

Jose Garcia

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,040
citations

361413

20
h-index

477307

29
g-index

61
all docs

61
docs citations

61
times ranked

1116
citing authors

#	ARTICLE	IF	CITATIONS
1	A three stage ontology-driven solution to provide personalized care to chronic patients at home. Journal of Biomedical Informatics, 2013, 46, 516-529.	4.3	71
2	Clinical Assessment of Wireless ECG Transmission in Real-Time Cardiac Telemonitoring. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 1144-1152.	3.2	69
3	Lessons learned after a three-year store and forward teledermatology experience using internet: Strengths and limitations. International Journal of Medical Informatics, 2012, 81, 332-343.	3.3	65
4	Microservice chatbot architecture for chronic patient support. Journal of Biomedical Informatics, 2020, 102, 103305.	4.3	65
5	Trends and challenges of the emerging technologies toward interoperability and standardization in e-health communications. , 2011, 49, 182-188.		46
6	ECG-based detection of body position changes in ischemia monitoring. IEEE Transactions on Biomedical Engineering, 2003, 50, 677-685.	4.2	42
7	Biometric Authentication Using the PPG: A Long-Term Feasibility Study. Sensors, 2018, 18, 1525.	3.8	42
8	Automatic Real-Time ECG Coding Methodology Guaranteeing Signal Interpretation Quality. IEEE Transactions on Biomedical Engineering, 2008, 55, 2519-2527.	4.2	35
9	Coronary artery disease diagnosis based on exercise electrocardiogram indexes from repolarisation, depolarisation and heart rate variability. Medical and Biological Engineering and Computing, 2003, 41, 561-571.	2.8	34
10	Enhanced Real-Time ECG Coder for Packetized Telecardiology Applications. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 229-236.	3.2	33
11	A Review on Digital ECG Formats and the Relationships Between Them. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 432-444.	3.2	33
12	The ISO/EN 13606 Standard for the Interoperable Exchange of Electronic Health Records. Journal of Healthcare Engineering, 2011, 2, 1-24.	1.9	32
13	Designing an Architecture for Monitoring Patients at Home: Ontologies and Web Services for Clinical and Technical Management Integration. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 896-906.	6.3	31
14	Setting up a telemedicine service for remote real-time video-EEG consultation in La Rioja (Spain). International Journal of Medical Informatics, 2012, 81, 404-414.	3.3	26
15	SPIHT-Based Echocardiogram Compression: Clinical Evaluation and Recommendations of Use. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 103-112.	6.3	25
16	Remote processing server for ECG-based clinical diagnosis support. IEEE Transactions on Information Technology in Biomedicine, 2002, 6, 277-284.	3.2	24
17	Implementation of an end-to-end standard-based patient monitoring solution. IET Communications, 2008, 2, 181.	2.2	22
18	Seamless Integration of ISO/IEEE11073 Personal Health Devices and ISO/EN13606 Electronic Health Records into an End-to-End Interoperable Solution. Telemedicine Journal and E-Health, 2010, 16, 993-1004.	2.8	22

#	ARTICLE	IF	CITATIONS
19	Secure information embedding into 1D biomedical signals based on SPIHT. Journal of Biomedical Informatics, 2013, 46, 653-664.	4.3	22
20	Temporal evolution of traditional versus transformed ECG-Based indexes in patients with induced myocardial ischemia. Journal of Electrocardiology, 2000, 33, 37-47.	0.9	21
21	Enhanced Protocol for Real-Time Transmission of Echocardiograms Over Wireless Channels. IEEE Transactions on Biomedical Engineering, 2012, 59, 3212-3220.	4.2	21
22	Analysis of ISO/IEEE 11073 built-in security and its potential IHE-based extensibility. Journal of Biomedical Informatics, 2016, 60, 270-285.	4.3	21
23	Interoperability in Digital Electrocardiography: Harmonization of ISO/IEEE x73-PHD and SCP-ECG. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 1303-1317.	3.2	20
24	An autonomic ontology-based approach to manage information in home-based scenarios: From theory to practice. Data and Knowledge Engineering, 2013, 87, 185-205.	3.4	20
25	An Integrated Healthcare Information System for End-to-End Standardized Exchange and Homogeneous Management of Digital ECG Formats. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 518-529.	3.2	18
26	Implementation Methodology for Interoperable Personal Health Devices With Low-Voltage Low-Power Constraints. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 398-408.	3.2	16
27	Standard-compliant real-time transmission of ECGs: Harmonization of ISO/IEEE 11073-PHD and SCP-ECG. , 2009, 2009, 4635-8.		13
28	A Simple Method for Guaranteeing ECG Quality in Real-Time Wavelet Lossy Coding. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.7	12
29	Towards improving usage and management of supplies in healthcare: An ontology-based solution for sharing knowledge. Expert Systems With Applications, 2014, 41, 6261-6273.	7.6	12
30	A clinical distortion index for compressed echocardiogram evaluation: recommendations for Xvid codec. Physiological Measurement, 2009, 30, 429-440.	2.1	11
31	Validation of a Virtual Assistant for Improving Medication Adherence in Patients with Comorbid Type 2 Diabetes Mellitus and Depressive Disorder. International Journal of Environmental Research and Public Health, 2021, 18, 12056.	2.6	11
32	Active Methodologies in a Queueing Systems Course for Telecommunication Engineering Studies. IEEE Transactions on Education, 2010, 53, 405-412.	2.4	10
33	An SNMP-Based Solution to Enable Remote ISO/IEEE 11073 Technical Management. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 709-719.	3.2	10
34	A robust and simple security extension for the medical standard SCP-ECG. Journal of Biomedical Informatics, 2013, 46, 142-151.	4.3	10
35	On the Guarantee of Reconstruction Quality in ECG Wavelet Codecs. , 2006, 2006, 6461-4.		8
36	Data management in home scenarios using an autonomic ontology-based approach. , 2012, , .		7

