

Alan Mycroft

List of Publications by Year in descending order

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77
papers

1,311
citations

687220

13
h-index

477173

29
g-index

80
all docs

80
docs citations

80
times ranked

537
citing authors

#	ARTICLE	IF	CITATIONS
1	A Unified Model for Context-Sensitive Program Analyses. ACM Computing Surveys, 2022, 54, 1-37.	16.1	1
2	Refactoring traces to identify concurrency improvements. , 2021, , .		3
3	Source code patches from dynamic analysis. , 2021, , .		2
4	An Efficient and Scalable Platform for Java Source Code Analysis Using Overlaid Graph Representations. IEEE Access, 2020, 8, 72239-72260.	2.6	15
5	Generalized Points-to Graphs. ACM Transactions on Programming Languages and Systems, 2020, 42, 1-78.	1.7	1
6	Extended Call-by-Push-Value: Reasoning About Effectful Programs and Evaluation Order. Lecture Notes in Computer Science, 2019, , 235-262.	1.0	4
7	The Next 7000 Programming Languages. Lecture Notes in Computer Science, 2019, , 250-282.	1.0	8
8	Call-by-need effects via coeffects. Open Computer Science, 2018, 8, 93-108.	1.3	2
9	Polymorphism, subtyping, and type inference in MLsub. , 2017, , .		22
10	Effect Systems Revisited—Control-Flow Algebra and Semantics. Lecture Notes in Computer Science, 2016, , 1-32.	1.0	14
11	Flow- and Context-Sensitive Points-To Analysis Using Generalized Points-To Graphs. Lecture Notes in Computer Science, 2016, , 212-236.	1.0	3
12	REPAIR: Hard-error recovery via re-execution. , 2015, , .		0
13	Source-code queries with graph databases—with application to programming language usage and evolution. Science of Computer Programming, 2015, 97, 127-134.	1.5	27
14	It's Only Illegal If You Get Caught. , 2014, , .		0
15	Coeffects. , 2014, , .		42
16	Programming language evolution workshop report. , 2014, , .		3
17	Liveness-Based Garbage Collection. Lecture Notes in Computer Science, 2014, , 85-106.	1.0	2
18	Coeffects. ACM SIGPLAN Notices, 2014, 49, 123-135.	0.2	10

#	ARTICLE	IF	CITATIONS
19	Rendezvous: A search engine for binary code. , 2013, , .		56
20	Notions of Aliasing and Ownership. Lecture Notes in Computer Science, 2013, , 59-83.	1.0	4
21	Coeffects: Unified Static Analysis of Context-Dependence. Lecture Notes in Computer Science, 2013, , 385-397.	1.0	32
22	A Notation for Comonads. Lecture Notes in Computer Science, 2013, , 1-17.	1.0	2
23	Aliasing Visions: Ownership and Location. Lecture Notes in Computer Science, 2013, , 503-504.	1.0	0
24	Concise Analysis Using Implication Algebras for Task-Local Memory Optimisation. Lecture Notes in Computer Science, 2013, , 433-453.	1.0	0
25	Programming language evolution via source code query languages. , 2012, , .		8
26	Extending monads with pattern matching. ACM SIGPLAN Notices, 2012, 46, 1-12.	0.2	1
27	Schedulability Analysis Abstractions for Safety Critical Java. , 2012, , .		2
28	Control Flow Analysis for the Join Calculus. Lecture Notes in Computer Science, 2012, , 181-197.	1.0	3
29	Liveness-Based Pointer Analysis. Lecture Notes in Computer Science, 2012, , 265-282.	1.0	10
30	Isolation Types and Multi-core Architectures. Lecture Notes in Computer Science, 2012, , 33-48.	1.0	2
31	Linking temporal first-order logic with Bayesian networks for the simulation of pervasive computing systems. Simulation Modelling Practice and Theory, 2011, 19, 161-180.	2.2	1
32	Extending monads with pattern matching. , 2011, , .		5
33	Critical-Path-Guided Interactive Parallelisation. , 2011, , .		1
34	Petri-nets as an Intermediate Representation for Heterogeneous Architectures. Lecture Notes in Computer Science, 2011, , 226-237.	1.0	1
35	Ypnos. , 2010, , .		20
36	LINKING TEMPORAL FIRST ORDER LOGIC AND HIDDEN MARKOV MODELS WITH ABSTRACT EVENTS. International Journal on Artificial Intelligence Tools, 2010, 19, 857-893.	0.7	4

