

Dexter Campbell Kozen

May 16, 2012

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Birthdate

December 20, 1951

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Citizenship

USA

Family status

Married (Frances),
three children (Alexander 27,
Geoffrey 25, Timothy 22)

Education

6/74 BA summa cum laude, Mathematics, Dartmouth College
5/77 MS, PhD, Computer Science, Cornell University

Employment

Kiewit Computation Center, Dartmouth College
1/71–7/74 Systems Programmer
Digicomp Research, Ithaca, NY
6/76–5/77 Consultant
University of California, Berkeley
9/77–9/78 Postdoctoral Fellow
IBM Research, Yorktown Heights, NY
9/78–9/81 Research Staff Member
9/82–9/85 Research Staff Member
9/82–8/85 Manager, Theory of Computation Project
Aarhus University, Denmark
9/81–9/82 Visiting Professor, Computer Science
9/91–9/92 Visiting Professor, Computer Science
Columbia University
1/84–8/85 Adjunct Professor, Computer Science
Cornell University
8/85–12/88 Associate Professor, Computer Science
1/89–10/94 Professor, Computer Science
11/94– Joseph Newton Pew, Jr. Professor in Engineering

Awards, Honors, Grants

- 6/74 John G. Kemeny Prize in Computing, Dartmouth College
- 9/74 Sage Graduate Fellowship, Cornell University
- 5/80 Outstanding Innovation Award, IBM Corporation
- 6/80 Research Grant, National Science Foundation
- 6/83 Research Grant, National Science Foundation
- 6/83 Research Grant, Office of Naval Research
- 7/86 Research Grant, National Science Foundation
- 7/86 Research Grant, AT&T Foundation
- 7/88 Research Grant, National Science Foundation
- 7/89 Research Grant, National Science Foundation
- 7/91 Fellow-in-Service, Cornell University
- 8/91 Fellow, John Simon Guggenheim Foundation
- 1/93 Prize “Nagrode” for paper [22], Polish Ministry of Education
- 3/94 Research Grant, National Science Foundation
- 4/94 Faculty of the Year, Association of Computer Science Undergraduates, Cornell
- 6/97 Research Grant, National Science Foundation
- 3/00 Class of 1960 Scholar, Williams College
- 4/01 Stephen and Margery Russell Distinguished Teaching Award, College of Arts and Sciences, Cornell
- 9/01 Research Grant, National Science Foundation
- 12/01 Prize “Nagrode” for book [167], Polish Ministry of Education
- 11/03 Fellow, Association of Computing Machinery
- 11/08 Fellow, American Association for the Advancement of Science
- 12/08 Michael Tien ’72 Excellence in Teaching Award, College of Engineering, Cornell
- 6/11 LICS Test-of-Time Award for paper [83]

Invited Conference Presentations

- 9/79 Second Symp. Fund. Comput. Theory, Berlin [62]
- 8/90 Math. Found. Comput. Sci., Banska-Bystrica, Slovakia [82]
- 6/92 Symp. on Logical Methods, Ithaca, New York [25]
- 9/93 Second Symp. Europ. Assoc. Comput. Sci. Logic (EACSL), Swansea [91]
- 9/94 First Symp. Constraints in Computational Logics, Munich [92]
- 12/94 Foundations Software Technology and Theor. Comput. Sci., Madras [94]
- 4/95 Fifth Int. Conf. Theory and Practice Software Development (TAPSOFT), Aarhus [96]
- 3/96 Second Int. Workshop Tools and Algorithms for the Construction and Analysis of Systems (TACAS’96), Passau [95]
- 1/98 Amer. Math. Soc. Joint Mathematics Meetings
- 8/99 11th Int. Congress of Logic, Methodology and Philosophy of Science, Krakow, Poland [45]
- 9/99 Math. Found. Comput. Sci., Szklarska Poręba, Poland [104]
- 1/00 5th Conf. Relational Methods in Computer Science (RelMiCS), Quebec, Canada [106]
- 2/01 18th Int. Symp. Theor. Aspects of Comp. Sci. (STACS), Dresden, Germany [108]

