Hausi A MÃ¼ller

List of Publications by Year
in descending order

87	2,933	394421	330143
papers	citations	19 h-index	37 g-index

90	90	90	1409
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Software Engineering for Self-Adaptive Systems: A Research Roadmap. Lecture Notes in Computer Science, 2009, , 1-26.	1.3	624
2	Software Engineering for Self-Adaptive Systems: A Second Research Roadmap. Lecture Notes in Computer Science, 2013, , 1-32.	1.3	317
3	A reverse-engineering approach to subsystem structure identification. Journal of Software: Evolution and Process, 1993, 5, 181-204.	0.4	270
4	Cognitive design elements to support the construction of a mental model during software exploration. Journal of Systems and Software, 1999, 44, 171-185.	4.5	175
5	The software bookshelf. IBM Systems Journal, 1997, 36, 564-593.	3.0	161
6	Reverse engineering. , 2000, , .		134
7	Structural redocumentation: a case study. IEEE Software, 1995, 12, 46-54.	1.8	109
8	Shimba-an environment for reverse engineering Java software systems. Software - Practice and Experience, 2001, 31, 371-394.	3.6	100
9	PROGRAMMABLE REVERSE ENGINEERING. International Journal of Software Engineering and Knowledge Engineering, 1994, 04, 501-520.	0.8	91
10	A framework for evaluating quality-driven self-adaptive software systems. , 2011, , .		82
11	How do program understanding tools affect how programmers understand programs?. Science of Computer Programming, 2000, 36, 183-207.	1.9	79
12	Using Models at Runtime to Address Assurance for Self-Adaptive Systems. Lecture Notes in Computer Science, 2014, , 101-136.	1.3	63
13	UNDERSTANDING SOFTWARE SYSTEMS USING REVERSE ENGINEERING TECHNOLOGY. , 1995, , 240-252.		55
14	Towards Practical Runtime Verification and Validation of Self-Adaptive Software Systems. Lecture Notes in Computer Science, 2013, , 108-132.	1.3	49
15	Software Engineering for Self-Adaptive Systems: Research Challenges in the Provision of Assurances. Lecture Notes in Computer Science, 2017, , 3-30.	1.3	49
16	ACon: A learning-based approach to deal with uncertainty in contextual requirements at runtime. Information and Software Technology, 2016, 70, 85-99.	4.4	42
17	Requirements of Software Visualization Tools: A Literature Survey. , 2007, , .		39
18	Rigiâ€"An environment for software reverse engineering, exploration, visualization, and redocumentation. Science of Computer Programming, 2010, 75, 247-263.	1.9	38

#	Article	IF	Citations
19	Managing Dynamic Context to Optimize Smart Interactions and Services. Lecture Notes in Computer Science, 2010, , 289-318.	1.3	34
20	Combining service-orientation and software product line engineering: A systematic mapping study. Information and Software Technology, 2013, 55, 1845-1859.	4.4	34
21	DYNAMICO: A Reference Model for Governing Control Objectives and Context Relevance in Self-Adaptive Software Systems. Lecture Notes in Computer Science, 2013, , 265-293.	1.3	31
22	The Rise of Intelligent Cyber-Physical Systems. Computer, 2017, 50, 7-9.	1.1	26
23	Customizing a Fisheye View Algorithm to Preserve the Mental Map. Journal of Visual Languages and Computing, 1999, 10, 245-267.	1.8	25
24	Improving context-awareness in self-adaptation using the DYNAMICO reference model. , 2013, , .		24
25	Graph layout adjustment strategies. Lecture Notes in Computer Science, 1996, , 487-499.	1.3	23
26	MANIPULATING AND DOCUMENTING SOFTWARE STRUCTURES. Series on Software Engineering and Knowledge Engineering, 1996, , 244-263.	0.1	22
27	Quality Criteria and an Analysis Framework for Self-Healing Systems. , 2007, , .		16
28	Autonomic Computing Now You See It, Now You Donâ€™t. Lecture Notes in Computer Science, 2009, , 32-54.	1.3	16
29	The Tools Perspective on Software Reverse Engineering. Advances in Computers, 2010, 79, 189-290.	1.6	15
30	Personalized information structures. , 1993, , .		13
31	Bits of History, Challenges for the Future and Autonomic Computing Technology. , 2006, , .		12
32	Monitoring in adaptive systems using reflection. , 2008, , .		12
33	What Can Control Theory Teach Us About Assurances in Self-Adaptive Software Systems?. Lecture Notes in Computer Science, 2017, , 90-134.	1.3	12
34	Characterizing maintainability concerns in autonomic element design. , 2008, , .		10
35	Self-Healing Distributed Scheduling Platform. , 2011, , .		10
36	Optimizing run-time SOA governance through context-driven SLAs and dynamic monitoring. , 2011, , .		9

