

# 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	Empirical Studies on Usability of mHealth Apps: A Systematic Literature Review. Journal of Medical Systems, 2015, 39, 1.	3.6	683
2	A systematic review of gamification in e-Health. Journal of Biomedical Informatics, 2017, 71, 31-48.	4.3	606
3	Security and privacy in electronic health records: A systematic literature review. Journal of Biomedical Informatics, 2013, 46, 541-562.	4.3	494
4	Reviewing ensemble classification methods in breast cancer. Computer Methods and Programs in Biomedicine, 2019, 177, 89-112.	4.7	127
5	Requirements engineering education: a systematic mapping study. Requirements Engineering, 2015, 20, 119-138.	3.1	101
6	Requirements engineering tools: Capabilities, survey and assessment. Information and Software Technology, 2012, 54, 1142-1157.	4.4	81
7	Automated Assessment in a Programming Tools Course. IEEE Transactions on Education, 2011, 54, 576-581.	2.4	62
8	Mobile PHRs Compliance with Android and iOS Usability Guidelines. Journal of Medical Systems, 2014, 38, 81.	3.6	62
9	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
10	Knowledge discovery in cardiology: A systematic literature review. International Journal of Medical Informatics, 2017, 97, 12-32.	3.3	57
11	Data preprocessing for heart disease classification: A systematic literature review. Computer Methods and Programs in Biomedicine, 2020, 195, 105635.	4.7	56
12	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
13	Mobile personal health records for pregnancy monitoring functionalities: Analysis and potential. Computer Methods and Programs in Biomedicine, 2016, 134, 121-135.	4.7	48
14	Free Blood Donation Mobile Applications. Journal of Medical Systems, 2015, 39, 52.	3.6	45
15	Free Web-based Personal Health Records: An Analysis of Functionality. Journal of Medical Systems, 2013, 37, 9990.	3.6	44
16	Mutation Testing. IEEE Software, 2014, 31, 30-35.	1.8	41
17	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
18	A systematic map of medical data preprocessing in knowledge discovery. Computer Methods and Programs in Biomedicine, 2018, 162, 69-85.	4.7	37

#	ARTICLE	IF	CITATIONS
19	Compliance of Blood Donation Apps with Mobile OS Usability Guidelines. Journal of Medical Systems, 2015, 39, 63.	3.6	34
20	Mobile health applications for postnatal care: Review and analysis of functionalities and technical features. Computer Methods and Programs in Biomedicine, 2020, 184, 105114.	4.7	31
21	Validating Second-Order Mutation at System Level. IEEE Transactions on Software Engineering, 2013, 39, 570-587.	5.6	29
22	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
23	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
24	Systematic Mapping Study on Remote Sensing in Agriculture. Applied Sciences (Switzerland), 2020, 10, 3456.	2.5	25
25	Applying ISO/IEC 25010 on Mobile Personal Health Records. , 2015, , .		25
26	Evaluating the Privacy Policies of Mobile Personal Health Records for Pregnancy Monitoring. Journal of Medical Systems, 2018, 42, 144.	3.6	24
27	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
28	E-health internationalization requirements for audit purposes. Computer Methods and Programs in Biomedicine, 2017, 144, 49-60.	4.7	23
29	Effects of Response-Driven Feedback in Computer Science Learning. IEEE Transactions on Education, 2011, 54, 501-508.	2.4	22
30	5Ws of green and sustainable software. Tsinghua Science and Technology, 2020, 25, 401-414.	6.1	22
31	Software project management tools in global software development: a systematic mapping study. SpringerPlus, 2016, 5, 2006.	1.2	21
32	Reusable Software Usability Specifications for mHealth Applications. Journal of Medical Systems, 2018, 42, 45.	3.6	19
33	Software project management approaches for global software development: a systematic mapping study. Tsinghua Science and Technology, 2018, 23, 690-714.	6.1	18
34	Identifying risks of software project management in Global Software Development: An integrative framework. , 2016, , .		17
35	Assessing the privacy policies in mobile personal health records. , 2014, 2014, 4956-9.		16
36	A course on algorithms and data structures using on-line judging. SIGCSE Bulletin, 2009, 41, 45-49.	0.1	15