- 7/01 8th Workshop on Logic, Language, Information and Computation (WoLLIC), Brasilia, Brazil [47]
- 3/02 Workshop on Weighted Automata (WATA'02), Dresden, Germany
- 3/02 Clifford Lectures, Tulane University, New Orleans
- 7/02 Conf. Mathematics of Program Construction (MPC'02), Dagstuhl, Germany [112]
- 7/02 Workshop on Fixed Points in Computer Science (FICS'02), Copenhagen [111]
- 9/02 7th Int. Symp. Formal Techniques in Real-Time and Fault Tolerant Systems (FTRTFT'02), Oldenburg, Germany [110]
- 9/03 10th Int. Conf. Logic for Programming, Artificial Intelligence and Reasoning (LPAR'03), Almaty, Kazakhstan
- 1/04 Workshop on Logic and Computation, Nelson, NZ
- 4/04 Latin American Theoretical INformatics (LATIN'04), Buenos Aires
- 8/06 Math. Found. Comput. Sci., High Tatras, Slovakia
- 3/08 Workshop on Modal Fixpoint Logics, Amsterdam
- 4/08 9th Int. Workshop Coalgebraic Methods in Computer Science (Keynote), Budapest
- 6/08 23rd Symp. Logic in Computer Science, Pittsburgh
- 9/08 British Logic Colloquium, Nottingham, UK
- 1/11 Australian Computer Science Week (Keynote), Perth, Australia

Professional Activities

Program Committees

- IEEE Symp. Foundations of Computer Science, 1981, 1983, 1984, 1988 (chair), 1993, 1996
- Symp. on Fundamentals of Computation Theory, 1983, 1985, 1987
- Workshop on Logics of Programs, 1981, 1983, 1985
- IEEE Symp. Logic in Computer Science, 1986, 1989, 1994, 1995 (chair), 2007
- ACM Symp. Principles of Programming Languages, 1986
- ACM Symp. Theory of Computing, 1987, 1990
- IEEE Symp. Structure in Complexity Theory, 1990
- Int. Colloq. Automata, Languages, and Programming, 1992
- Fourth Int. Conf. Theory and Practice of Software Development (TAPSOFT), April 1993
- Principles and Practice of Constraint Programming, April 1993
- Symposium on Quantifier Elimination and Cylindrical Algebraic Decomposition
in Honor of George Collins, October 1993
- Scandinavian Workshop on Algorithm Theory, June 1994
- Workshop on Fixpoints in Computer Science, October 1998
- Foundations of Software Science and Computation Structure, 1999, 2000
- Math. Foundations of Computer Science (MFCS), 2000, 2004
- Workshop on Logic, Language, Information and Computation (WoLLIC), 2003
- Int. Conf. Mathematics of Program Construction (MPC), 2002, 2004 (chair), 2006
- 7th Int. Sem. Relational Methods in Computer Science, May 2003
- 2nd Int. Workshop Applications of Kleene Algebra, May 2003
- Computing: the Australasian Theory Symposium (CATS), January 2012

Organizing Committees

IEEE Symp. on Logic in Computer Science, 1986–1992, 1994–1999
 Workshop on Logics of Programs, 1981, 1983, 1985
 Dagstuhl Workshop on Algebraic Complexity and Parallelism, July 1992
 Symposium in honor of Juris Harmanis and Richard Stearns, March 1994
 Dagstuhl Seminar on Tree Automata, October 1997
 Dagstuhl Seminar on Applications of Kleene Algebra, February 2001
 Logics for System Analysis, July 2010

Local Arrangements

Workshop on Logics of Programs, 1981
 IEEE Symp. on Logic in Computer Science, 1987
 IEEE Symp. on Structure in Complexity Theory, 1987