#	Article	IF	Citations
37	Self-adaptive applications: on the development of personalized web-tasking systems. , 2014, , .		9
38	Internet of Things: Part 2. , 2017, 55, 114-115.		8
39	Efficient recompilation of module interfaces in a software development environment. ACM SIGPLAN Notices, 1987, 22, 180-189.	0.2	6
40	A WSAD-Based Fact Extractor for J2EE Web Projects. , 2007, , .		6
41	Web Service Assurance: The Notion and the Issues. Future Internet, 2012, 4, 92-109.	3.8	6
42	Migrating to SOA. , 2010, , .		5
43	Toward Smarter Autoflight Control System Infrastructure. Journal of Aerospace Information Systems, 2018, 15, 353-365.	1.4	5
44	DevOps Round-Trip Engineering: Traceability from Dev to Ops and Back Again. Lecture Notes in Computer Science, 2019, , 73-88.	1.3	5
45	Research challenges in management and compliance of policies on the web. , 2008, , .		4
46	SEAMS 2009: Software engineering for adaptive and self-managing systems. , 2009, , .		4
47	Static-Discovery Dynamic-Selection (SDDS) Approach to Web Service Discovery. , 2009, , .		4
48	Investigating the Concept of Consumers as Producers in Virtual Worlds: Looking through Social, Technical, Economic, and Legal Lenses. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 187-202.	0.3	4
49	Policy and Legal Challenges of VirtualWorlds and Social Network Sites. , 2008, , .		3
50	Characterizing problems for realizing policies in self-adaptive and self-managing systems. , 2011, , .		3
51	Towards Personalized Web-Tasking: Task Simplification Challenges. , 2013, , .		3
52	Adaptive Management of Energy Consumption Using Adaptive Runtime Models. , 2015, , .		3
53	DevOpsâ€™ Shift-Left in Practice: An Industrial Case of Application. Lecture Notes in Computer Science, 2019, , 205-220.	1.3	3
54	A domain-customizable SVG-based graph editor for software visualizations. , 2008, , .		2

#	Article	IF	Citations
55	Fifth Workshop on Software Engineering for Adaptive and Self-Managing Systems (SEAMS 2010). , 2010, , .		2
56	Software engineering for the industrial Internet: Situation-aware smart applications. , 2013, , .		2
57	2nd International workshop on green and sustainable software (GREENS 2013). , 2013, , .		2
58	Designing Run-time Evolution for Dependable and Resilient Cyber-Physical Systems Using Digital Twins. Journal of Integrated Design and Process Science, 2021, , 1-32.	0.5	2
59	Dependencies Analysis of Azureus with Rigi: Tool Demo Challenge. , 2007, , .		1
60	A Lightweight Taxonomy to Characterize Component-Based Systems. , 2007, , .		1
61	SEAMS 2007: Software Engineering for Adaptive and Self-Managing Systems. , 2007, , .		1
62	Leveraging Conceptual Models of Trust in Automated Systems to Promote `Appropriate Trust' in Autonomic Systems. , 2007, , .		1
63	Towards a Process for Developing Maintenance Tools in Academia. , 2008, , .		1
64	On supporting dynamic web service selection with histogramming. , 2011, , .		1
65	PALTask Chat: A Personalized Automated Context Aware Web Resources Listing Tool. , 2013, , .		1
66	RPC automation: Making legacy code relevant. , 2013, , .		1
67	Legal aspects of web systems. , 2013, , .		1
68	Towards Smarter Task Applications. , 2013, , .		1
69	Personalized Web-Tasking Applications: An Online Grocery Shopping Prototype. , 2014, , .		1
70	Context-Based Face Recognition for Smart Web Tasking Applications. , 2014, , .		1
71	Internet of Things: Part 1 [Guest editorial]. , 2016, 54, 12-13.		1
72	Internet of Things: Part 3. , 2017, 55, 108-109.		1

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73	Complexity of Virtual Worldsâ€™ Terms of Service. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 79-90.	0.3	1
74	The SmarterContext Ontology and Its Application to the Smart Internet: A Smarter Commerce Case Study. Lecture Notes in Computer Science, 2013, , 151-184.	1.3	1
75	Differences between Modula-2 and Pascal. ACM SIGPLAN Notices, 1984, 19, 32-39.	0.2	1
76	Designing Run-time Evolution for Dependable and Resilient Cyber-Physical Systems Using Digital Twins. Journal of Integrated Design and Process Science, 2022, 25, 48-79.	0.5	1
77	Efficient recompilation of module interfaces in a software development environment. , 1987, , .		0
78	Presentation Of Software Development Information In K2. Infor, 1989, 27, 206-220.	0.6	0
79	DEAS 2005. , 2005, , .		0
80	2nd International Workshop on Advanced Software Development Tools and Techniques (WASDeTT): Tools for software maintenance, visualization, and reverse engineering. , 2008, , .		0
81	Guest Editors' Introduction to the Special Section from the International Conference on Software Maintenance. IEEE Transactions on Software Engineering, 2009, 35, 450-451.	5.6	0
82	Integrated system diagnosis and root cause analysis. , 2010, , .		0
83	Dynamic context-aware applications. , 2010, , .		0
84	Net-Casting model an information seeking model for automated information seeking processes. , 2011, , .		0
85	SERVICES 2015 Visionary Track on Web Tasking. , 2015, , .		0
86	4th International Workshop on Green and Sustainable Software (GREENS 2015). , 2015, , .		0
87	Internet of Things: Part 4. , 2017, 55, 14-15.		0