things and Enhanced Medical Systems. Studies in Computational Intelligence, 2021, , 43-59.	0.7	21
16	Mobile Device Approach for the Measurement of Jump Flight Time. Lecture Notes in Computer Science, 2021, , 372-375.	1.0	0
17	CoviHealth: A Pilot Study with Teenagers in Schools of Centre of Portugal. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 139-147.	0.2	0
18	Approach for the Development of a System for COVID-19 Preliminary Test. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 117-124.	0.2	1

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19	An Experimental Study on the Validity and Reliability of a Smartphone Application to Acquire Temporal Variables during the Single Sit-to-Stand Test with Older Adults. Sensors, 2021, 21, 2050.	2.1	11
20	A Systematic Investigation of Models for Color Image Processing in Wound Size Estimation. Computers, 2021, 10, 43.	2.1	5
21	A Framework for Malicious Traffic Detection in IoT Healthcare Environment. Sensors, 2021, 21, 3025.	2.1	77
22	Towards Detecting Pneumonia Progression in COVID-19 Patients by Monitoring Sleep Disturbance Using Data Streams of Non-Invasive Sensor Networks. Sensors, 2021, 21, 3030.	2.1	7
23	A Brief Review on the Sensor Measurement Solutions for the Ten-Meter Walk Test. Computers, 2021, 10, 49.	2.1	4
24	Approach for the Wound Area Measurement with Mobile Devices. , 2021, , .		1
25	Indoor and outdoor environmental data: A dataset with acoustic data acquired by the microphone embedded on mobile devices. Data in Brief, 2021, 36, 107051.	0.5	1
26	Mobile application for Inclusive Tourism. , 2021, , .		4
27	Monitoring the Health and Residence Conditions of Elderly People, Using LoRa and the Things Network. Electronics (Switzerland), 2021, 10, 1729.	1.8	7
28	Rural Healthcare IoT Architecture Based on Low-Energy LoRa. International Journal of Environmental Research and Public Health, 2021, 18, 7660.	1.2	21
29	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
30	Experimental Study on Wound Area Measurement with Mobile Devices. Sensors, 2021, 21, 5762.	2.1	11
31	A Portable Smart Fitness Suite for Real-Time Exercise Monitoring and Posture Correction. Sensors, 2021, 21, 6692.	2.1	16
32	Mindfulness-Based Interventions to Reduce Burnout in Primary Healthcare Professionals: A Systematic Review and Meta-Analysis. Healthcare (Switzerland), 2021, 9, 1342.	1.0	21
33	Mobile 5P-Medicine Approach for Cardiovascular Patients. Sensors, 2021, 21, 6986.	2.1	13
34	Recognition of Activities of Daily Living Based on a Mobile Data Source Framework. Studies in Computational Intelligence, 2021, , 321-335.	0.7	2
35	Sun Exposure in Pediatric Age: Perspective of Caregivers. Children, 2021, 8, 1019.	0.6	4
36	Biometric Data Capture as a Way toÂIdentify Lack of Physical Activity inÂDaily Life. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 18-26.	0.2	0

