

Anuj Dawar – Publications

Edited Volumes

1. Petra Berenbrink, Patricia Bouyer, Anuj Dawar, Mamadou Moustapha Kanté, *STACS 2023: Proceedings of the 40th International Symposium on Theoretical Aspects of Computer Science*, (LIPICS 2023).
2. Anuj Dawar and Venkatesan Guruswami, *FSTTCS 2022: Proceedings of the 42nd IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science*, (LIPICS 2022).
3. Artur Czumaj, Anuj Dawar and Emanuela Merelli, *ICALP 2020: Proceedings of the 47th International Colloquium on Automata, Languages, and Programming*, (LIPICS 2020).
4. Anuj Dawar and Erich Grädel, *LICS 2018: Proceedings of the 33rd Annual ACM/IEEE Symposium on Logic in Computer Science*, (ACM 2018).
5. S. Barry Cooper, Anuj Dawar and Benedikt Löwe, *How the World Computes - Turing Centenary Conference*, Lecture Notes in Computer Science 7318, (Springer-Verlag 2012).
6. Anuj Dawar and Helmut Veith, *Computer Science Logic*, Lecture Notes in Computer Science 6247, (Springer-Verlag 2010).
7. Anuj Dawar and Ruy J. G. B. de Queiroz, *Logic, Language, Information and Computation*, Lecture Notes in Computer Science 6188, (Springer-Verlag 2010).
8. Anuj Dawar, *Proceedings of the 5th International Workshop on Implicit Computational Complexity*, Electronic Notes in Theoretical Computer Science 90, (Elsevier 2003).

Journal Articles

9. Anuj Dawar and Abhisekh Sankaran, “MSO Undecidability for Hereditary Classes of Unbounded Clique-width”. *European Journal of Combinatorics* **123** (2025).
10. Adam Ó Conghaile, Anuj Dawar, “Game Comonads and Generalised Quantifiers”. *Logical Methods in Computer Science* **20** (2024).
11. Anuj Dawar, Erich Grädel and Moritz Lichter, “Limitations of the Invertible-Map Equivalences”. *Journal of Logic and Computation* **33** (2023) pp.961-969.
12. Anuj Dawar, Gregory Wilsenach, “Symmetric Circuits for Rank Logic”. *ACM Transactions on Computational Logic* **23** (2022) pp.6:1-6:35.
13. Albert Atserias, Anuj Dawar, Joanna Ochremiak, “On the Power of Symmetric Linear Programs”. *Journal of the ACM* **68** (2021) pp.26:1-26:35.
14. Anuj Dawar, Simone Severini and Octavio Zapata, “Descriptive Complexity of Graph Spectra”. *Annals of Pure and Applied Logic* **170** (2019) pp.993-1007.
15. Anuj Dawar and Kashif Khan, “Constructing Hard Examples for Graph Isomorphism”. *Journal of Graph Algorithms and Applications* **23** (2019) pp.293-316.
16. Anuj Dawar and Eryk Kopczynski, “Logical Properties of Random Graphs from Small Addable Classes”. *Logical Methods in Computer Science* **15** (2019).
17. Albert Atserias and Anuj Dawar, “Definable inapproximability: New Challenges for Duplicator”. *Journal of Logic and Computation* **29** (2019) pp.1185-1210.

