Ambrosio Toval

List of Publications by Year
in descending order

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Version: 2024-02-01

95 papers	3,092 citations	304602 22 h-index	189801 50 g-index

101 all docs	101 docs citations	101 times ranked	3247 citing authors

#	Article	IF	Citations
1	Empirical Studies on Usability of mHealth Apps: A Systematic Literature Review. Journal of Medical Systems, 2015, 39, 1.	2.2	683
2	Security and privacy in electronic health records: A systematic literature review. Journal of Biomedical Informatics, 2013, 46, 541-562.	2.5	494
3	A systematic review of UML model consistency management. Information and Software Technology, 2009, 51, 1631-1645.	3.0	149
4	Requirements engineering education: a systematic mapping study. Requirements Engineering, 2015, 20, 119-138.	2.1	101
5	On the generation of requirements specifications from software engineering models: A systematic literature review. Information and Software Technology, 2009, 51, 1291-1307.	3.0	90
6	Requirements Reuse for Improving Information Systems Security: A Practitionerâ€™s Approach. Requirements Engineering, 2002, 6, 205-219.	2.1	87
7	Requirements engineering tools: Capabilities, survey and assessment. Information and Software Technology, 2012, 54, 1142-1157.	3.0	81
8	A Systematic Review and Comparison of Security Ontologies. , 2008, , .		73
9	Mobile PHRs Compliance with Android and iOS Usability Guidelines. Journal of Medical Systems, 2014, 38, 81.	2.2	62
10	Are Personal Health Records Safe? A Review of Free Web-Accessible Personal Health Record Privacy Policies. Journal of Medical Internet Research, 2012, 14, e114.	2.1	60
11	Basis for an integrated security ontology according to a systematic review of existing proposals. Computer Standards and Interfaces, 2011, 33, 372-388.	3.8	49
12	Mobile personal health records for pregnancy monitoring functionalities: Analysis and potential. Computer Methods and Programs in Biomedicine, 2016, 134, 121-135.	2.6	48
13	Integrating usability requirements that can be evaluated in design time into Model Driven Engineering of Web Information Systems. Advances in Engineering Software, 2009, 40, 1306-1317.	1.8	47
14	Free Blood Donation Mobile Applications. Journal of Medical Systems, 2015, 39, 52.	2.2	45
15	Requirements Engineering Tools. IEEE Software, 2011, 28, 86-91.	2.1	44
16	Free Web-based Personal Health Records: An Analysis of Functionality. Journal of Medical Systems, 2013, 37, 9990.	2.2	44
17	Mutation Testing. IEEE Software, 2014, 31, 30-35.	2.1	41
18	Analysis of health professional security behaviors in a real clinical setting: An empirical study. International Journal of Medical Informatics, 2015, 84, 454-467.	1.6	38

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19	Personal Health Records: New Means to Safely Handle Health Data?. Computer, 2012, 45, 27-33.	1.2	37
20	Compliance of Blood Donation Apps with Mobile OS Usability Guidelines. Journal of Medical Systems, 2015, 39, 63.	2.2	34
21	Risks and Safeguards for the Requirements Engineering Process in Global Software Development. , 2009, , .		26
22	Security in cloud computing: A mapping study. Computer Science and Information Systems, 2015, 12, 161-184.	0.7	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.	2.6	25
24	Applying ISO/IEC 25010 on Mobile Personal Health Records. , 2015, , .		25
25	Evaluating the Privacy Policies of Mobile Personal Health Records for Pregnancy Monitoring. Journal of Medical Systems, 2018, 42, 144.	2.2	24
26	REMM-Studio: an Integrated Model-Driven Environment for Requirements Specification, Validation and Formatting.. Journal of Object Technology, 2007, 6, 437.	0.8	24
27	E-health internationalization requirements for audit purposes. Computer Methods and Programs in Biomedicine, 2017, 144, 49-60.	2.6	23
28	5Ws of green and sustainable software. Tsinghua Science and Technology, 2020, 25, 401-414.	4.1	22
29	Software project management tools in global software development: a systematic mapping study. SpringerPlus, 2016, 5, 2006.	1.2	21
30	Emerging OCL tools. Software and Systems Modeling, 2003, 2, 248-261.	2.2	19
31	Reusable Software Usability Specifications for mHealth Applications. Journal of Medical Systems, 2018, 42, 45.	2.2	19
32	Software project management approaches for global software development: a systematic mapping study. Tsinghua Science and Technology, 2018, 23, 690-714.	4.1	18
33	Reusing Requirements in Global Software Engineering. , 2013, , 171-197.		17
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	Sustainability requirements for connected health applications. Journal of Software: Evolution and Process, 2018, 30, e1922.	1.2	15

