

Colin Atkinson

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

2,624
citations

430754

18
h-index

233338

45
g-index

116
all docs

116
docs citations

116
times ranked

1211
citing authors

#	ARTICLE	IF	CITATIONS
1	Taming the Complexity of Digital Twins. IEEE Software, 2022, 39, 27-32.	2.1	7
2	A deep view-point language and framework for projective modeling. Information Systems, 2021, 101, 101440.	2.4	2
3	Controlling View Editability in Projection-Based Modeling Environments. , 2021, , .		0
4	Melanee and DMLA " A Contribution to the MULTI 2021 Collaborative Comparison Challenge. , 2021, , .		3
5	Classifying Approaches for Constructing Single Underlying Models. Communications in Computer and Information Science, 2020, , 350-375.	0.4	5
6	Simplified View Generation in a Deep View-Based Modeling Environment. Communications in Computer and Information Science, 2020, , 163-179.	0.4	2
7	A platform for diversity-driven test amplification. , 2019, , .		1
8	Automatically Curated Data Sets. , 2019, , .		1
9	On the Efficacy of Dynamic Behavior Comparison for Judging Functional Equivalence. , 2019, , .		1
10	Preface to the 1st Workshop on View-Oriented Software Engineering (VoSE). , 2019, , .		2
11	On the Rules for Inheritance in LML. , 2019, , .		7
12	Single Underlying Models for Projectional, Multi-View Environments. , 2019, , .		4
13	Green Specifications. , 2019, , 683-706.		0
14	Single Underlying Models for Projectional, Multi-View Environments. , 2019, , .		7
15	Editorial to the theme issue on multi-level modeling. Software and Systems Modeling, 2018, 17, 163-165.	2.2	6
16	Integrating reuse into the rapid, continuous software engineering cycle through test-driven search. , 2018, , .		7
17	Deep Instantiation. , 2018, , 1040-1041.		2
18	Model-based regression testing by OCL. International Journal on Software Tools for Technology Transfer, 2017, 19, 115-131.	1.7	7

#	ARTICLE	IF	CITATIONS
19	A Deep View-Point Language for Projective Modeling. , 2017, , .		5
20	Message from the ModTools 2016 Workshop Chairs. , 2016, , .		0
21	Ranking software components for reuse based on non-functional properties. Information Systems Frontiers, 2016, 18, 825-853.	4.1	8
22	Measuring the Superfluous Functionality in Software Components. , 2015, , .		4
23	A unifying approach to connections for multi-level modeling. , 2015, , .		12
24	Fundamental Realization Strategies for Multi-view Specification Environments. , 2015, , .		10
25	An Enhanced Graph-Based Infrastructure for Software Search Engines. , 2015, , .		0
26	In defence of deep modelling. Information and Software Technology, 2015, 64, 36-51.	3.0	12
27	A multi-level approach to modeling language extension in the Enterprise Systems Domain. Information Systems, 2015, 54, 289-307.	2.4	17
28	Ranking Software Components for Pragmatic Reuse. , 2015, , .		4
29	Enhancing classic transformation languages to support multi-level modeling. Software and Systems Modeling, 2015, 14, 645-666.	2.2	11
30	Motivating Use Cases for the Globalization of DSLs. Lecture Notes in Computer Science, 2015, , 21-42.	1.0	1
31	Synchronization of Projective Views on a Single-Underlying-Model. , 2015, , .		10
32	Foundational MDA Patterns for Service-Oriented Computing .. Journal of Object Technology, 2015, 14, 1:1.	0.8	3
33	Green Specifications. Advances in Environmental Engineering and Green Technologies Book Series, 2015, , 1-24.	0.3	0
34	Towards Orthographic Viewpoints for Enterprise Architecture Modeling. , 2014, , .		4
35	Criteria for Orthographic Viewpoints. , 2014, , .		2
36	Facilitating Greener IT through Green Specifications. IEEE Software, 2014, 31, 56-63.	2.1	10

