

# Thomas Vogel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5806670/publications.pdf>

Version: 2024-02-01

38  
papers

1,009  
citations

1039406

9  
h-index

839053

18  
g-index

39  
all docs

39  
docs citations

39  
times ranked

636  
citing authors

#	ARTICLE	IF	CITATIONS
1	Software Engineering for Self-Adaptive Systems: A Second Research Roadmap. Lecture Notes in Computer Science, 2013, , 1-32.	1.0	317
2	Model-Driven Engineering of Self-Adaptive Software with EUREMA. ACM Transactions on Autonomous and Adaptive Systems, 2014, 8, 1-33.	0.4	84
3	Adaptation and abstract runtime models. , 2010, , .		52
4	Software Engineering Meets Control Theory. , 2015, , .		49
5	Software Engineering for Self-Adaptive Systems: Research Challenges in the Provision of Assurances. Lecture Notes in Computer Science, 2017, , 3-30.	1.0	49
6	Control Strategies for Self-Adaptive Software Systems. ACM Transactions on Autonomous and Adaptive Systems, 2017, 11, 1-31.	0.4	48
7	Software Engineering Processes for Self-Adaptive Systems. Lecture Notes in Computer Science, 2013, , 51-75.	1.0	45
8	Incremental Model Synchronization for Efficient Run-Time Monitoring. Lecture Notes in Computer Science, 2010, , 124-139.	1.0	33
9	Mechanisms for Leveraging Models at Runtime in Self-adaptive Software. Lecture Notes in Computer Science, 2014, , 19-46.	1.0	30
10	A learning approach to enhance assurances for real-time self-adaptive systems. , 2018, , .		25
11	The Role of Models and Megamodels at Runtime. Lecture Notes in Computer Science, 2011, , 224-238.	1.0	24
12	A language for feedback loops in self-adaptive systems: Executable runtime megamodels. , 2012, , .		24
13	mRUBiS. , 2018, , .		24
14	Model-driven architectural monitoring and adaptation for autonomic systems. , 2009, , .		22
15	Planning as Optimization: Dynamically Discovering Optimal Configurations for Runtime Situations. , 2019, , .		20
16	Efficient Utility-Driven Self-Healing Employing Adaptation Rules for Large Dynamic Architectures. , 2017, , .		18
17	A Testing Scheme for Self-Adaptive Software Systems with Architectural Runtime Models. , 2015, , .		13
18	How do we Evaluate Self-adaptive Software Systems?: A Ten-Year Perspective of SEAMS. , 2021, , .		11

#	ARTICLE	IF	CITATIONS
19	Graph Transformations for MDE, Adaptation, and Models at Runtime. Lecture Notes in Computer Science, 2012, , 137-191.	1.0	11
20	Architectural Concepts for Self-aware Computing Systems. , 2017, , 109-147.		10
21	State of the Art in Architectures for Self-aware Computing Systems. , 2017, , 237-275.		10
22	A hybrid approach combining control theory and AI for engineering self-adaptive systems. , 2020, , .		10
23	Improving Scalability and Reward of Utility-Driven Self-Healing for Large Dynamic Architectures. ACM Transactions on Autonomous and Adaptive Systems, 2020, 14, 1-41.	0.4	9
24	Does Diversity Improve the Test Suite Generation for Mobile Applications?. Lecture Notes in Computer Science, 2019, , 58-74.	1.0	8
25	Towards bridging the gap between control and self-adaptive system properties. , 2020, , .		8
26	Challenges in Composing and Decomposing Assurances for Self-Adaptive Systems. Lecture Notes in Computer Science, 2017, , 64-89.	1.0	7
27	Taming Uncertainty in the Assurance Process of Self-Adaptive Systems: a Goal-Oriented Approach. , 2019, , .		6
28	Challenges for Verifying and Validating Scientific Software in Computational Materials Science. , 2019, , .		6
29	A systematic literature review on counterexample explanation. Information and Software Technology, 2022, 145, 106800.	3.0	5
30	Comprehensive support for management of enterprise applications. , 2008, , .		4
31	Towards Smart Systems of Systems. Lecture Notes in Computer Science, 2015, , 1-29.	1.0	4
32	Counterexample Interpretation for Contract-Based Design. Lecture Notes in Computer Science, 2020, , 99-114.	1.0	4
33	Towards Linking Adaptation Rules to the Utility Function for Dynamic Architectures. , 2016, , .		3
34	A comprehensive empirical evaluation of generating test suites for mobile applications with diversity. Information and Software Technology, 2021, 130, 106436.	3.0	3
35	A Domain Specific Language to Support HAZOP Studies of SysML Models. Lecture Notes in Computer Science, 2019, , 47-62.	1.0	3
36	Generic Architectures for Individual Self-aware Computing Systems. , 2017, , 149-189.		3

#	ARTICLE	IF	CITATIONS
37	Micro-controllers: Promoting Structurally Flexible Controllers in Self-Aware Computing Systems. , 2020, , .		0
38	Bet and Run for Test Case Generation. Lecture Notes in Computer Science, 2020, , 204-219.	1.0	0