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37	A Two-Fold Machine Learning Approach to Prevent and Detect IoT Botnet Attacks. IEEE Access, 2021, 9, 163412-163430.	2.6	32
38	Sensors are Capable to Help in the Measurement of the Results of the Timed-Up and Go Test? A Systematic Review. Journal of Medical Systems, 2020, 44, 199.	2.2	10
39	Identification of Activities of Daily Living through Artificial Intelligence: an accelerometry-based approach. Procedia Computer Science, 2020, 175, 308-314.	1.2	2
40	Accelerometer data from the performance of sit-to-stand test by elderly people. Data in Brief, 2020, 33, 106328.	0.5	9
41	Machine learning for the evaluation of the presence of heart disease. Procedia Computer Science, 2020, 177, 432-437.	1.2	14
42	Homogeneous Data Normalization and Deep Learning: A Case Study in Human Activity Classification. Future Internet, 2020, 12, 194.	2.4	23
43	Measurement of Results of Functional Reach Test with Sensors: A Systematic Review. Electronics (Switzerland), 2020, 9, 1078.	1.8	12
44	Mobile Applications for Training Plan Using Android Devices: A Systematic Review and a Taxonomy Proposal. Information (Switzerland), 2020, 11, 343.	1.7	15
45	Analysis of the Results of Heel-Rise Test with Sensors: A Systematic Review. Electronics (Switzerland), 2020, 9, 1154.	1.8	12
46	Machine Learning Techniques with ECG and EEG Data: An Exploratory Study. Computers, 2020, 9, 55.	2.1	8
47	Improving Human Activity Monitoring by Imputation of Missing Sensory Data: Experimental Study. Future Internet, 2020, 12, 155.	2.4	14
48	Experimental Study for Determining the Parameters Required for Detecting ECG and EEG Related Diseases during the Timed-Up and Go Test. Computers, 2020, 9, 67.	2.1	7
49	Promotion of Healthy Lifestyles to Teenagers with Mobile Devices: A Case Study in Portugal. Healthcare (Switzerland), 2020, 8, 315.	1.0	11
50	Air Pollution Prediction with Multi-Modal Data and Deep Neural Networks. Remote Sensing, 2020, 12, 4142.	1.8	57
51	Literature on Applied Machine Learning in Metagenomic Classification: A Scoping Review. Biology, 2020, 9, 453.	1.3	15
52	Data acquisition of timed-up and go test with older adults: accelerometer, magnetometer, electrocardiography and electroencephalography sensorsâ€™ data. Data in Brief, 2020, 32, 106306.	0.5	3
53	PriADA: Management and Adaptation of Information Based on Data Privacy in Public Environments. Computers, 2020, 9, 77.	2.1	21
54	A Case Study on the Development of a Data Privacy Management Solution Based on Patient Information. Sensors, 2020, 20, 6030.	2.1	13

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55	Circular Economy for Clothes Using Web and Mobile Technologiesâ€"A Systematic Review and a Taxonomy Proposal. Information (Switzerland), 2020, 11, 161.	1.7	7
56	Identification of Diseases Based on the Use of Inertial Sensors: A Systematic Review. Electronics (Switzerland), 2020, 9, 778.	1.8	10
57	Activities of Daily Living and Environment Recognition Using Mobile Devices: A Comparative Study. Electronics (Switzerland), 2020, 9, 180.	1.8	11
58	Identification of Warning Situations in Road Using Cloud Computing Technologies and Sensors Available in Mobile Devices: A Systematic Review. Electronics (Switzerland), 2020, 9, 416.	1.8	2
59	A Research on the Classification and Applicability of the Mobile Health Applications. Journal of Personalized Medicine, 2020, 10, 11.	1.1	69
60	Promotion of Healthy Nutrition and Physical Activity Lifestyles for Teenagers: A Systematic Literature Review of The Current Methodologies. Journal of Personalized Medicine, 2020, 10, 12.	1.1	13
61	Mobile Computing Technologies for Health and Mobility Assessment: Research Design and Results of the Timed Up and Go Test in Older Adults. Sensors, 2020, 20, 3481.	2.1	20
62	Pattern Recognition Techniques for the Identification of Activities of Daily Living Using a Mobile Device Accelerometer. Electronics (Switzerland), 2020, 9, 509.	1.8	33
63	Is The Timed-Up and Go Test Feasible in Mobile Devices? A Systematic Review. Electronics (Switzerland), 2020, 9, 528.	1.8	16
64	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
65	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
66	Activities of daily living with motion: A dataset with accelerometer, magnetometer and gyroscope data from mobile devices. Data in Brief, 2020, 33, 106628.	0.5	6
67	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
68	The importance of software development for the monitoring of training to high competition. Brazilian Journal of Development, 2020, 6, 26005-26019.	0.0	2
69	Detection of diseases based on Electrocardiography and Electroencephalography signals embedded in different devices: An exploratory study. Brazilian Journal of Development, 2020, 6, 27212-27231.	0.0	6
70	Mobile Applications Dedicated for Cardiac Patients: Research of Available Resources. Intelligent Systems Reference Library, 2020, , 107-119.	1.0	0
71	Diabetes Disease through Machine Learning: A comparative study. , 2020, , .		0
72	Diseases identification with big data concept â€" The older people community. , 2020, , .		0