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37	Level-Agnostic Designation of Model Elements. Lecture Notes in Computer Science, 2014, , 18-34.	1.0	2
38	Reuse-Oriented Code Recommendation Systems. , 2014, , 359-386.		8
39	Utilizing software reuse experience for automated test recommendation. , 2013, , .		11
40	Modeling Language Extension in the Enterprise Systems Domain. , 2013, , .		11
41	A prototype implementation of an orthographic software modeling environment. , 2013, , .		7
42	Towards application-specific impact specifications and GreenSLAs. , 2013, , .		4
43	A multi-level modeling environment for SUM-based software engineering. , 2013, , .		2
44	An unabridged source code dataset for research in software reuse. , 2013, , .		11
45	Cloud-Aided Software Engineering: Evolving Viable Software Systems Through a Web of Views. Computer Communications and Networks, 2013, , 255-281.	0.8	16
46	Artifact Representation Techniques for Large-Scale Software Search Engines. , 2013, , 81-101.		1
47	Symbiotic general-purpose and domain-specific languages. , 2012, , .		8
48	Iterative and incremental development of component-based software architectures. , 2012, , .		6
49	Reducing the Incidence of Unintended, Human-Caused Information Flows in Enterprise Systems. , 2012, , .		0
50	Leveraging software search and reuse with automated software adaptation. , 2012, , .		7
51	Melanie. , 2012, , .		39
52	On-the-Fly Emendation of Multi-level Models. Lecture Notes in Computer Science, 2012, , 194-209.	1.0	8
53	A Unified Conceptual Framework for Service-Oriented Computing. Lecture Notes in Computer Science, 2012, , 128-169.	1.0	6
54	Modelling as a Service (MaaS): Minimizing the Environmental Impact of Computing Services. , 2011, , .		4

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55	Towards a Language and Framework for Penurious Testing. , 2011, , .		0
56	Towards a Unified Conceptual Framework for Service-Oriented Computing. , 2011, , .		2
57	Orthographic Service Modeling. , 2011, , .		11
58	Discrepancy discovery in search-enhanced testing. , 2011, , .		3
59	Search-enhanced testing. , 2011, , .		5
60	The Level-Agnostic Modeling Language. Lecture Notes in Computer Science, 2011, , 266-275.	1.0	18
61	Software Testing Using Test Sheets. , 2010, , .		3
62	More archetypal usage scenarios for software search engines. , 2010, , .		13
63	Proposing software design recommendations based on component interface intersecting. , 2010, , .		5
64	Typed Business Process Specification. , 2010, , .		11
65	Testing Web-Services Using Test Sheets. , 2010, , .		4
66	Automated Creation and Assessment of Component Adapters with Test Cases. Lecture Notes in Computer Science, 2010, , 166-181.	1.0	14
67	Orthographic Software Modeling: A Practical Approach to View-Based Development. Communications in Computer and Information Science, 2010, , 206-219.	0.4	45
68	Reuse-Oriented Deployment of Software Components: Congregation in Service-Oriented Development. , 2009, , .		0
69	Lowering the barrier to reuse through test-driven search. , 2009, , .		9
70	Towards a Client-Oriented Model of Types and States in Service-Oriented Development. , 2009, , .		9
71	The role of congregation in service-oriented development. , 2009, , .		1
72	A Flexible Infrastructure for Multilevel Language Engineering. IEEE Transactions on Software Engineering, 2009, 35, 742-755.	4.3	67