#	ARTICLE	IF	CITATIONS
37	Virtual Assistant Prototype for Managing Medication Using Messaging Platforms. IFMBE Proceedings, 2020, , 954-961.	0.3	7
38	Feasibility of a telemedicine framework for collaborative pacemaker follow-up. Journal of Telemedicine and Telecare, 2007, 13, 341-347.	2.7	6
39	Real-Time Echocardiogram Transmission Protocol Based on Regions and Visualization Modes. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1668-1677.	6.3	6
40	Bots in messaging platforms, a new paradigm in healthcare delivery: application to custom prescription in dermatology. IFMBE Proceedings, 2018, , 185-188.	0.3	6
41	The Effects of Wireless Channel Errors on the Quality of Real Time Ultrasound Video Transmission. , 2006, 2006, 6457-60.		5
42	Design and evaluation of a wireless decision-support system for heart rate variability study in haemodialysis follow-up procedures. Computer Methods and Programs in Biomedicine, 2007, 88, 273-282.	4.7	5
43	Introducing keytagging, a novel technique for the protection of medical image-based tests. Journal of Biomedical Informatics, 2015, 56, 8-29.	4.3	5
44	Resources Variability in m-Health Services: An Adaptive Method for QoS Control. , 2008, , .		4
45	On the Seamless, Harmonized Use of ISO/IEEE11073 and OpenEHR. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 872-884.	6.3	4
46	HEAT: A tool to develop, analyze and monitor clinical pathways. , 2017, , .		3
47	Building Standardized and Secure Mobile Health Services Based on Social Media. Electronics (Switzerland), 2020, 9, 2208.	3.1	3
48	Oblivious Inspection: On the Confrontation between System Security and Data Privacy at Domain Boundaries. Security and Communication Networks, 2020, 2020, 1-9.	1.5	2
49	A Study on the Impacts of Slot Types and Training Data on Joint Natural Language Understanding in a Spanish Medication Management Assistant Scenario. Sensors, 2022, 22, 2364.	3.8	2
50	SCP-ECG in an ISO/IEEE 11073-PHD world: Store-and-Forward transmission and messaging part. , 2009, , .		1
51	Evaluation of Embeddings in Medication Domain for Spanish Language Using Joint Natural Language Understanding. IFMBE Proceedings, 2021, , 510-517.	0.3	1
52	Clinical Quality Guarantee in Real-time ECG Compression. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 39-42.	0.5	0
53	Analysis of Capacity Estimation Methods for Real-Time Applications in Internet Accesses. , 2008, , .		0
54	Evaluation Methodology for the Technical Viability of E-Health Services. IEEE MultiMedia, 2012, 19, 38-47.	1.7	0

#	ARTICLE	IF	CITATIONS
55	Secure and efficient coding of biomedical signals, periodic measurements and contextual data in body area networks. , 2014, , .		0
56	Secure and Compact Image-Based Storage Format for DICOM Multiframe Echocardiogram Video. IFMBE Proceedings, 2016, , 1111-1116.	0.3	0
57	Patient Identification Workflow for Seamless EHR Access During Patient Follow-Up. IFMBE Proceedings, 2021, , 962-967.	0.3	0
58	Authorizing Third-Party Applications Served through Messaging Platforms. Sensors, 2021, 21, .	3.8	0
59	Automatic Image Characterization of Psoriasis Lesions. Mathematics, 2021, 9, 2974.	2.2	0
60	Authorizing Third-Party Applications Served through Messaging Platforms. Sensors, 2021, 21, 5716.	3.8	0