Dexter Kozen

List of Publications by Year
in descending order

66 papers	2,512 citations	471061 17 h-index	253896 43 g-index
69 all docs	69 docs citations	69 times ranked	793 citing authors

#	Article	IF	Citations
1	Kleene algebra with tests. ACM Transactions on Programming Languages and Systems, 1997, 19, 427-443.	1.7	359
2	Semantics of probabilistic programs. Journal of Computer and System Sciences, 1981, 22, 328-350.	0.9	340
3	NetKAT. , 2014, , .		215
4	A probabilistic PDL. Journal of Computer and System Sciences, 1985, 30, 162-178.	0.9	182
5	Process logic: Expressiveness, decidability, completeness. Journal of Computer and System Sciences, 1982, 25, 144-170.	0.9	112
6	On Hoare logic and Kleene algebra with tests. ACM Transactions on Computational Logic, 2000, 1, 60-76.	0.7	111
7	Polynomial decomposition algorithms. Journal of Symbolic Computation, 1989, 7, 445-456.	0.5	83
8	NetKAT. ACM SIGPLAN Notices, 2014, 49, 113-126.	0.2	83
9	Logics of Programs. , 1990, , 789-840.		80
10	Definability with bounded number of bound variables. Information and Computation, 1989, 83, 121-139.	0.5	76
11	On parallelism in turing machines. , 1976, , .		69
12	A zero-one law for logic with a fixed-point operator. Information and Control, 1985, 67, 70-90.	1.3	66
13	A finite model theorem for the propositional ?-calculus. Studia Logica, 1988, 47, 233-241.	0.4	62
14	A Coalgebraic Decision Procedure for NetKAT. , 2015, , .		54
15	Probabilistic NetKAT. Lecture Notes in Computer Science, 2016, , 282-309.	1.0	39
16	A Fast Parallel Algorithm for Determining All Roots of a Polynomial with Real Roots. SIAM Journal on Computing, 1988, 17, 1081-1092.	0.8	38
17	Efficient inference of partial types. Journal of Computer and System Sciences, 1994, 49, 306-324.	0.9	38
18	Positive First-Order Logic Is NP-Complete. IBM Journal of Research and Development, 1981, 25, 327-332.	3.2	36

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19	Efficient recursive subtyping. Mathematical Structures in Computer Science, 1995, 5, 113-125.	0.5	33
20	A programming language for the inductive sets, and applications. Information and Control, 1984, 63, 118-139.	1.3	29
21	Dynamic Logic. , 2001, , 99-217.		23
22	Cantor meets Scott: semantic foundations for probabilistic networks. , 2017, , .		20
23	A clique problem equivalent to graph isomorphism. ACM SIGACT News, 1978, 10, 50-52.	0.1	17
24	On the completeness of propositional Hoare logic. Information Sciences, 2001, 139, 187-195.	4.0	17
25	KAT-ML: an interactive theorem prover for Kleene algebra with tests. Journal of Applied Non-Classical Logics, 2006, 16, 9-33.	0.4	17
26	Kleene algebra with tests and commutativity conditions. Lecture Notes in Computer Science, 1996, , 14-33.	1.0	17
27	Decomposition of Algebraic Functions. Journal of Symbolic Computation, 1996, 22, 235-246.	0.5	16
28	Kleene Algebra with Equations. Lecture Notes in Computer Science, 2014, , 280-292.	1.0	15
29	KAT + B!. , 2014, , .		14
30	Practical coinduction. Mathematical Structures in Computer Science, 2017, 27, 1132-1152.	0.5	14
31	Semantics of higher-order probabilistic programs with conditioning. , 2020, 4, 1-29.		14
32	Guarded Kleene algebra with tests: verification of uninterpreted programs in nearly linear time. , 2020, 4, 1-28.		14
33	Substructural logic and partial correctness. ACM Transactions on Computational Logic, 2003, 4, 355-378.	0.7	12
34	CoCaml: Functional Programming with Regular Coinductive Types. Fundamenta Informaticae, 2017, 150, 347-377.	0.3	12
35	Set Constraints and Logic Programming. Information and Computation, 1998, 142, 2-25.	0.5	11
36	A Coalgebraic Decision Procedure for NetKAT. ACM SIGPLAN Notices, 2015, 50, 343-355.	0.2	10

