Bor-Yuh Evan Chang

List of Publications by Year
in descending order

44 papers	685 citations	933447 10 h-index	752698 20 g-index
44 all docs	44 docs citations	44 times ranked	270 citing authors

#	Article	IF	Citations
1	In defense of soundiness. Communications of the ACM, 2015, 58, 44-46.	4.5	168
2	Relational inductive shape analysis. , 2008, , .		100
3	Abstract Interpretation with Alien Expressions and Heap Structures. Lecture Notes in Computer Science, 2005, , 147-163.	1.3	36
4	Shape Analysis with Structural Invariant Checkers. Lecture Notes in Computer Science, 2007, , 384-401.	1.3	36
5	Thresher. , 2013, , .		29
6	Relational inductive shape analysis. ACM SIGPLAN Notices, 2008, 43, 247-260.	0.2	26
7	The open verifier framework for foundational verifiers. , 2005, , .		20
8	Droidel: a general approach to Android framework modeling. , 2015, , .		20
9	Automatic Analysis of Open Objects in Dynamic Language Programs. Lecture Notes in Computer Science, 2014, , 134-150.	1.3	17
10	Selective control-flow abstraction via jumping. , 2015, , .		17
11	Separating Shape Graphs. Lecture Notes in Computer Science, 2010, , 387-406.	1.3	16
12	Reduced Product Combination of Abstract Domains for Shapes. Lecture Notes in Computer Science, 2013, , 375-395.	1.3	16
13	Mixing type checking and symbolic execution. , 2010, , .		13
14	Modular Construction of Shape-Numeric Analyzers. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 129, 161-185.	0.8	13
15	A Framework for Certified Program Analysis and Its Applications to Mobile-Code Safety. Lecture Notes in Computer Science, 2005, , 174-189.	1.3	12
16	Calling context abstraction with shapes. , 2011, , .		11
17	Static analysis with demand-driven value refinement. , 2019, 3, 1-29.		11
18	Analysis of Low-Level Code Using Cooperating Decompilers. Lecture Notes in Computer Science, 2006, , 318-335.	1.3	10

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19	A Bit Too Precise? Bounded Verification of Quantized Digital Filters. Lecture Notes in Computer Science, 2012, , 33-47.	1.3	10
20	Mining framework usage graphs from app corpora. , 2018, , .		9
21	Type-based verification of sssembly language for compiler debugging. , 2005, , .		8
22	A bit too precise? Verification of quantized digital filters. International Journal on Software Tools for Technology Transfer, 2014, 16, 175-190.	1.9	8
23	Semantic-directed clumping of disjunctive abstract states. , 2017, , .		7
24	Inferring Object Invariants. Electronic Notes in Theoretical Computer Science, 2005, 131, 63-74.	0.9	6
25	Fissile type analysis. , 2014, , .		6
26	Android apps consistency scrutinized. , 2014, , .		6
27	Thresher. ACM SIGPLAN Notices, 2013, 48, 275-286.	0.2	5
28	Safe stream-based programming with refinement types. , 2018, , .		5
29	Demanded abstract interpretation. , 2021, , .		5
30	Selective control-flow abstraction via jumping. ACM SIGPLAN Notices, 2015, 50, 163-182.	0.2	5
31	Calling context abstraction with shapes. ACM SIGPLAN Notices, 2011, 46, 173-186.	0.2	4
32	Shape Analysis for Unstructured Sharing. Lecture Notes in Computer Science, 2015, , 90-108.	1.3	4
33	ChimpCheck: property-based randomized test generation for interactive apps. , 2017, , .		4
34	An Abstract Domain Combinator for Separately Conjoining Memory Abstractions. Lecture Notes in Computer Science, 2014, , 285-301.	1.3	4
35	Mixing type checking and symbolic execution. ACM SIGPLAN Notices, 2010, 45, 436-447.	0.2	3
36	D roid S tar. , 2018, , .		3

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37	Construction of Abstract Domains for Heterogeneous Properties (Position Paper). Lecture Notes in Computer Science, 2014, , 489-492.	1.3	3
38	Semantic-directed clumping of disjunctive abstract states. ACM SIGPLAN Notices, 2017, 52, 32-45.	0.2	3
39	Shape Analysis. Foundations and Trends in Programming Languages, 2020, 6, 1-158.	1.8	3
40	PML: Toward a High-Level Formal Language for Biological Systems. Electronic Notes in Theoretical Computer Science, 2007, 180, 15-30.	0.9	2
41	QUICr: A Reusable Library for Parametric Abstraction of Sets and Numbers. Lecture Notes in Computer Science, 2014, , 866-873.	1.3	1
42	Measuring enforcement windows with symbolic trace interpretation: what well-behaved programs say. , 2012, , .		0
43	A vision for online verification-validation. , 2016, , .		0
44	Fissile type analysis. ACM SIGPLAN Notices, 2014, 49, 73-85.	0.2	0