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## An architecture-based approach to self-adaptive software

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112	Coordination of View Maintenance Policy Adaptation Decisions: A Negotiation-Based Reasoning Approach. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 116-133	0.9	2
111	Model-Integrated Embedded Systems. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 99-115	0.9	9
110	Adaptable Architectural Middleware for Programming-in-the-Small-and-Many. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 162-181	0.9	11
109	Increasing System Dependability through Architecture-Based Self-Repair. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 61-89	0.9	56
108	Component-Based Autonomic Management for Legacy Software. <b>2009</b> , 83-104		5
107	Engineering Multi-agent Systems Anno 2025. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 3-16	0.9	3
106	Using Models at Runtime to Address Assurance for Self-Adaptive Systems. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 101-136	0.9	39
105	Variability Dependencies in Product Family Engineering. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 81-97	0.9	12
104	Component-Oriented Approaches to Context-Aware Computing. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 84-93	0.9	1
103	Feature-Oriented Analysis and Specification of Dynamic Product Reconfiguration. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 154-165	0.9	9
102	Dynamic System Reconfiguration Via Service Composition for Dependable Computing. <b>2005</b> , 203-224		4
101	Modeling and Verification of Cooperative Self-adaptive Mechatronic Systems. <b>2005</b> , 258-280		10
100	Joint Structural and Temporal Property Specification Using Timed Story Scenario Diagrams. <b>2007</b> , 185-199		12
99	An MDE-SOA Approach to Support Plastic User Interfaces in Ambient Spaces. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 63-72	0.9	6
98	Autonomic Management Policy Specification: From UML to DSML. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 584-599	0.9	2
97	Experiences from Developing a Component Technology Agnostic Adaptation Framework. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 230-245	0.9	4
96	Policy-Based Architectural Adaptation Management: Robotics Domain Case Studies. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 89-108	0.9	9
95	ACCADA: A Framework for Continuous Context-Aware Deployment and Adaptation. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 325-340	0.9	10

94	On the Specification of Non-functional Properties of Systems by Observation. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 296-309	0.9	4
93	Dynamically Adaptive Systems through Automated Model Evolution Using Service Compositions. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 82-89	0.9	1
92	A Novel Adaptive Monitoring Compliance Design Pattern for Autonomic Computing Systems. <b>2011</b> , 250-259		7
91	Adaptive Context Oriented Component-Based Application Middleware (COCA-Middleware). <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 137-151	0.9	4
90	INVISQUE: Technology and Methodologies for Interactive Information Visualization and Analytics in Large Library Collections. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 227-235	0.9	3
89	QoS Contract-Aware Reconfiguration of Component Architectures Using E-Graphs. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 34-52	0.9	6
88	A Conceptual Framework for Adaptation. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 240-254	0.9	48
87	Graph Transformations for MDE, Adaptation, and Models at Runtime. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 137-191	0.9	8
86	Adaptable Transition Systems. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 95-110	0.9	5
85	Towards Predictive Self-optimization by Situation Recognition. <b>2013</b> , 33, 8-9		1
84	Analyzing Latency-Aware Self-Adaptation Using Stochastic Games and Simulations. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , <b>2016</b> , 10, 1-28	1.2	21
83	Designing Adaptive Applications Deployed on Cloud Environments. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , <b>2016</b> , 10, 1-26	1.2	15
82	Self-adaptive quality requirement elicitation process for legacy systems. <b>2017</b> ,		3
81	Improving Scalability and Reward of Utility-Driven Self-Healing for Large Dynamic Architectures. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , <b>2020</b> , 14, 1-41	1.2	5
80	Towards robust self-managed systems. <b>2008</b> , 1		3
79	Component Model Supporting Trustworthiness-Oriented Software Evolution. <b>2011</b> , 22, 17-27		6
78	Online Evolution of Software Services. <b>2011</b> , 34, 318-328		4
77	A Self-Adaptive Software System for Increasing the Reliability and Security of Cyber-Physical Systems. <b>2018</b> , 223-246		6



76	OntoArch Reliability-Aware Software Architecture Design and Experience. <i>Advances in Computer and Electrical Engineering Book Series</i> , 48-74	0.3	1
75	Responding to Ongoing Change. <b>2014</b> , 5, 48-70		2
74	Non-Intrusive Autonomic Approach with Self-Management Policies Applied to Legacy Infrastructures for Performance Improvements. <b>2011</b> , 2, 58-76		2
73	Anticipating Requirements Changes-Using Futurology in Requirements Elicitation. <b>2012</b> , 3, 89-111		3
72	Understanding Requirement Engineering for Context-Aware Service-Based Applications. <b>2012</b> , 05, 536-544		3
71	Software Mode Changes for Continuous Motion Tracking. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 161-180		1
70	Combining Meta-level and Logic-Based Constructs in Web Personalization. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 57-64	0.9	
69	Taylor, Richard Newton.		
68	An Abstract Architecture for Dependable and Flexible Distributed Applications. <b>2002</b> , 23-37		
67	From Wetware to Software: A Cybernetic Perspective of Self-adaptive Software. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 257-280	0.9	4
66	Challenges in Making Pervasive Systems Dependable. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 186-190	0.9	3
65	A Logic-Based Infrastructure for Reconfiguring Applications. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 17-36	0.9	5
64	A Self-optimizing Run-Time Architecture for Configurable Dependability of Services. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 25-50	0.9	7
63	I-RMI: Performance Isolation in Information Flow Applications. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 375-389	0.9	3
62	Timing Driven Architectural Adaptation. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 242-255	0.9	
61	Towards Embedding Evolution into a Multi-agent Environment. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 508-513	0.9	
60	Proactive Self-healing System for Application Maintenance in Ubiquitous Computing Environment. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 430-440	0.9	
59	Self-management System Based on Self-healing Mechanism. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 372-382	0.9	2