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37	Valoración del nivel de conocimientos y su adecuación en materia de RCP en el personal sanitario de los servicios de urgencias hospitalarios de la Comunidad Autónoma de la Región de Murcia. Enfermería Global, 2015, 14, 230.	0.4	15
38	Sustainability requirements for connected health applications. Journal of Software: Evolution and Process, 2018, 30, e1922.	1.6	15
39	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
40	A course on algorithms and data structures using on-line judging. , 2009, , .		14
41	Assessing the HIPAA standard in practice: PHR privacy policies. , 2011, 2011, 2380-3.		14
42	The evaluation of i-SIDRA “a tool for intelligent feedback” in a course on the anatomy of the locomotor system. International Journal of Medical Informatics, 2016, 94, 172-181.	3.3	14
43	Gamified Mobile Blood Donation Applications. Lecture Notes in Computer Science, 2017, , 165-176.	1.3	13
44	Green IT and sustainable technology development: Bibliometric overview. Sustainable Development, 2019, 27, 613-636.	12.5	13
45	Learning systems development using reusable standard-based requirements catalogs. , 2011, , .		12
46	Internationalization requirements for e-learning audit purposes. , 2012, , .		12
47	Mobile personal health records for cardiovascular patients. , 2015, , .		12
48	A Computer-Aided Detection System for Digital Chest Radiographs. Journal of Healthcare Engineering, 2016, 2016, 1-9.	1.9	12
49	A mapping study of ensemble classification methods in lung cancer decision support systems. Medical and Biological Engineering and Computing, 2020, 58, 2177-2193.	2.8	12
50	Energy efficiency in software: A case study on sustainability in personal health records. Journal of Cleaner Production, 2021, 282, 124262.	9.3	12
51	Electronic health records for cardiovascular medicine. , 2014, 2014, 1354-7.		11
52	Experiment design of free pregnancy monitoring mobile personal health records quality evaluation. , 2016, , .		11
53	A Systematic Mapping Study of Data Preparation in Heart Disease Knowledge Discovery. Journal of Medical Systems, 2019, 43, 17.	3.6	11
54	Systematic mapping study of data mining“based empirical studies in cardiology. Health Informatics Journal, 2019, 25, 741-770.	2.1	11

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55	A systematic mapping study for ensemble classification methods in cardiovascular disease. Artificial Intelligence Review, 2021, 54, 2827-2861.	15.7	11
56	Taking the pulse of a classroom with a gamified audience response system. Computer Methods and Programs in Biomedicine, 2022, 213, 106459.	4.7	11
57	Effects of Gamification on the Benefits of Student Response Systems in Learning of Human Anatomy: Three Experimental Studies. International Journal of Environmental Research and Public Health, 2021, 18, 13210.	2.6	11
58	The Effect of Green Software: A Study of Impact Factors on the Correctness of Software. Sustainability, 2018, 10, 3471.	3.2	10
59	ISO/IEC 25010 Based Evaluation of Free Mobile Personal Health Records for Pregnancy Monitoring. , 2017, , .		9
60	Software vulnerabilities overview: A descriptive study. Tsinghua Science and Technology, 2020, 25, 270-280.	6.1	9
61	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
62	Automated support for reuse-based requirements engineering in global software engineering. Journal of Software: Evolution and Process, 2017, 29, e1873.	1.6	8
63	Requirements Engineering Tools: An Evaluation. IEEE Software, 2021, 38, 17-24.	1.8	8
64	Evaluating a gamification proposal for learning usability heuristics: Heureka. International Journal of Human Computer Studies, 2022, 161, 102774.	5.6	8
65	Software Quality Requirements: A Systematic Mapping Study. , 2013, , .		7
66	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
67	Applying trans-theoretical model for blood donation among Spanish adults: a cross-sectional study. BMC Public Health, 2019, 19, 1724.	2.9	7
68	A survey of requirements engineering education. , 2012, , .		6
69	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
70	Are mobile blood donation applications green?. , 2015, , .		6
71	Missing data techniques in classification for cardiovascular dysautonomias diagnosis. Medical and Biological Engineering and Computing, 2020, 58, 2863-2878.	2.8	6
72	Predicting Software Product Quality: A Systematic Mapping Study. Computacion Y Sistemas, 2015, 19, .	0.3	6