Editorial Boards

Information and Control, 1984–1986
 Annals of Pure and Applied Logic, 1987 (special issue)
 J. Comput. Syst. Sci., 1988 (special issue)
 J. Algorithms, 1988 (special issue)
 Info. and Computation, 2000 (special issue)
 SIAM J. Comput., 1989–1994
 J. Relational Methods in Computer Science, 2000–
 Theory of Computing Systems, 2001–

Advisory Boards

Centre for Basic Research in Computer Science (BRICS), Aarhus University
 IEEE Symp. on Logic in Computer Science, 1999–

Other Committees

Taulbee Survey, Computing Research Assoc., 1997, chair 1998
 Gödel Prize Committee, ACM, 2000–2003, chair 2003

PhD Theses Supervised

1. Bradley T. Vander Zanden. *Incremental Constraint Satisfaction and its Application to Graphical Interfaces*. PhD thesis, Cornell University, August 1988.
2. Matthew T. Dickerson. *The Functional Decomposition of Polynomials*. PhD thesis, Cornell University, May 1989.
3. Douglas J. Ierardi. *The Complexity of Quantifier Elimination in the Theory of an Algebraically Closed Field*. PhD thesis, Cornell University, May 1989.
4. Mark B. Novick. *Parallel Algorithms for Intersection Graphs*. PhD thesis, Cornell University, May 1990.
5. Nils Klarlund. *Progress Measures and Finite Arguments for Infinite Computations*. PhD thesis, Cornell University, August 1990.

6. Devdatt Dubhashi. *Algorithmic Investigations in p -adic Fields*. PhD thesis, Cornell University, August 1992.
7. Eugene Ressler. *ALEX—A Paradigm for the Expression and Compilation of Matrix Functions*. PhD thesis, Cornell University, May 1993.
8. Kjartan Stefánsson. *Newtonian Graphs, Riemann Surfaces, and Computation*. PhD thesis, Cornell University, May 1995.
9. David Pearson. *Parallel Computing as a Commodity*. PhD thesis, Cornell University, December 1997.
10. Agnes Szanto. *Computation with Polynomial Systems*. PhD thesis, Cornell University, August 1998.
11. Arthur Neal Glew. *Low-Level Type Systems for Modularity and Object-Oriented Features*. PhD thesis, Cornell University, January 2000.
12. Sarah A. Spence. *Subspace Subcodes and Generalized Coset Codes*. PhD thesis, Cornell University, May 2002.
13. Hubert Chen. *The Computational Complexity of Quantified Constraint Satisfaction*. PhD thesis, Cornell University, August 2004.
14. Christopher Hardin. *The Horn Theory of Relational Kleene Algebra*. PhD thesis, Cornell University, May 2005.
15. Kamal Aboul-Hosn. *A Proof-Theoretic Approach to Mathematical Knowledge Management*. PhD thesis, Cornell University, December 2006.
16. Alexa Sharp. *Incremental Algorithms: Solving Problems in a Changing World*. PhD thesis, Cornell University, May 2007.
17. Jeffrey Hartline. *Incremental Optimization*. PhD thesis, Cornell University, August 2007.
18. James Michael Worthington. *Automata, Representations, and Proofs*. PhD thesis, Cornell University, August 2009.

