Roel Wuyts

List of Publications by Year in descending order

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55 papers	896 citations	623734 14 h-index	526287 27 g-index
59 all docs	59 docs citations	59 times ranked	485 citing authors

#	Article	IF	Citations
1	Halvade somatic: Somatic variant calling with Apache Spark. GigaScience, 2022, 11, .	6.4	2
2	Multithreaded variant calling in elPrep 5. PLoS ONE, 2021, 16, e0244471.	2.5	9
3	Data Science in Healthcare: Benefits, Challenges and Opportunities. , 2019, , 3-38.		18
4	A high-level library for multidimensional arrays programming in computational science. Concurrency Computation Practice and Experience, 2018, 30, e4376.	2.2	1
5	Scaling machine learning for target prediction in drug discovery using Apache Spark. Future Generation Computer Systems, 2017, 67, 409-417.	7.5	39
6	Exploring a Distributed Iterative Reconstructor Based on Split Bregman Using PETSc. Lecture Notes in Computer Science, 2016, , 191-200.	1.3	1
7	Helsim: A Particle-in-cell Simulator for Highly Imbalanced Particle Distributions. Procedia Computer Science, 2015, 51, 2923-2927.	2.0	2
8	Scaling Machine Learning for Target Prediction in Drug Discovery using Apache Spark. , 2015, , .		7
9	Efficient Synchronization for Stencil Computations Using Dynamic Task Graphs. Procedia Computer Science, 2013, 18, 2428-2431.	2.0	2
10	Memory and communication driven spatio-temporal scheduling on MPSoCs. , 2012, , .		3
11	An Extension to Fuzzy Cognitive Maps for Classification and Prediction. IEEE Transactions on Fuzzy Systems, 2011, 19, 116-135.	9.8	75
12	A probabilistic fuzzy approach to modeling nonlinear systems. Neurocomputing, 2011, 74, 1008-1025.	5.9	15
13	SAMOSA: Scratchpad aware mapping of streaming applications. , 2011, , .		2
14	PinComm: Characterizing Intra-application Communication for the Many-Core Era. , 2010, , .		10
15	Composing aspects with aspects. , 2010, , .		9
16	The future is dynamic. , 2009, , .		0
17	Executing code in the past. , 2009, , .		3
18	The future is dynamic. , 2009, , .		0

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19	Executing code in the past. , 2009, , .		6
20	Detecting unanticipated aspect interferences at runtime with compositional intentions. , 2009, , .		12
21	Traits at work: The design of a new trait-based stream library. Computer Languages, Systems and Structures, 2009, 35, 2-20.	1.4	12
22	Tool Building on the Shoulders of Others. IEEE Software, 2009, 26, 22-23.	1.8	8
23	Embedded Multiprocessor Systems-on-Chip Programming. IEEE Software, 2009, 26, 34-41.	1.8	6
24	Fast type reconstruction for dynamically typed programming languages. ACM SIGPLAN Notices, 2009, 44, 69-78.	0.2	1
25	Challenging VMs on battery-powered embedded devices. , 2009, , .		0
26	Academic Software Development Tools and Techniques. Lecture Notes in Computer Science, 2009, , 87-103.	1.3	2
27	Executing code in the past. ACM SIGPLAN Notices, 2009, 44, 391-408.	0.2	0
28	Stateful traits and their formalization. Computer Languages, Systems and Structures, 2008, 34, 83-108.	1.4	48
29	Creating sophisticated development tools with OmniBrowser. Computer Languages, Systems and Structures, 2008, 34, 109-129.	1.4	7
30	Implementing Partial Persistence in Object-Oriented Languages. , 2008, , 37-48.		6
31	Composability of aspects. , 2008, , .		3
32	Redesigning with traits. , 2007, , .		5
33	User-changeable visibility. ACM SIGPLAN Notices, 2007, 42, 171-190.	0.2	2
34	Guest Editors' Introduction: Dynamically Typed Languages. IEEE Software, 2007, 24, 28-30.	1.8	18
35	Stateful Traits. Lecture Notes in Computer Science, 2007, , 66-90.	1.3	9
36	Meta-driven Browsers. Lecture Notes in Computer Science, 2007, , 134-156.	1.3	1

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37	Co-evolving code and design with intensional views. Computer Languages, Systems and Structures, 2006, 32, 140-156.	1.4	55
38	Inter-language reflection: A conceptual model and its implementation. Computer Languages, Systems and Structures, 2006, 32, 109-124.	1.4	21
39	Traits. ACM Transactions on Programming Languages and Systems, 2006, 28, 331-388.	2.1	181
40	A data-centric approach to composing embedded, real-time software components. Journal of Systems and Software, 2005, 74, 25-34.	4.5	14
41	Classboxes: controlling visibility of class extensions. Computer Languages, Systems and Structures, 2005, 31, 107-126.	1.4	37
42	Uniform and safe metaclass composition. Computer Languages, Systems and Structures, 2005, 31, 143-164.	1.4	5
43	Parcels: A fast and feature-rich binary deployment technology. Computer Languages, Systems and Structures, 2005, 31, 165-181.	1.4	4
44	SmallWiki. , 2005, , .		8
45	On the Revival of Dynamic Languages. Lecture Notes in Computer Science, 2005, , 1-13.	1.3	18
46	Unanticipated integration of development tools using the classification model. Computer Languages, Systems and Structures, 2004, 30, 63-77.	1.4	13
47	Composable Encapsulation Policies. Lecture Notes in Computer Science, 2004, , 26-50.	1.3	15
48	Declarative Meta Programming to Support Software Development. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2003, 28, 1.	0.7	5
49	Classboxes: A Minimal Module Model Supporting Local Rebinding. Lecture Notes in Computer Science, 2003, , 122-131.	1.3	22
50	Components for embedded software. , 2002, , .		49
51	Supporting software development through declaratively codified programming patterns. Expert Systems With Applications, 2002, 23, 405-413.	7.6	40
52	A Component Model for Field Devices. Lecture Notes in Computer Science, 2002, , 200-209.	1.3	49
53	Co-Evolution of Object-Oriented Software Design and Implementation. , 2002, , 207-224.		9
54	Using Reflective Logic Programming to Describe Domain Knowledge as an Aspect. Lecture Notes in Computer Science, 2000, , 16-23.	1.3	4

#	Article	IF	Citations
55	Workshop Report â€"ECOOPâ€™98 Workshop 7 Tools and Environments for Business Rules. Lecture Notes in Computer Science, 1998, , 189-196.	1.3	3