

Elisa Yumi Nakagawa

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

904
citations

759233

12
h-index

677142

22
g-index

82
all docs

82
docs citations

82
times ranked

594
citing authors

#	ARTICLE	IF	CITATIONS
1	Software sustainability: Research and practice from a software architecture viewpoint. Journal of Systems and Software, 2018, 138, 174-188.	4.5	103
2	Industry 4.0 reference architectures: State of the art and future trends. Computers and Industrial Engineering, 2021, 156, 107241.	6.3	74
3	RAModel: A Reference Model for Reference Architectures. , 2012, , .		49
4	Quality attributes and quality models for ambient assisted living software systems: A systematic mapping. Information and Software Technology, 2017, 82, 121-138.	4.4	48
5	Reference Architecture and Product Line Architecture: A Subtle But Critical Difference. Lecture Notes in Computer Science, 2011, , 207-211.	1.3	42
6	An aspect-oriented reference architecture for Software Engineering Environments. Journal of Systems and Software, 2011, 84, 1670-1684.	4.5	29
7	Automating the mutation testing of aspect-oriented Java programs. , 2010, , .		27
8	An Investigation into Agile Methods in Embedded Systems Development. Lecture Notes in Computer Science, 2012, , 576-591.	1.3	27
9	BAYESIAN-LEARNING BASED GUIDELINES TO DETERMINE EQUIVALENT MUTANTS. International Journal of Software Engineering and Knowledge Engineering, 2002, 12, 675-689.	0.8	22
10	Checking the architectural feasibility of Systems-of-Systems using formal descriptions. , 2016, , .		22
11	Investigating the effect of design patterns on energy consumption. Journal of Software: Evolution and Process, 2017, 29, e1851.	1.6	17
12	A visual analysis approach to update systematic reviews. , 2014, , .		16
13	Stimuli-SoS: a model-based approach to derive stimuli generators for simulations of systems-of-systems software architectures. Journal of the Brazilian Computer Society, 2017, 23, .	1.3	16
14	Software Architecture Relevance in Open Source Software Evolution: A Case Study. , 2008, , .		15
15	Evaluation of AAL Platforms According to Architecture-Based Quality Attributes. Lecture Notes in Computer Science, 2011, , 264-274.	1.3	15
16	Relevance and perspectives of AAL in Brazil. Journal of Systems and Software, 2013, 86, 985-996.	4.5	14
17	Externalising tacit knowledge of the systematic review process. IET Software, 2013, 7, 298-307.	2.1	14
18	Towards a conceptual model for Software-intensive System-of-Systems. , 2014, , .		12

#	ARTICLE	IF	CITATIONS
19	Characterizing big data software architectures. , 2017, , .		12
20	A process to establish, model and validate missions of systems-of-systems in reference architectures. , 2017, , .		12
21	Proteum/AJ. , 2011, , .		11
22	Reference architectures and variability. , 2012, , .		11
23	Architectural description of embedded systems. , 2012, , .		11
24	Reference Models and Reference Architectures Based on Service-Oriented Architecture: A Systematic Review. Lecture Notes in Computer Science, 2010, , 360-367.	1.3	10
25	Toward Architecture Knowledge Sustainability: Extending System Longevity. IEEE Software, 2017, 34, 108-111.	1.8	10
26	A Systematic Identification of Formal and Semi-Formal Languages and Techniques for Software-Intensive Systems-of-Systems Requirements Modeling. IEEE Systems Journal, 2019, 13, 2201-2212.	4.6	10
27	The Evolution of Design Pattern Grime: An Industrial Case Study. Lecture Notes in Computer Science, 2017, , 165-181.	1.3	10
28	Investigating the Model-Driven Development for Systems-of-Systems. , 2014, , .		9
29	A Reference Architecture Based on Reflection for Self-Adaptive Software. , 2013, , .		9
30	Investigating Quality Trade-offs in Open Source Critical Embedded Systems. , 2015, , .		9
31	Three decades of software reference architectures: A systematic mapping study. Journal of Systems and Software, 2021, 179, 111004.	4.5	9
32	Exploring the use of reference architectures in the development of product line artifacts. , 2011, , .		8
33	An investigation into the development of service-oriented robotic systems. , 2013, , .		8
34	A Systematic Literature Review on Knowledge Representation Approaches for Systems-of-Systems. , 2015, , .		8
35	Two perspectives on reference architecture sustainability. , 2017, , .		8
36	Enabling Continuous Software Engineering for Embedded Systems Architectures with Virtual Prototypes. Lecture Notes in Computer Science, 2018, , 115-130.	1.3	8

