Colin Atkinson

List of Publications by Year
in descending order

108 papers	2,624 citations	430874 18 h-index	233421 45 g-index
116 all docs	116 docs citations	116 times ranked	1211 citing authors

#	Article	IF	Citations
1	Model-driven development: a metamodeling foundation. IEEE Software, 2003, 20, 36-41.	1.8	627
2	Reducing accidental complexity in domain models. Software and Systems Modeling, 2008, 7, 345-359.	2.7	184
3	The Essence of Multilevel Metamodeling. Lecture Notes in Computer Science, 2001, , 19-33.	1.3	162
4	Code Conjurer: Pulling Reusable Software out of Thin Air. IEEE Software, 2008, 25, 45-52.	1.8	135
5	Rearchitecting the UML infrastructure. ACM Transactions on Modeling and Computer Simulation, 2002, 12, 290-321.	0.8	128
6	An experimental comparison of reading techniques for defect detection in UML design documents. Journal of Systems and Software, 2000, 53, 183-204.	4.5	99
7	A Flexible Infrastructure for Multilevel Language Engineering. IEEE Transactions on Software Engineering, 2009, 35, 742-755.	5.6	67
8	A Practical Approach to Web Service Discovery and Retrieval. , 2007, , .		53
9	Orthographic Software Modeling: A Practical Approach to View-Based Development. Communications in Computer and Information Science, 2010, , 206-219.	0.5	45
10	Melanie. , 2012, , .		39
11	PROCESSES AND PRODUCTS IN A MULTI-LEVEL METAMODELING ARCHITECTURE. International Journal of Software Engineering and Knowledge Engineering, 2001, 11, 761-783.	0.8	37
12	Reducing verification effort in component-based software engineering through built-in testing. Information Systems Frontiers, 2007, 9, 151-162.	6.4	37
13	Concepts for Comparing Modeling Tool Architectures. Lecture Notes in Computer Science, 2005, , 398-413.	1.3	34
14	Profiles in a strict metamodeling framework. Science of Computer Programming, 2002, 44, 5-22.	1.9	33
15	Generalizing perspective-based inspection to handle object-oriented development artifacts. , 1999, , .		32
16	The MORABIT Approach to Runtime Component Testing. , 2006, , .		32
17	Using the Web as a Reuse Repository. Lecture Notes in Computer Science, 2006, , 298-311.	1.3	27
18	Strategies for the Run-Time Testing of Third Party Web Services. , 2007, , .		22

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19	Specifying High-Assurance Services. Computer, 2008, 41, 64-71.	1.1	22
20	Modeling Components and Component-Based Systems in KobrA. Lecture Notes in Computer Science, 2008, , 54-84.	1.3	20
21	Systematic stereotype usage. Software and Systems Modeling, 2003, 2, 153-163.	2.7	18
22	The Level-Agnostic Modeling Language. Lecture Notes in Computer Science, 2011, , 266-275.	1.3	18
23	A multi-level approach to modeling language extension in the Enterprise Systems Domain. Information Systems, 2015, 54, 289-307.	3.6	17
24	Cloud-Aided Software Engineering: Evolving Viable Software Systems Through a Web of Views. Computer Communications and Networks, 2013, , 255-281.	0.8	16
25	Towards a General Component Model for Web-Based Applications. Annals of Software Engineering, 2002, 13, 35-69.	0.5	15
26	Ubiquitous RATs. , 2006, , .		15
27	A Systematic Approach to Connectors in a Multi-level Modeling Environment. Lecture Notes in Computer Science, 2008, , 843-857.	1.3	15
28	A Tour of Language Customization Concepts. Advances in Computers, 2007, 70, 105-161.	1.6	14
29	Supporting Agile Reuse Through Extreme Harvesting. , 2007, , 28-37.		14
30	Automated Creation and Assessment of Component Adapters with Test Cases. Lecture Notes in Computer Science, 2010, , 166-181.	1.3	14
31	More archetypal usage scenarios for software search engines. , 2010, , .		13
32	Orthographic Modeling Environment. , 2008, , 93-96.		13
33	A unifying approach to connections for multi-level modeling. , 2015, , .		12
34	In defence of deep modelling. Information and Software Technology, 2015, 64, 36-51.	4.4	12
35	Typed Business Process Specification. , 2010, , .		11
36	Orthographic Service Modeling. , 2011, , .		11

