

# JosÃ© Luis FernÃ¡ndez-AlemÃ¡n

## List of Publications by Year in descending order

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Version: 2024-02-01

107  
papers

3,655  
citations

304743

22  
h-index

155660

55  
g-index

115  
all docs

115  
docs citations

115  
times ranked

4316  
citing authors

#	ARTICLE	IF	CITATIONS
1	Taking the pulse of a classroom with a gamified audience response system. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 213, 106459.	4.7	11
2	Evaluating a gamification proposal for learning usability heuristics: Heureka. <i>International Journal of Human Computer Studies</i> , 2022, 161, 102774.	5.6	8
3	Reviewing the features and functionalities of contraception mPHRs. <i>Health Policy and Technology</i> , 2022, 11, 100633.	2.5	1
4	Energy efficiency in software: A case study on sustainability in personal health records. <i>Journal of Cleaner Production</i> , 2021, 282, 124262.	9.3	12
5	A Study on the Relationship between Usability of GUIs and Power Consumption of a PC: The Case of PHRs. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 1385.	2.6	2
6	Requirements Engineering Tools: An Evaluation. <i>IEEE Software</i> , 2021, 38, 17-24.	1.8	8
7	Investigating the Impact of Usability on Energy Efficiency of Web-based Personal Health Records. <i>Journal of Medical Systems</i> , 2021, 45, 65.	3.6	1
8	Intracranial pressure analysis software: A mapping study and proposal. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 209, 106334.	4.7	4
9	A systematic mapping study for ensemble classification methods in cardiovascular disease. <i>Artificial Intelligence Review</i> , 2021, 54, 2827-2861.	15.7	11
10	Effects of Gamification on the Benefits of Student Response Systems in Learning of Human Anatomy: Three Experimental Studies. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 13210.	2.6	11
11	Software vulnerabilities overview: A descriptive study. <i>Tsinghua Science and Technology</i> , 2020, 25, 270-280.	6.1	9
12	5Ws of green and sustainable software. <i>Tsinghua Science and Technology</i> , 2020, 25, 401-414.	6.1	22
13	Mobile health applications for postnatal care: Review and analysis of functionalities and technical features. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 184, 105114.	4.7	31
14	Missing data techniques in classification for cardiovascular dysautonomias diagnosis. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 2863-2878.	2.8	6
15	Systematic Mapping Study on Remote Sensing in Agriculture. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3456.	2.5	25
16	A mapping study of ensemble classification methods in lung cancer decision support systems. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 2177-2193.	2.8	12
17	Data preprocessing for heart disease classification: A systematic literature review. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 195, 105635.	4.7	56
18	Energy Efficiency and Usability of Web-Based Personal Health Records. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 25-35.	0.6	1

#	ARTICLE	IF	CITATIONS
19	Software Requirement Catalog on Acceptability, Usability, Internationalization and Sustainability for Contraception mPHRs. Lecture Notes in Computer Science, 2020, , 894-905.	1.3	2
20	Design and Development of a Mobile App for Accessible Beach Tourism Information for People with Disabilities. International Journal of Environmental Research and Public Health, 2019, 16, 2131.	2.6	24
21	A Requirements Catalog of Mobile Personal Health Records for Prenatal Care. Lecture Notes in Computer Science, 2019, , 483-495.	1.3	5
22	Homogeneous and heterogeneous ensemble classification methods in diabetes disease: a review. , 2019, 2019, 3956-3959.		5
23	Cloud service as the driver for universityâ€™s software engineering programs digital transformation. Procedia Computer Science, 2019, 149, 215-222.	2.0	5
24	Sizing Prenatal mPHRs using COSMIC Measurement Method. Journal of Medical Systems, 2019, 43, 319.	3.6	3
25	Green IT and sustainable technology development: Bibliometric overview. Sustainable Development, 2019, 27, 613-636.	12.5	13
26	Reviewing ensemble classification methods in breast cancer. Computer Methods and Programs in Biomedicine, 2019, 177, 89-112.	4.7	127
27	Sustainable Accessibility: A Mobile App for Helping People with Disabilities to Search Accessible Shops. International Journal of Environmental Research and Public Health, 2019, 16, 620.	2.6	15
28	COSMIC Functional Size Measurement of Mobile Personal Health Records for Pregnancy Monitoring. Advances in Intelligent Systems and Computing, 2019, , 24-33.	0.6	3
29	Blood4Life: A Mobile Solution to Recruit and Retain Blood Donors Through Gamification and Trans-Theoretical Model. Advances in Intelligent Systems and Computing, 2019, , 3-12.	0.6	5
30	Applying trans-theoretical model for blood donation among Spanish adults: a cross-sectional study. BMC Public Health, 2019, 19, 1724.	2.9	7
31	A Systematic Mapping Study of Data Preparation in Heart Disease Knowledge Discovery. Journal of Medical Systems, 2019, 43, 17.	3.6	11
32	Systematic mapping study of data miningâ€‘based empirical studies in cardiology. Health Informatics Journal, 2019, 25, 741-770.	2.1	11
33	Standards-Based Sustainability Requirements for Healthcare Services in Smart Cities. Computer Communications and Networks, 2018, , 299-317.	0.8	2
34	Reusable Software Usability Specifications for mHealth Applications. Journal of Medical Systems, 2018, 42, 45.	3.6	19
35	Sustainability requirements for connected health applications. Journal of Software: Evolution and Process, 2018, 30, e1922.	1.6	15
36	Surveying the Environmental and Technical Dimensions of Sustainability in Software Development Companies. Applied Sciences (Switzerland), 2018, 8, 2312.	2.5	4