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37	Exploring ontologies to support the establishment of reference architectures: An example on software testing. , 2009, , .		7
38	A Typology of Architectural Strategies for Interoperability. , 2019, , .		7
39	A reference architecture for satellite control systems. Innovations in Systems and Software Engineering, 2019, 15, 139-153.	2.1	7
40	Conceptualization of a System-of-Systems in the Defense Domain: An Experience Report in the Brazilian Scenario. IEEE Systems Journal, 2019, 13, 2098-2107.	4.6	7
41	A Service-Oriented Reference Architecture for Software Testing Tools. Lecture Notes in Computer Science, 2011, , 405-421.	1.3	7
42	A Comparative Analysis of Reference Architectures for Healthcare in the Ambient Assisted Living Domain. , 2015, , .		6
43	Towards a Taxonomy of Software Mediators for Systems-of-Systems. , 2018, , .		6
44	Model-based engineering & simulation of software-intensive systems-of-systems. , 2018, , .		6
45	Software mediators as first-class entities of systems-of-systems software architectures. Journal of the Brazilian Computer Society, 2019, 25, .	1.3	6
46	Towards dynamic processes-of-business processes: a new understanding. Business Process Management Journal, 2021, 27, 1545-1568.	4.2	6
47	Using systematic mapping to explore software architecture knowledge. , 2010, , .		5
48	A knowledge-based framework for reference architectures. , 2012, , .		5
49	OntolAD. , 2015, , .		5
50	A Quality Model for AAL Software Systems. , 2016, , .		5
51	A Reference Architecture to support the development of mobile applications based on self-adaptive services. Pervasive and Mobile Computing, 2019, 53, 33-48.	3.3	5
52	Context aware mobile learning: A systematic mapping study. Education and Information Technologies, 2021, 26, 2033-2052.	5.7	5
53	A Framework Based on Learning Techniques for Decision-making in Self-adaptive Software. , 2015, , .		5
54	Towards a process to design product line architectures based on reference architectures. , 2013, , .		4

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55	Variability viewpoint to describe reference architectures. , 2014, , .		4
56	A Reference Model as Automated Process for Software Adaptation at Runtime. IEEE Latin America Transactions, 2015, 13, 214-221.	1.6	4
57	Software architecture and reference architecture of software-intensive systems and systems-of-systems. , 2017, , .		4
58	Architecture Drivers for Trustworthy Interoperability in Industry 4.0. IEEE Systems Journal, 2021, 15, 5454-5463.	4.6	4
59	Reporting an Experience on the Establishment of a Quality Model for Systems-of-Systems. , 2015, , .		4
60	Contributions and Perspectives in Architectures of Software Testing Environments. , 2011, , .		3
61	Perspectives and challenges of reference architectures in multi software product line. , 2013, , .		3
62	A Reference Architecture for Healthcare Supportive Home Systems. , 2015, , .		3
63	Software Architecture for Health Care Supportive Home Systems to Assist Patients with Diabetes Mellitus. , 2019, , .		3
64	Evaluating variability at the software architecture level. , 2019, , .		3
65	Assessment of Reference Architectures and Reference Models for Ambient Assisted Living Systems. International Journal of E-Health and Medical Communications, 2020, 11, 17-36.	1.6	3
66	Supporting the analysis of bug prevalence in software product lines with product genealogy. , 2012, , .		3
67	Architectural requirements as basis to quality of software engineering environments. IEEE Latin America Transactions, 2008, 6, 260-266.	1.6	2
68	Automating Cataloging and Discovery of Services for Service-Oriented Robotic Systems. , 2014, , .		2
69	Foreword: Towards Reference Architectures for Systems-of-Systems. , 2015, , .		2
70	A meta-process to construct software architectures for system of systems. , 2015, , .		2
71	Architectural Solutions for Self-Adaptive Systems. Computer, 2020, 53, 47-59.	1.1	2
72	vrBPMN* and FM: An Approach to Model Business Process Line. Lecture Notes in Business Information Processing, 2015, , 130-141.	1.0	2

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73	Ark: a constraint-based method for architectural synthesis of smart systems. <i>Software and Systems Modeling</i> , 2020, 19, 741-762.	2.7	1
74	Global and Latin American female participation in evidence-based software engineering: a systematic mapping study. <i>Journal of the Brazilian Computer Society</i> , 2021, 27, .	1.3	1
75	Architectural Support for Context-Aware Mobile Learning Applications. <i>Education and Information Technologies</i> , 2022, 27, 3723-3741.	5.7	1
76	Towards a Process to Design Architectures of Service-Oriented Robotic Systems. <i>Lecture Notes in Computer Science</i> , 2014, , 218-225.	1.3	1
77	Towards the Open Source Reference Architectures. , 2011, , .		0
78	3rd International Workshop on Software Engineering for Systems-of-Systems (SESoS 2015). , 2015, , .		0
79	Exploring together software architecture and software testing: A systematic mapping. , 2016, , .		0
80	An Investigation of Knowledge Gaps of Graduate Students Regarding Safety-Critical Systems Development: A Controlled Experiment. <i>IEEE Transactions on Education</i> , 2021, , 1-9.	2.4	0
81	RoboSeT: A Tool to Support Cataloging and Discovery of Services for Service-Oriented Robotic Systems. <i>Communications in Computer and Information Science</i> , 2015, , 114-132.	0.5	0