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37	Utilizing software reuse experience for automated test recommendation. , 2013, , .		11
38	Modeling Language Extension in the Enterprise Systems Domain. , 2013, , .		11
39	An unabridged source code dataset for research in software reuse. , 2013, , .		11
40	Enhancing classic transformation languages to support multi-level modeling. Software and Systems Modeling, 2015, 14, 645-666.	2.7	11
41	Strict Profiles: Why and How. Lecture Notes in Computer Science, 2000, , 309-322.	1.3	11
42	Facilitating Greener IT through Green Specifications. IEEE Software, 2014, 31, 56-63.	1.8	10
43	Fundamental Realization Strategies for Multi-view Specification Environments. , 2015, , .		10
44	Synchronization of Projective Views on a Single-Underlying-Model. , 2015, , .		10
45	Reducing Verification Effort in Component-Based Software Engineering through Built-In Testing. 2006 10th IEEE International Enterprise Distributed Object Computing Conference (EDOC'06), 2006, , .	0.0	9
46	An Evaluation Method for Requirements Engineering Approaches in Distributed Software Development Projects. , 2007, , .		9
47	Lowering the barrier to reuse through test-driven search. , 2009, , .		9
48	Towards a Client-Oriented Model of Types and States in Service-Oriented Development. , 2009, , .		9
49	A Generalized Notion of Platforms for Model-Driven Development. , 2005, , 119-136.		9
50	Symbiotic general-purpose and domain-specific languages. , 2012, , .		8
51	Ranking software components for reuse based on non-functional properties. Information Systems Frontiers, 2016, 18, 825-853.	6.4	8
52	Component Integration through Built-in Contract Testing. Lecture Notes in Computer Science, 2003, , 159-183.	1.3	8
53	The Managed Adapter Pattern: Facilitating Glue Code Generation for Component Reuse. Lecture Notes in Computer Science, 2009, , 211-224.	1.3	8
54	On-the-Fly Emendation of Multi-level Models. Lecture Notes in Computer Science, 2012, , 194-209.	1.3	8

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55	Reuse-Oriented Code Recommendation Systems. , 2014, , 359-386.		8
56	Leveraging software search and reuse with automated software adaptation. , 2012, , .		7
57	A prototype implementation of an orthographic software modeling environment. , 2013, , .		7
58	Model-based regression testing by OCL. International Journal on Software Tools for Technology Transfer, 2017, 19, 115-131.	1.9	7
59	Integrating reuse into the rapid, continuous software engineering cycle through test-driven search. , 2018, , .		7
60	On the Rules for Inheritance in LML. , 2019, , .		7
61	Single Underlying Models for Projectional, Multi-View Environments. , 2019, , .		7
62	Taming the Complexity of Digital Twins. IEEE Software, 2022, 39, 27-32.	1.8	7
63	Concepts for an Ontology-centric Technology Risk Management Architecture in the Banking Industry. , 2006, , .		6
64	Iterative and incremental development of component-based software architectures. , 2012, , .		6
65	Editorial to the theme issue on multi-level modeling. Software and Systems Modeling, 2018, 17, 163-165.	2.7	6
66	A Unified Conceptual Framework for Service-Oriented Computing. Lecture Notes in Computer Science, 2012, , 128-169.	1.3	6
67	Proposing software design recommendations based on component interface intersecting. , 2010, , .		5
68	Search-enhanced testing. , 2011, , .		5
69	A Deep View-Point Language for Projective Modeling. , 2017, , .		5
70	Classifying Approaches for Constructing Single Underlying Models. Communications in Computer and Information Science, 2020, , 350-375.	0.5	5
71	Testing Web-Services Using Test Sheets. , 2010, , .		4
72	Modelling as a Service (MaaS): Minimizing the Environmental Impact of Computing Services. , 2011, , .		4