#	ARTICLE	IF	CITATIONS
73	The Managed Adapter Pattern: Facilitating Glue Code Generation for Component Reuse. Lecture Notes in Computer Science, 2009, , 211-224.	1.0	8
74	Towards High Integrity UDDI Systems. Lecture Notes in Business Information Processing, 2009, , 350-361.	0.8	1
75	Reducing accidental complexity in domain models. Software and Systems Modeling, 2008, 7, 345-359.	2.2	184
76	Specifying High-Assurance Services. Computer, 2008, 41, 64-71.	1.2	22
77	Code Conjuror: Pulling Reusable Software out of Thin Air. IEEE Software, 2008, 25, 45-52.	2.1	135
78	Context-Sensitive Service Discovery for Mobile Commerce Applications. , 2008, , .		1
79	Orthographic Modeling Environment. , 2008, , 93-96.		13
80	Modeling Components and Component-Based Systems in Kobra. Lecture Notes in Computer Science, 2008, , 54-84.	1.0	20
81	A Systematic Approach to Connectors in a Multi-level Modeling Environment. Lecture Notes in Computer Science, 2008, , 843-857.	1.0	15
82	A Trustable Brokerage Solution for Component and Service Markets. Lecture Notes in Computer Science, 2008, , 64-75.	1.0	1
83	A Tour of Language Customization Concepts. Advances in Computers, 2007, 70, 105-161.	1.2	14
84	A Practical Approach to Web Service Discovery and Retrieval. , 2007, , .		53
85	Strategies for the Run-Time Testing of Third Party Web Services. , 2007, , .		22
86	An Evaluation Method for Requirements Engineering Approaches in Distributed Software Development Projects. , 2007, , .		9
87	Reducing verification effort in component-based software engineering through built-in testing. Information Systems Frontiers, 2007, 9, 151-162.	4.1	37
88	Verbesserung der Retrievaleffizienz von Softwarekomponentenmärkten. Business & Information Systems Engineering, 2007, 49, 430-438.	0.5	0
89	Supporting Agile Reuse Through Extreme Harvesting. , 2007, , 28-37.		14
90	Concepts for an Ontology-centric Technology Risk Management Architecture in the Banking Industry. , 2006, , .		6

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91	The MORABIT Approach to Runtime Component Testing. , 2006, , .		32
92	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
93	Ubiquitous RATs. , 2006, , .		15
94	Using the Web as a Reuse Repository. Lecture Notes in Computer Science, 2006, , 298-311.	1.0	27
95	Concepts for Comparing Modeling Tool Architectures. Lecture Notes in Computer Science, 2005, , 398-413.	1.0	34
96	A Generalized Notion of Platforms for Model-Driven Development. , 2005, , 119-136.		9
97	Systematic stereotype usage. Software and Systems Modeling, 2003, 2, 153-163.	2.2	18
98	Model-driven development: a metamodeling foundation. IEEE Software, 2003, 20, 36-41.	2.1	627
99	Component Integration through Built-in Contract Testing. Lecture Notes in Computer Science, 2003, , 159-183.	1.0	8
100	Rearchitecting the UML infrastructure. ACM Transactions on Modeling and Computer Simulation, 2002, 12, 290-321.	0.6	128
101	Profiles in a strict metamodeling framework. Science of Computer Programming, 2002, 44, 5-22.	1.5	33
102	Towards a General Component Model for Web-Based Applications. Annals of Software Engineering, 2002, 13, 35-69.	0.5	15
103	PROCESSES AND PRODUCTS IN A MULTI-LEVEL METAMODELING ARCHITECTURE. International Journal of Software Engineering and Knowledge Engineering, 2001, 11, 761-783.	0.6	37
104	The Essence of Multilevel Metamodeling. Lecture Notes in Computer Science, 2001, , 19-33.	1.0	162
105	An experimental comparison of reading techniques for defect detection in UML design documents. Journal of Systems and Software, 2000, 53, 183-204.	3.3	99
106	Strict Profiles: Why and How. Lecture Notes in Computer Science, 2000, , 309-322.	1.0	11
107	Generalizing perspective-based inspection to handle object-oriented development artifacts. , 1999, , .		32
108	Model-Driven Testing with Test Sheets. , 0, , 231-253.		0