Dexter Campbell Kozen

Publications

May 16, 2012

Journal Articles

1. Dexter Kozen. A clique problem equivalent to graph isomorphism. *SIGACT News*, 10(2):50–52, June 1978.
2. Dexter Kozen. Complexity of Boolean algebras. *Theor. Comput. Sci.*, 10:221–247, 1980.
3. Dexter Kozen. Indexings of subrecursive classes. *Theor. Comput. Sci.*, 11:277–301, 1980.
4. Ashok Chandra, Dexter Kozen, and Larry Stockmeyer. Alternation. *J. Assoc. Comput. Mach.*, 28(1):114–133, 1981.
5. Dexter Kozen. Positive first-order logic is *NP*-complete. *IBM J. Res. Develop.*, 25(4):327–332, July 1981.
6. Dexter Kozen. Semantics of probabilistic programs. *J. Comput. Syst. Sci.*, 22:328–350, 1981.
7. Dexter Kozen and Rohit Parikh. An elementary proof of the completeness of *PDL*. *Theor. Comput. Sci.*, 14(1):113–118, 1981.
8. David Harel, Dexter Kozen, and Rohit Parikh. Process logic: Expressiveness, decidability, completeness. *J. Comput. Syst. Sci.*, 25(2):144–170, 1982.
9. Dexter Kozen. Results on the propositional μ -calculus. *Theor. Comput. Sci.*, 27:333–354, 1983.
10. Dexter Kozen. A Ramsey theorem with infinitely many colors. In Lenstra, Lenstra, and van Emde Boas, editors, *Dopo Le Parole*, pages 71–72. University of Amsterdam, Amsterdam, May 1984.
11. David Harel and Dexter Kozen. A programming language for the inductive sets, and applications. *Information and Control*, 63(1–2):118–139, 1984.
12. Dexter Kozen. A probabilistic *PDL*. *J. Comput. Syst. Sci.*, 30(2):162–178, April 1985.
13. Michael Ben-Or, Dexter Kozen, and John Reif. The complexity of elementary algebra and geometry. *J. Comput. Syst. Sci.*, 32(2):251–264, 1986.
14. Andreas Blass, Dexter Kozen, and Yuri Gurevich. A zero-one law for logic with a least fixpoint operator. *Information and Control*, 67(1-3):70–90, 1985.

15. Krzysztof Apt and Dexter Kozen. Limits for automatic verification of finite-state concurrent systems. *Information Processing Letters*, 22:307–309, 1986.
16. Dexter Kozen. Fast parallel orthogonalization. *SIGACT News*, 18(2):47, Fall 1986.
17. Dexter Kozen. A finite model theorem for the propositional μ -calculus. *Studia Logica*, 47(3):233–241, 1988.
18. Michael Ben-Or, Ephraim Feig, Dexter Kozen, and Prason Tiwari. Fast parallel algorithms for finding the roots of a polynomial with all real roots. *SIAM J. Comput.*, 17(6):1081–1092, 1988.
19. Dexter Kozen and Susan Landau. Polynomial decomposition algorithms. *J. Symb. Comput.*, 7:445–456, 1989.
20. Neil Immerman and Dexter Kozen. Definability with bounded number of bound variables. *Infor. and Comp.*, 83(2):121–139, November 1989.
21. Wilfred Chen, John Field, Dexter Kozen, William Pugh, Tim Teitelbaum, and Brad Vander Zanden. ALEX—an alexical programming language. In Ichikawa, Jungert, and Korfhage, editors, *Visual Languages and Applications*, pages 147–158. Plenum Press, 1990.
22. Dexter Kozen and Jerzy Tiuryn. Logics of programs. In J. van Leeuwen, editor, *Handbook of Theoretical Computer Science*, volume B, pages 789–840. North Holland, Amsterdam, 1990.
23. Dexter Kozen. On action algebras. In J. van Eijck and A. Visser, editors, *Logic and Information Flow*, pages 78–88. MIT Press, 1994.
24. Dexter Kozen. On the Myhill-Nerode theorem for trees. *Bull. Europ. Assoc. Theor. Comput. Sci.*, 47:170–173, June 1992.
25. Dexter Kozen. Partial automata and finitely generated congruences: An extension of Nerode’s theorem. In J. N. Crossley, J. B. Remmel, R. A. Shore, and M. E. Sweedler, editors, *Logical Methods: In Honor of Anil Nerode’s Sixtieth Birthday*, pages 490–511. Birkhäuser, Ithaca, New York, 1993.
26. Doug Ierardi and Dexter Kozen. Parallel resultant computation. In J. Reif, editor, *Synthesis of Parallel Algorithms*, pages 679–720. Morgan Kaufmann, 1993.
27. Dexter Kozen and Shmuel Zaks. Optimal bounds for the change-making problem. *Theor. Comput. Sci.*, 123:377–388, 1994.
28. Dexter Kozen. A completeness theorem for Kleene algebras and the algebra of regular events. *Infor. and Comput.*, 110(2):366–390, May 1994.