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37	Towards Use Case and Conceptual Models through Business Modeling. Lecture Notes in Computer Science, 2000, , 281-294.	1.0	14
38	Assessing the HIPAA standard in practice: PHR privacy policies. , 2011, 2011, 2380-3.		14
39	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.	1.6	14
40	Green IT and sustainable technology development: Bibliometric overview. Sustainable Development, 2019, 27, 613-636.	6.9	13
41	A Personal Data Audit Method through Requirements Engineering. Computer Standards and Interfaces, 2010, 32, 166-178.	3.8	12
42	Learning systems development using reusable standard-based requirements catalogs. , 2011, , .		12
43	Internationalization requirements for e-learning audit purposes. , 2012, , .		12
44	Mobile personal health records for cardiovascular patients. , 2015, , .		12
45	Energy efficiency in software: A case study on sustainability in personal health records. Journal of Cleaner Production, 2021, 282, 124262.	4.6	12
46	An Empirical Study of the Nesting Level of Composite States Within UML Statechart Diagrams. Lecture Notes in Computer Science, 2005, , 12-22.	1.0	12
47	Transforming and tracing reused requirements models to home automation models. Information and Software Technology, 2013, 55, 941-965.	3.0	11
48	Electronic health records for cardiovascular medicine. , 2014, 2014, 1354-7.		11
49	Experiment design of free pregnancy monitoring mobile personal health records quality evaluation. , 2016, , .		11
50	Software Cost Estimation for Global Software Development - A Systematic Map and Review Study. , 2015, , .		11
51	Taking the pulse of a classroom with a gamified audience response system. Computer Methods and Programs in Biomedicine, 2022, 213, 106459.	2.6	11
52	The London Charter and the Seville Principles as sources of requirements for e-archaeology systems development purposes. Virtual Archaeology Review, 2013, 4, 205.	0.8	11
53	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.	1.2	11
54	The Effect of Green Software: A Study of Impact Factors on the Correctness of Software. Sustainability, 2018, 10, 3471.	1.6	10

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55	Computer systems simulation in education: Description of an experience. Computers and Education, 1987, 11, 293-303.	5.1	9
56	ISO/IEC 25010 Based Evaluation of Free Mobile Personal Health Records for Pregnancy Monitoring. , 2017, , .		9
57	Software vulnerabilities overview: A descriptive study. Tsinghua Science and Technology, 2020, 25, 270-280.	4.1	9
58	REMM-Studioâ€‰+â€‰: Modeling Variability to Enable Requirements Reuse. Lecture Notes in Computer Science, 2008, , 530-531.	1.0	8
59	Evaluating Software Product Quality: A Systematic Mapping Study. , 2014, , .		8
60	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.	2.0	8
61	Automated support for reuse-based requirements engineering in global software engineering. Journal of Software: Evolution and Process, 2017, 29, e1873.	1.2	8
62	An integrated domain analysis approach for teleoperated systems. Requirements Engineering, 2009, 14, 27-46.	2.1	7
63	Software Quality Requirements: A Systematic Mapping Study. , 2013, , .		7
64	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.	2.2	7
65	COTSRE: A COmponenTs Selection Method Based on Requirements Engineering. , 2008, , .		6
66	A survey of requirements engineering education. , 2012, , .		6
67	Commonalities and differences between requirements engineering tools: A quantitative approach. Computer Science and Information Systems, 2015, 12, 257-288.	0.7	6
68	Modelling Web-Based Systems Requirements Using WRM. Lecture Notes in Computer Science, 2008, , 122-131.	1.0	6
69	Predicting Software Product Quality: A Systematic Mapping Study. Computacion Y Sistemas, 2015, 19, .	0.2	6
70	A Reusable Requirements Catalog for Internationalized and Sustainable Blood Donation Apps. , 2017, , .		6
71	Personal Health Records: New Means to Safely Handle our Health Data?. Computer, 2019, , 1-1.	1.2	6
72	A Requirements Catalog of Mobile Personal Health Records for Prenatal Care. Lecture Notes in Computer Science, 2019, , 483-495.	1.0	5

