Ernesto Iadanza

List of Publications by Year
in descending order

106 papers	1,082 citations	567281 15 h-index	552781 26 g-index
131 all docs	131 docs citations	131 times ranked	861 citing authors

#	Article	IF	Citations
1	Hypertension Diagnosis and Management in Africa Using Mobile Phones: A Scoping Review. IEEE Reviews in Biomedical Engineering, 2024, 17, 197-211.	18.0	0
2	Machine learning for analysis of gene expression data in fast- and slow-progressing amyotrophic lateral sclerosis murine models. Biocybernetics and Biomedical Engineering, 2022, 42, 273-284.	5.9	1
3	Machine Learning Models for Early Prediction of Sepsis on Large Healthcare Datasets. Electronics (Switzerland), 2022, 11, 1507.	3.1	7
4	Automatic Classification of Hospital Settings through Artificial Intelligence. Electronics (Switzerland), 2022, 11, 1697.	3.1	3
5	Augmented Reality in Surgery: A Scoping Review. Applied Sciences (Switzerland), 2022, 12, 6890.	2.5	28
6	Case Studies on the Use of Sentiment Analysis to Assess the Effectiveness and Safety of Health Technologies: A Scoping Review. IEEE Access, 2021, 9, 66043-66051.	4.2	11
7	Sentiment Analysis for Performance Evaluation of Maintenance in Healthcare. IFMBE Proceedings, 2021, , 359-367.	0.3	2
8	A Machine Learning Decision Support System (DSS) for Neuroendocrine Tumor Patients Treated with Somatostatin Analog (SSA) Therapy. Diagnostics, 2021, 11, 804.	2.6	5
9	Medical devices nomenclature systems: a scoping review. Health and Technology, 2021, 11, 681-692.	3.6	2
10	Pupillometry via smartphone for low-resource settings. Biocybernetics and Biomedical Engineering, 2021, 41, 891-902.	5.9	9
11	Designing an Indoor Real-Time Location System for Healthcare Facilities. Communications in Computer and Information Science, 2021, , 110-125.	0.5	3
12	Fuzzy FMECA Process Analysis for Managing the Risks in the Lifecycle of a CBCT Scanner. IEEE Access, 2021, 9, 135723-135741.	4.2	2
13	ORÃO: RESTful Cloud-Based Ophthalmologic Medical Record for Chromatic Pupillometry. IFMBE Proceedings, 2020, , 713-720.	0.3	5
14	Designing a Healthcare Computer Aided Facility Management System: A New Approach. IFMBE Proceedings, 2020, , 407-411.	0.3	6
15	System for Monitoring Environmental Parameters in a Hospital Facility. IFMBE Proceedings, 2020, , 413-416.	0.3	2
16	Adverse Drug Events (ADEs): A Novel RFID Device for a Safe and Strong Match Between Patients and Their Medications. IFMBE Proceedings, 2020, , 417-422.	0.3	0
17	An integrated custom decision-support computer aided facility management informative system for healthcare facilities and analysis. Health and Technology, 2020, 10, 135-145.	3.6	15
18	An automatic system supporting clinical decision for chronic obstructive pulmonary disease. Health and Technology, 2020, 10, 487-498.	3.6	12

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19	A collaborative RESTful cloud-based tool for management of chromatic pupillometry in a clinical trial. Health and Technology, 2020, 10, 25-38.	3.6	8
20	A convolutional neural network approach to detect congestive heart failure. Biomedical Signal Processing and Control, 2020, 55, 101597.	5.7	75
21	Clinical engineering. , 2020, , 3-6.		5
22	RFID technology in health care. , 2020, , 33-41.		13
23	Computer-aided facilities management in health care. , 2020, , 42-51.		0
24	Clinical engineering in Italy. , 2020, , 128-131.		0
25	Patient safety revisited. , 2020, , 330-334.		0
26	Health technology assessment teaching for BME. , 2020, , 832-835.		1
27	Gut microbiota and artificial intelligence approaches: A scoping review. Health and Technology, 2020, 10, 1343-1358.	3.6	16
28	The Inadequacy of Regulatory Frameworks in Time of Crisis and in Low-Resource Settings: Personal Protective Equipment and COVID-19. Health and Technology, 2020, 10, 1375-1383.	3.6	52
29	Overview for special issue: global issues in clinical engineering. Health and Technology, 2020, 10, 485-486.	3.6	0
30	Automatic Detection of Genetic Diseases in Pediatric Age Using Pupillometry. IEEE Access, 2020, 8, 34949-34961.	4.2	19
31	Input Clinical Parameters for Cardiac Heart Failure Characterization Using Machine Learning. IFMBE Proceedings, 2020, , 328-334.	0.3	0
32	HERITAGE-LED ONTOLOGIES: DIGITAL PLATFORM FOR SUPPORTING THE REGENERATION OF CULTURAL AND HISTORICAL SITES. , 2020, , .		1
33	Bridging the Gap between 3D Navigation and Semantic Search. The INCEPTION platform. IOP Conference Series: Materials Science and Engineering, 2020, 949, 012079.	0.6	2
34	A Decision Support System for Chronic Obstructive Pulmonary Disease (COPD). IFMBE Proceedings, 2019, , 321-324.	0.3	2
35	Evidence-based medical equipment management: a convenient implementation. Medical and Biological Engineering and Computing, 2019, 57, 2215-2230.	2.8	27
36	Health Technology Assessment and Biomedical Engineering: Global trends, gaps and opportunities. Medical Engineering and Physics, 2019, 72, 19-26.	1.7	23