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37	Energy Efficiency of Personal Health Records. Proceedings (mdpi), 2018, 2, 510.	0.2	0
38	The Effect of Green Software: A Study of Impact Factors on the Correctness of Software. Sustainability, 2018, 10, 3471.	3.2	10
39	On the Risks and Safeguards for Requirements Engineering in Global Software Development: Systematic Literature Review and Quantitative Assessment. IEEE Access, 2018, 6, 59628-59656.	4.2	25
40	Software project management approaches for global software development: a systematic mapping study. Tsinghua Science and Technology, 2018, 23, 690-714.	6.1	18
41	Evaluating the Privacy Policies of Mobile Personal Health Records for Pregnancy Monitoring. Journal of Medical Systems, 2018, 42, 144.	3.6	24
42	A systematic map of medical data preprocessing in knowledge discovery. Computer Methods and Programs in Biomedicine, 2018, 162, 69-85.	4.7	37
43	Automated support for reuse-based requirements engineering in global software engineering. Journal of Software: Evolution and Process, 2017, 29, e1873.	1.6	8
44	Gamified Mobile Blood Donation Applications. Lecture Notes in Computer Science, 2017, , 165-176.	1.3	13
45	Estimation of Costs and Time for the Development of Distributed Software. Computer Communications and Networks, 2017, , 25-42.	0.8	2
46	A systematic review of gamification in e-Health. Journal of Biomedical Informatics, 2017, 71, 31-48.	4.3	606
47	E-health internationalization requirements for audit purposes. Computer Methods and Programs in Biomedicine, 2017, 144, 49-60.	4.7	23
48	ISO/IEC 25010 Based Evaluation of Free Mobile Personal Health Records for Pregnancy Monitoring. , 2017, , .		9
49	Knowledge discovery in cardiology: A systematic literature review. International Journal of Medical Informatics, 2017, 97, 12-32.	3.3	57
50	A Reusable Requirements Catalog for Internationalized and Sustainable Blood Donation Apps. , 2017, , .		6
51	Requirements for a mobile personal health record to improve cardiovascular healthcare services. , 2017, , .		1
52	A Computer-Aided Detection System for Digital Chest Radiographs. Journal of Healthcare Engineering, 2016, 2016, 1-9.	1.9	12
53	Experiment design of free pregnancy monitoring mobile personal health records quality evaluation. , 2016, , .		11
54	Requirements specification of an e-health solution to improve cardiovascular healthcare services in Morocco. , 2016, , .		4

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55	Software project management tools in global software development: a systematic mapping study. SpringerPlus, 2016, 5, 2006.	1.2	21
56	The evaluation of i-SIDRA â a tool for intelligent feedback â in a course on the anatomy of the locomotor system. International Journal of Medical Informatics, 2016, 94, 172-181.	3.3	14
57	Mobile personal health records for pregnancy monitoring functionalities: Analysis and potential. Computer Methods and Programs in Biomedicine, 2016, 134, 121-135.	4.7	48
58	Calcification detection of abdominal aorta in CT images and 3D visualization in VR devices. , 2016, 2016, 4157-4160.		2
59	Are the expected benefits of requirements reuse hampered by distance? An experiment. SpringerPlus, 2016, 5, 2097.	1.2	1
60	Identifying risks of software project management in Global Software Development: An integrative framework. , 2016, , .		17
61	An Empirical Study of Neural Network-Based Audience Response Technology in a Human Anatomy Course for Pharmacy Students. Journal of Medical Systems, 2016, 40, 85.	3.6	7
62	A Framework for Evaluating the Software Product Quality of Pregnancy Monitoring Mobile Personal Health Records. Journal of Medical Systems, 2016, 40, 50.	3.6	25
63	Effects of Using Requirements Catalogs on Effectiveness and Productivity of Requirements Specification in a Software Project Management Course. IEEE Transactions on Education, 2016, 59, 105-118.	2.4	8
64	Are mobile blood donation applications green?. , 2015, , .		6
65	Frameworks for risk management in GSD projects: A survey. , 2015, , .		4
66	Mobile personal health records for cardiovascular patients. , 2015, , .		12
67	A preliminary study on the evaluation of software product quality of pregnancy monitoring mPHRs. , 2015, , .		4
68	Valoraci3n del nivel de conocimientos y su adecuaci3n en materia de RCP en el personal sanitario de los servicios de urgencias hospitalarios de la Comunidad Aut3noma de la Regi3n de Murcia. Enfermeria Global, 2015, 14, 230.	0.4	15
69	Technical solutions for mitigating security threats caused by health professionals in clinical settings. , 2015, 2015, 1389-92.		3
70	Follow-me: A new start-and-stop method for visual animal tracking in biology research. , 2015, 2015, 755-8.		5
71	Empirical Studies on Usability of mHealth Apps: A Systematic Literature Review. Journal of Medical Systems, 2015, 39, 1.	3.6	683
72	Analysis of health professional security behaviors in a real clinical setting: An empirical study. International Journal of Medical Informatics, 2015, 84, 454-467.	3.3	38

