Isil Dillig

List of Publications by Year
in descending order

		687363	677142
47 papers	1,702 citations	13 h-index	22 g-index
48 all docs	48 docs citations	48 times ranked	728 citing authors

#	Article	IF	Citations
1	Bottom-up synthesis of recursive functional programs using angelic execution. , 2022, 6, 1-29.		13
2	Automated transpilation of imperative to functional code using neural-guided program synthesis. , 2022, 6, 1-27.		5
3	Synthesizing data structure refinements from integrity constraints. , 2021, , .		7
4	UDF to SQL translation through compositional lazy inductive synthesis. , 2021, 5, 1-26.		5
5	Program Synthesis Using Deduction-Guided Reinforcement Learning. Lecture Notes in Computer Science, 2020, , 587-610.	1.3	13
6	Sketch-Driven Regular Expression Generation from Natural Language and Examples. Transactions of the Association for Computational Linguistics, 2020, 8, 679-694.	4.8	13
7	Symbolic Reasoning for Automatic Signal Placement. Operating Systems Review (ACM), 2020, 54, 64-76.	1.9	0
8	Demystifying loops in smart contracts. , 2020, , .		10
9	Trinity. Proceedings of the VLDB Endowment, 2019, 12, 1914-1917.	3.8	21
10	Program synthesis using abstraction refinement. , 2018, 2, 1-30.		50
11	Verified three-way program merge. , 2018, 2, 1-29.		24
12	Symbolic reasoning for automatic signal placement. , 2018, , .		3
13	Relational program synthesis. , 2018, 2, 1-27.		10
14	Learning Abstractions for Program Synthesis. Lecture Notes in Computer Science, 2018, , 407-426.	1.3	5
15	Program synthesis using conflict-driven learning. , 2018, , .		56
16	Automated migration of hierarchical data to relational tables using programming-by-example. Proceedings of the VLDB Endowment, 2018, 11, 580-593.	3.8	24
17	Program synthesis using conflict-driven learning. ACM SIGPLAN Notices, 2018, 53, 420-435.	0.2	36
18	Symbolic reasoning for automatic signal placement. ACM SIGPLAN Notices, 2018, 53, 120-134.	0.2	1

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19	Synthesis of circular compositional program proofs via abduction. International Journal on Software Tools for Technology Transfer, 2017, 19, 535-547.	1.9	5
20	SQLizer: query synthesis from natural language. , 2017, 1, 1-26.		153
21	Synthesis of data completion scripts using finite tree automata. , 2017, 1, 1-26.		29
22	Component-based synthesis for complex APIs. , 2017, , .		62
23	Component-based synthesis of table consolidation and transformation tasks from examples. , 2017, , .		81
24	Component-based synthesis of table consolidation and transformation tasks from examples. ACM SIGPLAN Notices, 2017, 52, 422-436.	0.2	44
25	Maximal specification synthesis. , 2016, , .		30
26	Synthesizing transformations on hierarchically structured data. , 2016, , .		36
27	Cartesian hoare logic for verifying k-safety properties. , 2016, , .		73
28	Synthesizing transformations on hierarchically structured data. ACM SIGPLAN Notices, 2016, 51, 508-521.	0.2	7
29	Cartesian hoare logic for verifying k-safety properties. ACM SIGPLAN Notices, 2016, 51, 57-69.	0.2	12
30	Static detection of asymptotic performance bugs in collection traversals. , 2015, , .		52
31	Synthesizing data structure transformations from input-output examples. , 2015, , .		153
32	Static detection of asymptotic performance bugs in collection traversals. ACM SIGPLAN Notices, 2015, 50, 369-378.	0.2	18
33	Synthesizing data structure transformations from input-output examples. ACM SIGPLAN Notices, 2015, 50, 229-239.	0.2	66
34	EXPLORER : query- and demand-driven exploration of interprocedural control flow properties. ACM SIGPLAN Notices, 2015, 50, 520-534.	0.2	1
35	Consolidation of queries with user-defined functions. ACM SIGPLAN Notices, 2014, 49, 554-564.	0.2	10
36	Apposcopy: semantics-based detection of Android malware through static analysis. , 2014, , .		289

#	Article	IF	Citations
37	Optimal Guard Synthesis for Memory Safety. Lecture Notes in Computer Science, 2014, , 491-507.	1.3	13
38	Inductive invariant generation via abductive inference. ACM SIGPLAN Notices, 2013, 48, 443-456.	0.2	32
39	Automated Inference of Library Specifications for Source-Sink Property Verification. Lecture Notes in Computer Science, 2013, , 290-306.	1.3	29
40	Explain: A Tool for Performing Abductive Inference. Lecture Notes in Computer Science, 2013, , 684-689.	1.3	16
41	Automated error diagnosis using abductive inference. ACM SIGPLAN Notices, 2012, 47, 181-192.	0.2	16
42	Cuts from proofs: a complete and practical technique for solving linear inequalities over integers. Formal Methods in System Design, 2011, 39, 246-260.	0.8	5
43	Precise reasoning for programs using containers. ACM SIGPLAN Notices, 2011, 46, 187-200.	0.2	21
44	Precise and compact modular procedure summaries for heap manipulating programs. ACM SIGPLAN Notices, 2011, 46, 567-577.	0.2	20
45	Reasoning about the unknown in static analysis. Communications of the ACM, 2010, 53, 115-123.	4.5	8
46	Sound, complete and scalable path-sensitive analysis. ACM SIGPLAN Notices, 2008, 43, 270-280.	0.2	25
47	An overview of the saturn project. , 2007, , .		81