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73	Teenagers from Centre of Portugal: Nutrition and Physical Activity Data. , 2020, , .		0
74	E-health and M-health applications in Georgia: A review on the free available applications for Android Devices. , 2020, , .		2
75	Control and Prevention of Personal Stress. , 2020, , .		1
76	Personal Digital Life Coach for Physical Therapy. , 2020, , .		1
77	A review on Diagnosis and Treatment methods for coronavirus disease with sensors. , 2020, , .		3
78	Smartphone-based automatic measurement of the results of the Timed-Up and Go test. , 2019, , .		3
79	A review of frameworks on continuous data acquisition for e-Health and m-Health. , 2019, , .		7
80	CoviHealth. , 2019, , .		4
81	Version Reporting and Assessment Approaches for New and Updated Activity and Heart Rate Monitors. Sensors, 2019, 19, 1705.	2.1	25
82	Recognition of Activities of Daily Living and Environments Using Acoustic Sensors Embedded on Mobile Devices. Electronics (Switzerland), 2019, 8, 1499.	1.8	22
83	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
84	Mobile Applications for the Promotion and Support of Healthy Nutrition and Physical Activity Habits: A Systematic Review, Extraction of Features and Taxonomy Proposal. Open Bioinformatics Journal, 2019, 13, 50-71.	1.0	5
85	Mobile Applications for the Promotion and Support of Healthy Nutrition and Physical Activity Habits: A Systematic Review, Extraction of Features and Taxonomy Proposal. Open Bioinformatics Journal, 2019, 12, 50-71.	1.0	7
86	User Environment Detection with Acoustic Sensors Embedded on Mobile Devices for the Recognition of Activities of Daily Living. Statistics, Optimization and Information Computing, 2019, 7, .	0.4	0
87	Is the Overfitting in a Neural Network a Reliable Model for the Recognition of Activities of Daily Living?. , 2019, , .		1
88	Approach for the Development of a Framework for the Identification of Activities of Daily Living Using Sensors in Mobile Devices. Sensors, 2018, 18, 640.	2.1	25
89	Identification of activities of daily living through data fusion on motion and magnetic sensors embedded on mobile devices. Pervasive and Mobile Computing, 2018, 47, 78-93.	2.1	39
90	Recognition of Activities of Daily Living Based on Environmental Analyses Using Audio Fingerprinting Techniques: A Systematic Review. Sensors, 2018, 18, 160.	2.1	21

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91	Validation of a method for the estimation of energy expenditure during physical activity using a mobile device accelerometer. Journal of Ambient Intelligence and Smart Environments, 2018, 10, 315-326.	0.8	12
92	Android Library for Recognition of Activities of Daily Living: Implementation Considerations, Challenges, and Solutions. Open Bioinformatics Journal, 2018, 11, 61-88.	1.0	18
93	Multi-Sensor Mobile Platform for the Recognition of Activities of Daily Living and their Environments based on Artificial Neural Networks. , 2018, , .		4
94	Measurement of the Reaction Time in the 30-S Chair Stand Test using the Accelerometer Sensor Available in off-the-Shelf Mobile Devices. , 2018, , .		4
95	Limitations of the Use of Mobile Devices and Smart Environments for the Monitoring of Ageing People. , 2018, , .		13
96	Framework for the Recognition of Activities of Daily Living and Their Environments in the Development of a Personal Digital Life Coach. , 2018, , .		2
97	Limitations of Energy Expenditure Calculation Based on a Mobile Phone Accelerometer. , 2017, , .		5
98	Validation Techniques for Sensor Data in Mobile Health Applications. Journal of Sensors, 2016, 2016, 1-9.	0.6	30
99	From Data Acquisition to Data Fusion: A Comprehensive Review and a Roadmap for the Identification of Activities of Daily Living Using Mobile Devices. Sensors, 2016, 16, 184.	2.1	123
100	Identification of Activities of Daily Living Using Sensors Available in off-the-shelf Mobile Devices: Research and Hypothesis. Advances in Intelligent Systems and Computing, 2016, , 121-130.	0.5	14
101	Calculation of Jump Flight Time using a Mobile Device. , 2015, , .		3
102	Wound Area Assessment using Mobile Application. , 2015, , .		7
103	E-Health. Advances in Electronic Government, Digital Divide, and Regional Development Book Series, 0, , 302-326.	0.2	9