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37	Cultural Heritage Sites Holistic Documentation Through Semantic Web Technologies. Communications in Computer and Information Science, 2019, , 347-358.	0.5	2
38	Medical devices in Sub-Saharan Africa: optimal assistance via a computerized maintenance management system (CMMS) in Benin. Health and Technology, 2019, 9, 219-232.	3.6	15
39	FMECA Design Analysis: Risk Management for the Manufacture of a CBCT Scanner. IEEE Access, 2019, 7, 181546-181564.	4.2	6
40	Bed Management in Hospital Systems. IFMBE Proceedings, 2019, , 313-316.	0.3	5
41	Navigation Algorithm for the Evacuation of Hospitalized Patients. IFMBE Proceedings, 2019, , 317-320.	0.3	6
42	Toward a Novel Medical Device Based on Chromatic Pupillometry for Screening and Monitoring of Inherited Ocular Disease: A Pilot Study. IFMBE Proceedings, 2019, , 387-390.	0.3	5
43	Clinical Decision Support Systems for COPD: a general overview. IFMBE Proceedings, 2018, , 936-939.	0.3	1
44	Handling huge and complex 3D geometries with Semantic Web technology. IOP Conference Series: Materials Science and Engineering, 2018, 364, 012041.	0.6	12
45	IFMBE/Clinical Engineering Division projects for the advancement of the profession of Clinical Engineering. IFMBE Proceedings, 2018, , 402-405.	0.3	2
46	Analysis and optimization of clinical pathway of a cancer patient in a University Hospital. IFMBE Proceedings, 2018, , 715-718.	0.3	1
47	Evidence-based approach to medical equipment maintenance monitoring. IFMBE Proceedings, 2018, , 258-261.	0.3	5
48	Clinical Engineering Online Courses for Africa. IFMBE Proceedings, 2018, , 314-317.	0.3	1
49	Impact assessment and risk analysis in the redevelopment of a healthcare structure. IFMBE Proceedings, 2018, , 346-349.	0.3	0
50	IBM Watson Analytics for Managing Congestive Heart Failure. IFMBE Proceedings, 2018, , 1025-1028.	0.3	0
51	Testing of mechanical ventilators and infant incubators in healthcare institutions. Technology and Health Care, 2017, 25, 237-250.	1.2	62
52	Case Study: IBM Watson Analytics Cloud Platform as Analytics-as-a-Service System for Heart Failure Early Detection. Future Internet, 2016, 8, 32.	3.8	18
53	Implementing Audio and Visual Alarms to an Intensive Care Cerebral Function Monitor: A Standards Compliance Case Study. IFMBE Proceedings, 2016, , 962-966.	0.3	0
54	Assessing the Impact of a CIS/PACS Technology for a Cardiology Department Using QFD Methodology. IFMBE Proceedings, 2016, , 971-974.	0.3	1

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55	The Potential Power of sub-Saharan Africa Professional Associations for Biomedical/Clinical Engineering Professionals. IFMBE Proceedings, 2016, , 1014-1018.	0.3	1
56	Decision Support Systems in Healthcare. , 2016, , 75-93.		1
57	A multi-layer monitoring system for clinical management of Congestive Heart Failure. BMC Medical Informatics and Decision Making, 2015, 15, S5.	3.0	28
58	Approach to the management of infusion systems in hospitals. IFMBE Proceedings, 2015, , 1535-1537.	0.3	1
59	Device reconditioning service for home-based assistance. How to choose the right approach. IFMBE Proceedings, 2015, , 1504-1507.	0.3	0
60	A Web Based Integrated Healthcare Facility Management System. IFMBE Proceedings, 2015, , 633-636.	0.3	8
61	The STREAMER European Project. Case Study: Careggi Hospital in Florence. IFMBE Proceedings, 2015, , 649-652.	0.3	10
62	Clinical Engineering Certification and Education in Italy. IFMBE Proceedings, 2015, , 954-957.	0.3	3
63	Lean Thinking in Hospital: Case Study at the Pathology Laboratory. IFMBE Proceedings, 2015, , 613-616.	0.3	4
64	A Machine Learning System to Improve Heart Failure Patient Assistance. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1750-1756.	6.3	113
65	A distributed approach to Complex Event Processing in RFID-enabled hospitals. , 2014, , .		3
66	Careggi Smart hospital: A mobile app for patients, citizens and healthcare staff. , 2014, , .		20
67	Operating theatre model for activity monitoring and planning in hospitals. , 2014, , .		1
68	Hospital-based expert model for health technology procurement planning in hospitals. , 2014, 2014, 3504-7.		4
69	Design of a RESTful Web Information System for Drug Prescription and Administration. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 885-895.	6.3	16
70	Risk Management Process in a Microwave Thermal Ablation System for CE Marking. IFMBE Proceedings, 2014, , 1170-1173.	0.3	2
71	Performance Assessment of a Clinical Decision Support System for Analysis of Heart Failure. IFMBE Proceedings, 2014, , 1354-1357.	0.3	12
72	LICENSE: Web Application for Monitoring and Controlling Hospitals' Status with Respect to Legislative Standards. IFMBE Proceedings, 2014, , 1887-1890.	0.3	7