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73	Cloud service as the driver for universityâ€™s software engineering programs digital transformation. Procedia Computer Science, 2019, 149, 215-222.	1.2	5
74	An MDE modeling framework for measurable goal-oriented requirements. International Journal of Intelligent Systems, 2010, 25, 757-783.	3.3	4
75	An analysis of free Web-based PHRs functionalities and I18n. , 2012, 2012, 1282-5.		4
76	A preliminary study on the evaluation of software product quality of pregnancy monitoring mPHRs. , 2015, , .		4
77	Co-located and distributed natural-language requirements specification: traditional versus reuse-based techniques. Journal of Software: Evolution and Process, 2016, 28, 205-227.	1.2	4
78	Requirements specification of an e-health solution to improve cardiovascular healthcare services in Morocco. , 2016, , .		4
79	Software Cost Attributes in Global Software Development Projects. , 2017, , .		4
80	Surveying the Environmental and Technical Dimensions of Sustainability in Software Development Companies. Applied Sciences (Switzerland), 2018, 8, 2312.	1.3	4
81	Intracranial pressure analysis software: A mapping study and proposal. Computer Methods and Programs in Biomedicine, 2021, 209, 106334.	2.6	4
82	A UML Profile for Modelling Measurable Requirements. Lecture Notes in Computer Science, 2008, , 123-132.	1.0	3
83	Evaluation and Neuronal Network-Based Classification of the PHRs Privacy Policies. , 2012, , .		3
84	Technical solutions for mitigating security threats caused by health professionals in clinical settings. , 2015, 2015, 1389-92.		3
85	Towards a Requirements-Aware Common Web Engineering Metamodel. , 2008, , .		2
86	Estimation of Costs and Time for the Development of Distributed Software. Computer Communications and Networks, 2017, , 25-42.	0.8	2
87	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.	1.2	2
88	Auditing the Governance and Management of Green IT. Journal of Computer Information Systems, 0, , 1-11.	2.0	2
89	Software Requirement Catalog on Acceptability, Usability, Internationalization and Sustainability for Contraception mPHRs. Lecture Notes in Computer Science, 2020, , 894-905.	1.0	2
90	Seguridad y Privacidad en Carpetas Personales de Salud para Android e iOS. RISTI - Revista Iberica De Sistemas E Tecnologias De Informacao, 2014, .	0.1	2

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91	FORMAL VALIDATION AND VERIFICATION OF ATOMIC RESOLUTION MICROSCOPE CONTROL AND TOPOGRAPHY. Cybernetics and Systems, 2001, 32, 851-870.	1.6	1
92	Are the expected benefits of requirements reuse hampered by distance? An experiment. SpringerPlus, 2016, 5, 2097.	1.2	1
93	Requirements for a mobile personal health record to improve cardiovascular healthcare services. , 2017, , .		1
94	Reviewing the features and functionalities of contraception mPHRs. Health Policy and Technology, 2022, 11, 100633.	1.3	1
95	Neural network-based data analysis for medical-surgical nursing learning. , 2012, 2012, 6036-9.		0