29. Dexter Kozen, Jens Palsberg, and Michael I. Schwartzbach. Efficient inference of partial types. *J. Comput. Syst. Sci.*, 49(2):306–324, October 1994.
30. Alexander Aiken, Dexter Kozen, and Edward Wimmers. Decidability of systems of set constraints with negative constraints. *Infor. and Comput.*, 122(1):30–44, October 1995.
31. Dexter Kozen, Jens Palsberg, and Michael I. Schwartzbach. Efficient recursive subtyping. *Mathematical Structures in Computer Science*, 5:113–125, 1995.
32. Dexter Kozen, Susan Landau, and Richard Zippel. Decomposition of algebraic functions. *Journal of Symbolic Computation*, 22(3):235–246, September 1996.
33. Nils Klarlund and Dexter Kozen. Rabin measures. *Chicago Journal of Theoretical Computer Science*, 1995(3), September 1995.
34. Dexter Kozen. On regularity-preserving functions. *Bull. Europ. Assoc. Theor. Comput. Sci.*, 58:131–138, February 1996.
35. Dexter Kozen. Rational spaces and set constraints. *Theoretical Computer Science*, 167:73–94, 1996.
36. Dexter Kozen and Kjartan Stefansson. Computing the Newtonian graph. *Journal of Symbolic Computation*, 24:125–136, 1997.
37. Dexter Kozen. Kleene algebra with tests. *Transactions on Programming Languages and Systems*, 19(3):427–443, May 1997.
38. Dexter Kozen. Set constraints and logic programming. *Information and Computation*, 142(1):2–25, April 1998.
39. Dexter Kozen. On Hoare logic and Kleene algebra with tests. *Trans. Computational Logic*, 1(1):60–76, July 2000.
40. Ernie Cohen and Dexter Kozen. A note on the complexity of propositional Hoare logic. *Trans. Computational Logic*, 1(1):171–174, July 2000.
41. Dexter Kozen and Jerzy Tiuryn. On the completeness of propositional Hoare logic. *Information Sciences*, 139(3–4):187–195, 2001.
42. David Harel, Dexter Kozen, and Jerzy Tiuryn. Dynamic logic. In D. M. Gabbay and F. Guenther, editors, *Handbook of Philosophical Logic*, volume 4, pages 99–217. Kluwer, 2nd edition, 2002.
43. Dexter Kozen. On the complexity of reasoning in Kleene algebra. *Information and Computation*, 179:152–162, 2002.
44. Robert Givan, David McAllester, Carl Witty, and Dexter Kozen. Tarskian set constraints. *Information and Computation*, 174(2):105–131, May 2002.