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73	Free Blood Donation Mobile Applications. Journal of Medical Systems, 2015, 39, 52.	3.6	45
74	Compliance of Blood Donation Apps with Mobile OS Usability Guidelines. Journal of Medical Systems, 2015, 39, 63.	3.6	34
75	Requirements engineering education: a systematic mapping study. Requirements Engineering, 2015, 20, 119-138.	3.1	101
76	Predicting Software Product Quality: A Systematic Mapping Study. Computacion Y Sistemas, 2015, 19, .	0.3	6
77	Applying ISO/IEC 25010 on Mobile Personal Health Records. , 2015, , .		25
78	Electronic health records for cardiovascular medicine. , 2014, 2014, 1354-7.		11
79	Assessing the privacy policies in mobile personal health records. , 2014, 2014, 4956-9.		16
80	Examining the Benefits of Learning Based on an Audience Response System When Confronting Emergency Situations. CIN - Computers Informatics Nursing, 2014, 32, 207-213.	0.5	6
81	Mutation Testing. IEEE Software, 2014, 31, 30-35.	1.8	41
82	Mobile PHRs Compliance with Android and iOS Usability Guidelines. Journal of Medical Systems, 2014, 38, 81.	3.6	62
83	Seguridad y Privacidad en Carpetas Personales de Salud para Android e iOS. RISTI - Revista Iberica De Sistemas E Tecnologias De Informacao, 2014, .	0.2	2
84	Exploring the Use of information and communication technologies and social networks among university nursing faculty staff. An opinion survey. Investigacion Y Educacion En Enfermeria, 2014, 32, 438-450.	0.8	3
85	Free Web-based Personal Health Records: An Analysis of Functionality. Journal of Medical Systems, 2013, 37, 9990.	3.6	44
86	Validating Second-Order Mutation at System Level. IEEE Transactions on Software Engineering, 2013, 39, 570-587.	5.6	29
87	Security and privacy in electronic health records: A systematic literature review. Journal of Biomedical Informatics, 2013, 46, 541-562.	4.3	494
88	Software Quality Requirements: A Systematic Mapping Study. , 2013, , .		7
89	Knowledge Clustering Using a Neural Network in a Course on Medical-Surgical Nursing. Communications in Computer and Information Science, 2012, , 385-394.	0.5	0
90	Evaluation and Neuronal Network-Based Classification of the PHRs Privacy Policies. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
91	Neural network-based data analysis for medical-surgical nursing learning. , 2012, 2012, 6036-9.		0
92	Internationalization requirements for e-learning audit purposes. , 2012, , .		12
93	Requirements engineering tools: Capabilities, survey and assessment. Information and Software Technology, 2012, 54, 1142-1157.	4.4	81
94	A survey of requirements engineering education. , 2012, , .		6
95	An analysis of free Web-based PHRs functionalities and I18n. , 2012, 2012, 1282-5.		4
96	Are Personal Health Records Safe? A Review of Free Web-Accessible Personal Health Record Privacy Policies. Journal of Medical Internet Research, 2012, 14, e114.	4.3	60
97	Learning systems development using reusable standard-based requirements catalogs. , 2011, , .		12
98	Effects of competitive computer-assisted learning versus conventional teaching methods on the acquisition and retention of knowledge in medical surgical nursing students. Nurse Education Today, 2011, 31, 866-871.	3.3	55
99	Effects of Response-Driven Feedback in Computer Science Learning. IEEE Transactions on Education, 2011, 54, 501-508.	2.4	22
100	Automated Assessment in a Programming Tools Course. IEEE Transactions on Education, 2011, 54, 576-581.	2.4	62
101	Assessing the HIPAA standard in practice: PHR privacy policies. , 2011, 2011, 2380-3.		14
102	SAMtool, a tool for deducing and implementing loop patterns. , 2010, , .		5
103	Evaluating Student Response Driven Feedback in a Programming Course. , 2010, , .		3
104	A course on algorithms and data structures using on-line judging. , 2009, , .		14
105	Deducing Loop Patterns in CS1: A Comparative Study. , 2009, , .		3
106	A course on algorithms and data structures using on-line judging. SIGCSE Bulletin, 2009, 41, 45-49.	0.1	15
107	An Experience on Ada Programming Using On-Line Judging. Lecture Notes in Computer Science, 2009, , 75-89.	1.3	4