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73	A Tool for Patient Data Recovering Aimed to Machine Learning Supervised Training. IFMBE Proceedings, 2014, , 1899-1902.	0.3	3
74	Predictability of Some Pregnancy Outcomes Based on SVM and Dichotomous Regression Techniques. Lecture Notes in Computer Science, 2014, , 163-166.	1.3	1
75	Electromagnetic Compatibility: RFID and Medical Equipment in Hospitals. IFMBE Proceedings, 2013, , 732-735.	0.3	10
76	A queueing theory based model for business continuity in hospitals. , 2013, 2013, 922-5.		7
77	The diagnostic-therapeutic process. Workflow analysis and risk management with IT tools. , 2013, 2013, 4763-6.		2
78	Random forest for automatic assessment of heart failure severity in a telemonitoring scenario. , 2013, 2013, 3230-3.		16
79	SYRMA: a tool for a system approach to risk management in mission critical systems. International Journal of Business Information Systems, 2013, 13, 21.	0.2	9
80	A Methodology For Technolgy Risk Assessment in Hospitals. IFMBE Proceedings, 2013, , 736-739.	0.3	0
81	A decision support system for technological planning and management of field hospitals. International Journal of Healthcare Technology and Management, 2012, 13, 267.	0.1	0
82	Heart Failure analysis Dashboard for patient's remote monitoring combining multiple artificial intelligence technologies. , 2012, 2012, 2210-3.		19
83	Heart Failure Artificial Intelligence-Based Computer Aided Diagnosis Telecare System. Lecture Notes in Computer Science, 2012, , 278-281.	1.3	19
84	Telematics integrated system to perform drugs prescription and administration reducing adverse drug events. , 2012, 2012, 6082-5.		2
85	A Smart RFID Device for Drugs Administration. Pharmaceutica Analytica Acta, 2012, s15, .	0.2	3
86	Health technology management: A database analysis as support of technology managers in hospitals. Technology and Health Care, 2011, 19, 445-454.	1.2	19
87	A methodology aimed to guarantee technology continuity in health structures. , 2011, 2011, 1213-6.		2
88	An RFId Smart Container to Perform Drugs Administration Reducing Adverse Drug Events. IFMBE Proceedings, 2011, , 679-682.	0.3	12
89	Dual-Frequency Active RFID Solution for Tracking Patients in a Children's Hospital. Design Method, Test Procedure, Risk Analysis, and Technical Solution. Proceedings of the IEEE, 2010, 98, 1656-1662.	21.3	19
90	Innovative Medical Shelter for Medical Response. Prehospital and Disaster Medicine, 2010, 25, S62-S62.	1.3	0

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91	Electromagnetic Interferences (EMI) from Active RFId on Critical Care Equipment. IFMBE Proceedings, 2010, , 991-994.	0.3	16
92	Medical software management: A failure analysis approach for maintenance and safety plan. , 2010, 2010, 454-7.		2
93	Longitudinal expandable shelter for medical response during disasters. American Journal of Disaster Medicine, 2010, 5, 221-227.	0.3	0
94	RFId Technologies for the Hospital. How to Choose the Right One and Plan the Right Solution?. , 2009, , .		3
95	Custom active RFID solution for children tracking and identifying in a resuscitation ward. , 2009, 2009, 5223-6.		13
96	SEMIO: an expert system for monitoring critical hospital infrastructures. IFMBE Proceedings, 2009, , 267-270.	0.3	3
97	Hospital-Based HTA for medical software. IFMBE Proceedings, 2009, , 492-494.	0.3	0
98	RFId-based tracking and safety system. IFMBE Proceedings, 2009, , 188-191.	0.3	1
99	Analysis and management of the risks related to the collection, processing and distribution of peripheral blood haematopoietic stem cells. Blood Transfusion, 2009, 7, 3-17.	0.4	28
100	Patients tracking and identifying inside hospital: A multilayer method to plan an RFId solution. , 2008, 2008, 1462-5.		23
101	DSS for Field Hospitals Planning. Technological and Functional Aspects. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3589-92.	0.5	0
102	The role of bioengineer in hospital upkeep and development. , 2007, , 3641-3644.		6
103	Hospital health care offer. A monitoring multidisciplinar approach. , 2007, , 3685-3688.		11
104	A hospital structural and technological performance indicators set. , 2007, , 752-755.		6
105	A QFD-based approach to quality measurement in health care. , 2007, , 1102-1106.		3
106	SEMANTIC WEB TECHNOLOGIES MEET BIM FOR ACCESSING AND UNDERSTANDING CULTURAL HERITAGE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W9, 381-388.	0.2	17