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37	Tarskian Set Constraints. Information and Computation, 2002, 174, 105-131.	0.5	9
38	Some results in dynamic model theory. Science of Computer Programming, 2004, 51, 3-22.	1.5	9
39	Stone Duality for Markov Processes. , 2013, , .		9
40	On the Coalgebraic Theory of Kleene Algebra with Tests. Outstanding Contributions To Logic, 2017, , 279-298.	0.2	9
41	Nonlocal Flow of Control and Kleene Algebra with Tests. Proceedings - Symposium on Logic in Computer Science, 2008, , .	0.0	8
42	The BÃ¶hmâ€"Jacopini Theorem Is False, Propositionally. Lecture Notes in Computer Science, 2008, , 177-192.	1.0	8
43	Kleene Algebra and Bytecode Verification. Electronic Notes in Theoretical Computer Science, 2005, 141, 221-236.	0.9	6
44	Kolmogorov Extension, Martingale Convergence, and Compositionality of Processes. , 2016, , .		6
45	Automata on guarded strings and applications. Matematica Contemporanea, 2003, 24, .	0.0	6
46	Relational Semantics for Higher-Order Programs. Lecture Notes in Computer Science, 2006, , 29-48.	1.0	6
47	Computing the Newtonian Graph. Journal of Symbolic Computation, 1997, 24, 125-136.	0.5	5
48	Realization of Coinductive Types. Electronic Notes in Theoretical Computer Science, 2011, 276, 237-246.	0.9	5
49	Semantics of Probabilistic Programming: A Gentle Introduction. , 2020, , 1-42.		5
50	Cantor meets Scott: semantic foundations for probabilistic networks. ACM SIGPLAN Notices, 2017, 52, 557-571.	0.2	5
51	Boolean-Valued Semantics for the Stochastic λ-Calculus. , 2018, , .		4
52	NetKAT â€" A Formal System for the Verification of Networks. Lecture Notes in Computer Science, 2014, , 1-18.	1.0	4
53	Coinductive Proof Principles for Stochastic Processes. Logical Methods in Computer Science, 2007, 3, .	0.4	4
54	Local variable scoping and Kleene algebra with tests. The Journal of Logic and Algebraic Programming, 2008, 76, 3-17.	1.4	3

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55	Completeness and incompleteness in nominal Kleene algebra. Journal of Logical and Algebraic Methods in Programming, 2017, 91, 17-32.	0.4	3
56	Left-handed completeness. Theoretical Computer Science, 2020, 807, 220-233.	0.5	3
57	Concurrent NetKAT. Lecture Notes in Computer Science, 2022, , 575-602.	1.0	3
58	On Moessner's Theorem. American Mathematical Monthly, 2013, 120, 131.	0.2	2
59	On the Representation of Kleene Algebras with Tests. Lecture Notes in Computer Science, 2006, , 73-83.	1.0	2
60	Capsules and Separation. , 2012, , .		1
61	Well-founded coalgebras, revisited. Mathematical Structures in Computer Science, 2017, 27, 1111-1131.	0.5	1
62	Computational inductive definability. Annals of Pure and Applied Logic, 2004, 126, 139-148.	0.3	0
63	Church–Rosser Made Easy. Fundamenta Informaticae, 2010, 103, 129-136.	0.3	0
64	A Metrized Duality Theorem for Markov Processes. Electronic Notes in Theoretical Computer Science, 2014, 308, 211-227.	0.9	0
65	Infinitary Axiomatization of the Equational Theory of Context-Free Languages. Fundamenta Informaticae, 2017, 150, 241-257.	0.3	0
66	Optimal Coin Flipping. Lecture Notes in Computer Science, 2014, , 407-426.	1.0	0