45. Dexter Kozen. On Hoare logic, Kleene algebra, and types. In P. Gärdenfors, J. Woleński, and K. Kijania-Placek, editors, *In the Scope of Logic, Methodology, and Philosophy of Science: Volume 1 of the 11th Int. Congress Logic, Methodology and Philosophy of Science, Cracow, August 1999*, volume 315 of *Studies in Epistemology, Logic, Methodology, and Philosophy of Science*, pages 119–133. Kluwer, 2002.
46. Dexter Kozen and Jerzy Tiuryn. Substructural logic and partial correctness. *Trans. Computational Logic*, 4(3):355–378, July 2003.
47. Dexter Kozen. Automata on guarded strings and applications. *Matématica Contemporânea*, 24:117–139, 2003.
48. Dexter Kozen. Computational inductive definability. *Annals of Pure and Applied Logic*, 126(1–3):139–148, April 2004. Special issue: *Provinces of logic determined. Essays in the memory of Alfred Tarski*. Zofia Adamowicz, Sergei Artemov, Damian Niwinski, Ewa Orłowska, Anna Romanowska, and Jan Wolenski (eds.).
49. Dexter Kozen. Some results in dynamic model theory. *Science of Computer Programming*, 51(1–2):3–22, May 2004. Special issue: *Mathematics of Program Construction (MPC 2002)*. Eerke Boiten and Bernhard Möller (eds.).
50. Kamal Aboul-Hosn and Dexter Kozen. KAT-ML: An interactive theorem prover for Kleene algebra with tests. *Journal of Applied Non-Classical Logics*, 16(1–2):9–33, 2006.
51. Dexter Kozen. Coinductive proof principles for stochastic processes. *Logical Methods in Computer Science*, 3(4:8), 2007. DOI: 10.2168/LMCS-3 (4:8) 2007.
52. Kamal Aboul-Hosn and Dexter Kozen. Local variable scoping and Kleene algebra with tests. *J. Log. Algebr. Program.*, 2007. DOI: 10.1016/j.jlap.2007.10.007.
53. Fred B. Schneider, Dexter Kozen, Greg Morrisett, and Andrew C. Myers. Language-based security for malicious mobile code. In *Department of Defense Sponsored Information Security Research: New Methods for Protecting Against Cyber Threats*, pages 477–494. Wiley, 2007.
54. Dexter Kozen. Church-Rosser made easy. *Fundamenta Informaticae*, 103:129–136, 2010.
55. Dexter Kozen. Halting and equivalence of program schemes in models of arbitrary theories. In Andreas Blass, Nachum Dershowitz, and Wolfgang Reisig, editors, *Fields of Logic and Computation: Essays Dedicated to Yuri Gurevich on the Occasion of His 70th Birthday*, volume 6300 of *Lecture Notes in Computer Science*, pages 463–469. Springer-Verlag, August 2010.
56. Dexter Kozen and Ganesh Ramanarayanan. Publication/citation: A proof-theoretic approach to mathematical knowledge management. In Johan van Benthem, Amitabha Gupta, and Eric Pacuit, editors, *Games, Norms, and Reasons: Logic at the Crossroads*,

volume 353 of *Synthese Library*, pages 151–161. Dordrecht, Springer Science and Business Media, 2011.

Conference Papers

57. Dexter Kozen. On parallelism in Turing machines. In *Proc. 17th Symp. Found. Comput. Sci.*, pages 89–97. IEEE, October 1976.
58. Dexter Kozen. Complexity of finitely presented algebras. In *Proc. 9th Symp. Theory of Comput.*, pages 164–177. ACM, May 1977.
59. Dexter Kozen. Lower bounds for natural proof systems. In *Proc. 18th Symp. Found. Comput. Sci.*, pages 254–266. IEEE, October 1977.
60. Manuel Blum and Dexter Kozen. On the power of the compass. In *Proc. 19th Symp. Found. Comput. Sci.*, pages 132–142. IEEE, October 1978.
61. Dexter Kozen. Indexings of subrecursive classes. In *Proc. 10th Symp. Theory of Comput.*, pages 287–295. ACM, May 1978.
62. Dexter Kozen. Automata and planar graphs. In *Proc. 2nd Symp. Fund. Comput. Theory*, pages 243–254, Berlin, September 1979.
63. Dexter Kozen. Semantics of probabilistic programs. In *Proc. 20th Symp. Found. Comput. Sci.*, pages 101–114. IEEE, October 1979.
64. Dexter Kozen. On the duality of dynamic algebras and Kripke models. In E. Engeler, editor, *Proc. Workshop on Logic of Programs*, volume 125 of *Lecture Notes in Computer Science*, pages 1–11. Springer-Verlag, 1979.
65. Dexter Kozen. Dynamic algebra. In E. Engeler, editor, *Proc. Workshop on Logic of Programs*, volume 125 of *Lecture Notes in Computer Science*, pages 102–144. Springer-Verlag, 1979. chapter of *Propositional dynamic logics of programs: A survey* by Rohit Parikh.
66. Dexter Kozen. A representation theorem for models of $*$ -free PDL. In *Proc. 7th Colloq. Automata, Languages, and Programming*, pages 351–362. EATCS, July 1980.
67. David Harel, Dexter Kozen, and Rohit Parikh. Process logic: Expressiveness, decidability, completeness. In *Proc. 21st Symp. Found. Comput. Sci.*, pages 129–142. IEEE, October 1980.
68. Dexter Kozen. On induction vs. $*$ -continuity. In Kozen, editor, *Proc. Workshop on Logic of Programs*, volume 131 of *Lecture Notes in Computer Science*, pages 167–176, New York, 1981. Springer-Verlag.