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73	A Reusable Requirements Catalog for Internationalized and Sustainable Blood Donation Apps. , 2017, , .		6
74	SAMtool, a tool for deducing and implementing loop patterns. , 2010, , .		5
75	Follow-me: A new start-and-stop method for visual animal tracking in biology research. , 2015, 2015, 755-8.		5
76	A Requirements Catalog of Mobile Personal Health Records for Prenatal Care. Lecture Notes in Computer Science, 2019, , 483-495.	1.3	5
77	Homogeneous and heterogeneous ensemble classification methods in diabetes disease: a review. , 2019, 2019, 3956-3959.		5
78	Cloud service as the driver for universityâ€™s software engineering programs digital transformation. Procedia Computer Science, 2019, 149, 215-222.	2.0	5
79	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
80	An analysis of free Web-based PHRs functionalities and I18n. , 2012, 2012, 1282-5.		4
81	Frameworks for risk management in GSD projects: A survey. , 2015, , .		4
82	A preliminary study on the evaluation of software product quality of pregnancy monitoring mPHRs. , 2015, , .		4
83	Requirements specification of an e-health solution to improve cardiovascular healthcare services in Morocco. , 2016, , .		4
84	Surveying the Environmental and Technical Dimensions of Sustainability in Software Development Companies. Applied Sciences (Switzerland), 2018, 8, 2312.	2.5	4
85	Intracranial pressure analysis software: A mapping study and proposal. Computer Methods and Programs in Biomedicine, 2021, 209, 106334.	4.7	4
86	An Experience on Ada Programming Using On-Line Judging. Lecture Notes in Computer Science, 2009, , 75-89.	1.3	4
87	Deducing Loop Patterns in CS1: A Comparative Study. , 2009, , .		3
88	Evaluating Student Response Driven Feedback in a Programming Course. , 2010, , .		3
89	Evaluation and Neuronal Network-Based Classification of the PHRs Privacy Policies. , 2012, , .		3
90	Technical solutions for mitigating security threats caused by health professionals in clinical settings. , 2015, 2015, 1389-92.		3

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91	Sizing Prenatal mPHRs using COSMIC Measurement Method. Journal of Medical Systems, 2019, 43, 319.	3.6	3
92	COSMIC Functional Size Measurement of Mobile Personal Health Records for Pregnancy Monitoring. Advances in Intelligent Systems and Computing, 2019, , 24-33.	0.6	3
93	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
94	Calcification detection of abdominal aorta in CT images and 3D visualization in VR devices. , 2016, 2016, 4157-4160.		2
95	Estimation of Costs and Time for the Development of Distributed Software. Computer Communications and Networks, 2017, , 25-42.	0.8	2
96	Standards-Based Sustainability Requirements for Healthcare Services in Smart Cities. Computer Communications and Networks, 2018, , 299-317.	0.8	2
97	A Study on the Relationship between Usability of GUIs and Power Consumption of a PC: The Case of PHRs. International Journal of Environmental Research and Public Health, 2021, 18, 1385.	2.6	2
98	Software Requirement Catalog on Acceptability, Usability, Internationalization and Sustainability for Contraception mPHRs. Lecture Notes in Computer Science, 2020, , 894-905.	1.3	2
99	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
100	Are the expected benefits of requirements reuse hampered by distance? An experiment. SpringerPlus, 2016, 5, 2097.	1.2	1
101	Investigating the Impact of Usability on Energy Efficiency of Web-based Personal Health Records. Journal of Medical Systems, 2021, 45, 65.	3.6	1
102	Energy Efficiency and Usability of Web-Based Personal Health Records. Advances in Intelligent Systems and Computing, 2020, , 25-35.	0.6	1
103	Requirements for a mobile personal health record to improve cardiovascular healthcare services. , 2017, , .		1
104	Reviewing the features and functionalities of contraception mPHRs. Health Policy and Technology, 2022, 11, 100633.	2.5	1
105	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
106	Neural network-based data analysis for medical-surgical nursing learning. , 2012, 2012, 6036-9.		0
107	Energy Efficiency of Personal Health Records. Proceedings (mdpi), 2018, 2, 510.	0.2	0