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73	Towards application-specific impact specifications and GreenSLAs. , 2013, , .		4
74	Towards Orthographic Viewpoints for Enterprise Architecture Modeling. , 2014, , .		4
75	Measuring the Superfluous Functionality in Software Components. , 2015, , .		4
76	Ranking Software Components for Pragmatic Reuse. , 2015, , .		4
77	Single Underlying Models for Projectional, Multi-View Environments. , 2019, , .		4
78	Software Testing Using Test Sheets. , 2010, , .		3
79	Discrepancy discovery in search-enhanced testing. , 2011, , .		3
80	Foundational MDA Patterns for Service-Oriented Computing .. Journal of Object Technology, 2015, 14, 1:1.	0.9	3
81	Melanee and DMLA â€" A Contribution to the MULTI 2021 Collaborative Comparison Challenge. , 2021, , .		3
82	Towards a Unified Conceptual Framework for Service-Oriented Computing. , 2011, , .		2
83	A multi-level modeling environment for SUM-based software engineering. , 2013, , .		2
84	Criteria for Orthographic Viewpoints. , 2014, , .		2
85	Preface to the 1st Workshop on View-Oriented Software Engineering (VoSE). , 2019, , .		2
86	A deep view-point language and framework for projective modeling. Information Systems, 2021, 101, 101440.	3.6	2
87	Level-Agnostic Designation of Model Elements. Lecture Notes in Computer Science, 2014, , 18-34.	1.3	2
88	Deep Instantiation. , 2018, , 1040-1041.		2
89	Simplified View Generation in a Deep View-Based Modeling Environment. Communications in Computer and Information Science, 2020, , 163-179.	0.5	2
90	Context-Sensitive Service Discovery for Mobile Commerce Applications. , 2008, , .		1

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91	The role of congregation in service-oriented development. , 2009, , .		1
92	A platform for diversity-driven test amplification. , 2019, , .		1
93	Automatically Curated Data Sets. , 2019, , .		1
94	On the Efficacy of Dynamic Behavior Comparison for Judging Functional Equivalence. , 2019, , .		1
95	Motivating Use Cases for the Globalization of DSLs. Lecture Notes in Computer Science, 2015, , 21-42.	1.3	1
96	Towards High Integrity UDDI Systems. Lecture Notes in Business Information Processing, 2009, , 350-361.	1.0	1
97	Artifact Representation Techniques for Large-Scale Software Search Engines. , 2013, , 81-101.		1
98	A Trustable Brokerage Solution for Component and Service Markets. Lecture Notes in Computer Science, 2008, , 64-75.	1.3	1
99	Verbesserung der Retrievaleffizienz von Softwarekomponentenmärkten. Business & Information Systems Engineering, 2007, 49, 430-438.	0.4	0
100	Reuse-Oriented Deployment of Software Components: Congregation in Service-Oriented Development. , 2009, , .		0
101	Towards a Language and Framework for Penurious Testing. , 2011, , .		0
102	Reducing the Incidence of Unintended, Human-Caused Information Flows in Enterprise Systems. , 2012, , .		0
103	An Enhanced Graph-Based Infrastructure for Software Search Engines. , 2015, , .		0
104	Message from the ModTools 2016 Workshop Chairs. , 2016, , .		0
105	Green Specifications. Advances in Environmental Engineering and Green Technologies Book Series, 2015, , 1-24.	0.4	0
106	Green Specifications. , 2019, , 683-706.		0
107	Model-Driven Testing with Test Sheets. , 0, , 231-253.		0
108	Controlling View Editability in Projection-Based Modeling Environments. , 2021, , .		0