58	A Self-healing Approach to Designing and Deploying Complex, Distributed and Concurrent Software Systems. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 3-13	0.9	1
57	Policy-based management of middleware for distributed sensor applications. <b>2008</b> ,		
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55	Using QoS-Contracts to Drive Architecture-Centric Self-adaptation. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 102-118	0.9	1
54	Modelling Changes and Data Transfers for Architecture-Based Runtime Evolution of Distributed Applications. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 392-400	0.9	
53	Modelling the Asynchronous Dynamic Evolution of Architectural Types. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 198-229	0.9	1
52	Dynamic evolution mechanism oriented to service-object. <b>2010</b> , 30, 1974-1977		
51	On Model-Driven Engineering of Reconfigurable Digital Control Hardware Systems. <b>2011</b> , 190-208		
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46	Utility-Based Self-Adaption with Environment Specific Quality Models. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 107-118	0.9	2
45	A Graph Grammar-Based Dynamic Reconfiguration for Virtualized Web Service-Based Composite Architectures. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 181-196	0.9	
44	Towards User Tailoring of Self-Adaptation in Ubiquitous Computing. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 324-353	0.9	
43	Self-Adaptive System Architecture Modeling Based on DoDAF. <b>2013</b> , 538-542		
42	Software Engineering for Adaptive Embedded Systems. 159-190		
41	DRAAS: Dynamically Reconfigurable Architecture for Autonomic Services. <b>2014</b> , 483-505		1

40	Schedulability of Real-Time Systems with Enhanced Safety. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 391-398	0.2	1
39	Adaptive Pipelined Neural Network Structure in Self-aware Internet of Things. <b>2014</b> , 111-136		
38	Requirements to Pervasive System Continuous Deployment. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 457-468	0.9	
37	A White Box Perspective on Behavioural Adaptation. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 552-581	0.9	
36	A New MARTE Extension to Address Adaptation Mechanisms in Scheduling View. <b>2016</b> , 27-43		
35	Adoption, Implementation and Management of Self-Adaptive and Self-Managing Software Systems in Pakistan. <b>2017</b> , 5, 378-383		
34	SOFTWARE ARCHITECTURE UNDERSTANDABILITY IN OBJECT-ORIENTED SYSTEMS. <b>2017</b> , 12, 1		
33	Foreword by Nenad Medvidovic Behold the Golden Age of Software Architecture. <b>2017</b> , xxi-xxiii		
32	Continuous Adaptation Management in Collective Intelligence Systems. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 109-125	0.9	0
31	Context-Aware Healthcare Adaptation Model for COPD Diseases. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 307-315	0.9	0
30	Towards highly scalable runtime models with history. <b>2020</b> ,		3
29	Software Patterns to Identify Credit Risk Patterns. <b>2020</b> ,		
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26	Modeling and Verifying Dynamic Architectures with FACTum Studio. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 243-251	0.9	
25	Software Architecture Framework of Healthcare Using Nonfunctional Artifacts. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2020</b> , 31-50	0.3	
24	Non-Intrusive Autonomic Approach with Self-Management Policies Applied to Legacy Infrastructures for Performance Improvements. 105-123		
23	Service Centric Communication. <b>2006</b> , 245-265		

22	Acute Stress Response for Self-optimizing Mechatronic Systems. <b>2006</b> , 157-167		
21	Situation-Aware Based Self-adaptive Architecture for Mission Critical Systems. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 464-475	0.9	
20	Generic Model for Adaptive Systems Realization. <i>International Journal of Organizational and Collective Intelligence</i> , <b>2022</b> , 12, 0-0	0.4	1
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18	The Vision of Self-Management in Cognitive Organic Power Distribution Systems. <i>Energies</i> , <b>2022</b> , 15, 881	3.1	
17	Understanding software architecture erosion: A systematic mapping study. <i>Journal of Software: Evolution and Process</i> ,	1	0
16	Cost-Effective Mission Assurance Engineering Through Simulation. <b>2021</b> ,		
15	Intent-Based Routing in Delay- and Disruption-Tolerant Networks. <i>Lecture Notes in Electrical Engineering</i> , <b>2022</b> , 101-127	0.2	
14	Intent-Based Adaptation Coordination of Highly Decentralized Networked Self-adaptive Systems. <i>Lecture Notes in Electrical Engineering</i> , <b>2022</b> , 69-100	0.2	1
13	A Framework-Based Approach for Flexible Evaluation of Swarm-Intelligent Algorithms. <i>Women in Engineering and Science</i> , <b>2022</b> , 393-412	0.5	
12	Evolution of the Evolutionary Software Development Methods. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 109-116	0.5	
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8	A distributed formal-based model for self-healing behaviors in autonomous systems: from failure detection to self-recovery. <i>Journal of Supercomputing</i> ,	2.5	
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- 3 Assessing Energy Consumption in Data Acquisition from Smart Wearable Sensors in IoT-Based Health Applications. **2022**, ○
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