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37	Estimating and Exploiting Potential Parallelism by Source-Level Dependence Profiling. Lecture Notes in Computer Science, 2010, , 26-37.	1.0	10
38	Formally Efficient Program Instrumentation. Lecture Notes in Computer Science, 2010, , 245-252.	1.0	0
39	Strictness Meets Data Flow. Lecture Notes in Computer Science, 2010, , 439-454.	1.0	0
40	Limits of parallelism using dynamic dependency graphs. , 2009, , .		13
41	A lightweight in-place implementation for software thread-level speculation. , 2009, , .		45
42	A new approach to parallelising tracing algorithms. , 2009, , .		15
43	Controlling Control Flow in Web Applications. Electronic Notes in Theoretical Computer Science, 2008, 200, 119-131.	0.9	6
44	Jones optimality and hardware virtualization. , 2008, , .		5
45	Software thread-level speculation. , 2008, , .		24
46	SCAFOS: linking sensor data to context-aware applications using abstract events. International Journal of Pervasive Computing and Communications, 2008, 3, 347-377.	1.1	9
47	Kilim: Isolation-Typed Actors for Java. Lecture Notes in Computer Science, 2008, , 104-128.	1.0	131
48	Language-Based Optimisation of Sensor-Driven Distributed Computing Applications. , 2008, , 407-422.		1
49	Set-Congruence Dynamic Analysis for Thread-Level Speculation (TLS). Lecture Notes in Computer Science, 2008, , 156-171.	1.0	13
50	Choosing Method of the Most Effective Nested Loop Shearing for Parallelism. , 2007, , .		0
51	Abstract interpretation of combinational asynchronous circuits. Science of Computer Programming, 2007, 64, 166-183.	1.5	3
52	Delayed Side-Effects Ease Multi-core Programming. Lecture Notes in Computer Science, 2007, , 641-650.	1.0	6
53	Programming Language Design and Analysis Motivated by Hardware Evolution. Lecture Notes in Computer Science, 2007, , 18-33.	1.0	6
54	Revisiting SIMD Programming. Lecture Notes in Computer Science, 2007, , 32-46.	1.0	1

#	ARTICLE	IF	CITATIONS
55	Applying Bayesian Networks to Sensor-Driven Systems. Proceedings International Symposium on Wearable Computers, 2006, , .	0.0	0
56	Haskell Is Not Not ML. Lecture Notes in Computer Science, 2006, , 38-53.	1.0	3
57	Bit-level partial evaluation of synchronous circuits. , 2006, , .		2
58	Task Partitioning for Multi-core Network Processors. Lecture Notes in Computer Science, 2005, , 76-90.	1.0	24
59	Linear Types for Packet Processing. Lecture Notes in Computer Science, 2004, , 204-218.	1.0	23
60	Higher-level techniques for hardware description and synthesis. International Journal on Software Tools for Technology Transfer, 2003, 4, 271-297.	1.7	9
61	Bidirectional data flow analysis for type inferencing. Computer Languages, Systems and Structures, 2003, 29, 15-44.	1.4	6
62	Redux. Electronic Notes in Theoretical Computer Science, 2003, 89, 149-170.	0.9	33
63	The cache behaviour of large lazy functional programs on stock hardware. , 2002, , .		9
64	Type-Based Decompilation (or Program Reconstruction via Type Reconstruction). Lecture Notes in Computer Science, 1999, , 208-223.	1.0	23
65	Untyped strictness analysis. Journal of Functional Programming, 1995, 5, 37-49.	0.5	1
66	Uniform PERs and compartment analysis. Lecture Notes in Computer Science, 1995, , 169-187.	1.0	3
67	Object-Oriented Type Systems. Computer Journal, 1995, 38, 79-80.	1.5	0
68	Completeness and predicate-based abstract interpretation. , 1993, , .		16
69	Uniform ideals and strictness analysis. Lecture Notes in Computer Science, 1991, , 47-59.	1.0	7
70	Data flow analysis of applicative programs using minimal function graphs. , 1986, , .		84
71	A relational framework for abstract interpretation. Lecture Notes in Computer Science, 1986, , 156-171.	1.0	34
72	A polymorphic type system for prolog. Artificial Intelligence, 1984, 23, 295-307.	3.9	204

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73	Logic programs and many-valued logic. Lecture Notes in Computer Science, 1984, , 274-286.	1.0	16
74	Polymorphic type schemes and recursive definitions. Lecture Notes in Computer Science, 1984, , 217-228.	1.0	104
75	The theory and practice of transforming call-by-need into call-by-value. Lecture Notes in Computer Science, 1980, , 269-281.	1.0	102
76	Efficient and Correct Stencil Computation via Pattern Matching and Static Typing. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 66, 68-92.	0.8	6
77	Mapping the Join Calculus to Heterogeneous Hardware. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 109, 7-12.	0.8	0