69. Dexter Kozen. Results on the propositional μ -calculus. In *Proc. 9th Int. Colloq. Automata, Languages, and Programming*, pages 348–359, Aarhus, Denmark, July 1982. EATCS.
70. David Harel and Dexter Kozen. A programming language for the inductive sets, and applications. In *Proc. 9th Int. Colloq. Automata, Languages, and Programming*, pages 313–329, Aarhus, Denmark, July 1982. EATCS.
71. Dexter Kozen and Rohit Parikh. A decision procedure for the propositional μ -calculus. In Clarke and Kozen, editors, *Proc. Workshop on Logics of Programs*, volume 164 of *Lecture Notes in Computer Science*, pages 313–325. Springer-Verlag, 1983.
72. Dexter Kozen. A probabilistic PDL. In *Proc. 15th Symp. Theory of Comput.*, pages 291–297. ACM, April 1983.
73. Michael Ben-Or, Dexter Kozen, and John Reif. The complexity of elementary algebra and geometry. In *Proc. 16th Symp. Theory of Comput.*, pages 457–464. ACM, May 1984.
74. Dexter Kozen. Pebblings, edgings, and equational logic. In *Proc. 16th Symp. Theory of Comput.*, pages 428–435. ACM, May 1984.
75. Nissim Francez and Dexter Kozen. Generalized fair termination. In *Proc. 11th Symp. Princip. Programming Lang.*, pages 46–53, Salt Lake City, January 1984. ACM.
76. Dexter Kozen and Chee K. Yap. Algebraic cell decomposition in NC. In *Proc. 26th Symp. Found. Comput. Sci.*, pages 515–521. IEEE, October 1985.
77. Dexter Kozen, Umesh Vazirani, and Vijay Vazirani. NC algorithms for comparability graphs, interval graphs, and unique perfect matching. In Maheshwari, editor, *Proc. 5th Conf. Found. Software Technology and Theor. Comput. Sci.*, volume 206 of *Lecture Notes in Computer Science*, pages 496–503, New Delhi, December 1985. Springer-Verlag.
78. Michael Ben-Or, Ephraim Feig, Dexter Kozen, and Prason Tiwari. Fast parallel algorithms for finding the roots of a polynomial with all real roots. In *Proc. 18th Symp. Theory of Comput.*, pages 340–349. ACM, May 1986.
79. Neil Immerman and Dexter Kozen. Definability with bounded number of bound variables. In *Proc. 2nd Symp. Logic in Comput. Sci.*, pages 236–244. IEEE, June 1987.
80. Joachim von zur Gathen, Dexter Kozen, and Susan Landau. Functional decomposition of polynomials. In *Proc. 28th Symp. Found. Comput. Sci.*, pages 127–131. IEEE, November 1987.
81. Wilfred Chen, John Field, Dexter Kozen, William Pugh, Tim Teitelbaum, and Brad Vander Zanden. ALEX—an alexical programming language. In *Proc. 1987 Workshop on Visual Languages*, pages 315–329, Linköping, Sweden, August 1987.

82. Dexter Kozen. On Kleene algebras and closed semirings. In Rovan, editor, *Proc. Math. Found. Comput. Sci.*, volume 452 of *Lecture Notes in Computer Science*, pages 26–47, Banská-Bystrica, Slovakia, 1990. Springer-Verlag.
83. Dexter Kozen. A completeness theorem for Kleene algebras and the algebra of regular events. In *Proc. 6th Symp. Logic in Comput. Sci.*, pages 214–225, Amsterdam, July 1991. IEEE.
84. Nils Klarlund and Dexter Kozen. Rabin measures and their application to fairness and automata theory. In *Proc. 6th Symp. Logic in Comput. Sci.*, pages 256–265. IEEE, July 1991.
85. Dexter Kozen, Jens Palsberg, and Michael I. Schwartzbach. Efficient inference of partial types. In *Proc. 33rd Symp. Found. Comput. Sci.*, pages 363–371. IEEE, October 1992.
86. Dexter Kozen and Shmuel Zaks. Optimal bounds for the change-making problem. In *Proc. 20th Int. Colloq. on Automata, Languages, and Programming*, volume 700 of *Lecture Notes in Computer Science*, pages 150–161, Lund, Sweden, July 1993. EATCS, Springer-Verlag.
87. Dexter Kozen, Jens Palsberg, and Michael I. Schwartzbach. Efficient recursive subtyping. In *Proc. 20th Symp. Princip. Programming Lang.*, pages 419–428, Charleston, SC, January 1993. ACM.
88. Alexander Aiken, Dexter Kozen, Moshe Vardi, and Edward Wimmers. The complexity of set constraints. In E. Börger, Y. Gurevich, and K. Meinke, editors, *Proc. 1993 Conf. Computer Science Logic (CSL'93)*, volume 832 of *Lecture Notes in Computer Science*, pages 1–17, Swansea, U. K., September 1993. Eur. Assoc. Comput. Sci. Logic, Springer-Verlag.
89. Dexter Kozen and Kjartan Stefánsson. Computing the Newtonian graph. In *Trans. 11th Army Conference on Applied Math. and Computing*, pages 55–69. Army Research Office, June 1993.
90. Dexter Kozen, Susan Landau, and Richard Zippel. Decomposition of algebraic functions. In L. Adleman and M.-D. Huang, editors, *Proc. First Algorithmic Number Theory Symposium (ANTS)*, volume 877 of *Lecture Notes in Computer Science*, pages 80–92, Ithaca, New York, May 1994. Mathematical Sciences Institute, Springer-Verlag.
91. Dexter Kozen. Logical aspects of set constraints. In E. Börger, Y. Gurevich, and K. Meinke, editors, *Proc. 1993 Conf. Computer Science Logic (CSL'93)*, volume 832 of *Lecture Notes in Computer Science*, pages 175–188, Swansea, U. K., September 1993. Eur. Assoc. Comput. Sci. Logic, Springer-Verlag.

92. Dexter Kozen. Set constraints and logic programming (abstract). In J.-P. Jouannaud, editor, *Proc. First Conf. Constraints in Computational Logics (CCL'94)*, volume 845 of *Lecture Notes in Computer Science*, pages 302–303, Munich, Germany, September 1994. ESPRIT, Springer-Verlag.
93. Jin-Yi Cai, W. H. J. Fuchs, Dexter Kozen, and Zicheng Liu. Efficient average-case algorithms for the modular group. In *Proc. 35th Symp. Found. Comput. Sci.*, pages 143–152. IEEE, November 1994.
94. Dexter Kozen. Efficient resolution of singularities of plane curves. In P. S. Thiagarajan, editor, *Proc. 14th Conf. Foundations of Software Technology and Theoretical Computer Science*, volume 880 of *Lecture Notes in Computer Science*, pages 1–11, Madras, India, December 1994. Springer-Verlag.
95. Dexter Kozen. Kleene algebra with tests and commutativity conditions. In T. Margaria and B. Steffen, editors, *Proc. Second Int. Workshop Tools and Algorithms for the Construction and Analysis of Systems (TACAS'96)*, volume 1055 of *Lecture Notes in Computer Science*, pages 14–33, Passau, Germany, March 1996. Springer-Verlag.
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