18. Anuj Dawar and Eryk Kopczyński, “Bounded Degree and Planar Spectra”, *Logical Methods in Computer Science*, **13**:4 (2017).
19. Jannis Bulian and Anuj Dawar, “Fixed-Parameter Tractable Distances to Sparse Graph Classes”, *Algorithmica* **79** (2017), pp.139-158.
20. Anuj Dawar and Bjarki Holm, “Pebble Games with Algebraic Rules”, *Fundamenta Informaticae* **150** (2017), pp.281-316
21. Matthew Anderson and Anuj Dawar, “On Symmetric Circuits and Fixed-Point Logics”, *Theory Comput. Syst.* **60** (2017), pp.521-551.
22. Anuj Dawar, Thomas Forster and Zachiri McKenzie, “Decidable Fragments of the Simple Theory of Types with Infinity and NF”, *Notre Dame Journal of Formal Logic* **58** (2017), pp.433-451.
23. Jannis Bulian and Anuj Dawar, “Graph Isomorphism Parameterized by Elimination Distance to Bounded Degree”, *Algorithmica* **75** (2016), pp.363-382.
24. Matthew Anderson, Anuj Dawar and Bjarki Holm, “Solving Linear Programs without Breaking Abstractions”, *Journal of the ACM* **62** (2015), pp.48:1-48:26
25. Albert Atserias and Anuj Dawar, “Degree Lower Bounds of Tower-Type for Approximating Formulas with Parity Quantifiers”, *ACM Transactions on Computational Logic* **15** (2014).
26. Anuj Dawar, Erich Grädel, Bjarki Holm, Eryk Kopczyński and Wied Pakusa, “Definability of Linear Equation Systems over Groups and Rings”, *Logical Methods in Computer Science*, **9** (2013).
27. Dietmar Berwanger, Anuj Dawar, Paul Hunter, Stephan Kreutzer and Jan Obdržálek, “The DAG-width of Directed Graphs”, *Journal of Combinatorial Theory, Series B*, **102** (2012), pp.900–923.
28. Anuj Dawar, “Homomorphism Preservation on Quasi-Wide Classes”, *Journal of Computer and System Sciences*, **76** (2010), pp.324–332.
29. Anuj Dawar and Erich Grädel, “Properties of Almost All Graphs and Generalized Quantifiers”, *Fundamenta Informaticae*, **98** (2010), pp.351–372.
30. Anuj Dawar and Martin Otto, “Modal Characterisation Theorems over Special Classes of Frames”, *Annals of Pure and Applied Logic*, **161** (2009), pp.1–42.
31. Albert Atserias, Andrei Bulatov and Anuj Dawar, “Affine Systems of Equations and Counting Infinitary Logic”, *Theoretical Computer Science*, **410** (2009), pp.1666–1693.
32. Albert Atserias, Anuj Dawar and Martin Grohe, “Preservation under Extensions on Well-behaved Finite Structures”, *SIAM Journal on Computing*, **38** (2008), pp.1364–1381.
33. Anuj Dawar, David Richerby and Benjamin Rossman, “Choiceless Polynomial Time, Counting and the Cai-Fürer-Immerman Graphs”, *Annals of Pure and Applied Logic*, **152** (2008), pp.31–50.
34. Anuj Dawar and Stephan Kreutzer, “Generalising Automaticity to Modal Properties of Finite Structures”, *Theoretical Computer Science*, **379** (2007), pp.266–285.
35. Anuj Dawar and David Janin, “The Monadic Theory of Finite Representations of Infinite Words”, *Information Processing Letters*, **103** (2007), pp.94–101.

36. Anuj Dawar, Philippa Gardner and Giorgio Ghelli, “Expressiveness and Complexity of Graph Logic”, *Information and Computation*, **205** (2007), pp.263–310.
37. Albert Atserias, Anuj Dawar and Phokion G. Kolaitis, “On Preservation under Homomorphisms and Unions of Conjunctive Queries”, *Journal of the ACM*, **53** (2006), pp.208–237.
38. Anuj Dawar, Erich Grädel and Stephan Kreutzer, “Backtracking Games and Inflationary Fixed Points”, *Theoretical Computer Science*, **350** (2006), pp.174–187.
39. Anuj Dawar, Erich Grädel and Stephan Kreutzer, “Inflationary Fixed Points in Modal Logic.”, *ACM Transactions on Computational Logic*, **5** (2004), pp.282–315.
40. Anuj Dawar and David Richerby. “Fixed-Point Logics with Nondeterministic Choice,” *Journal of Logic and Computation*, **13** (2003), pp.503–530.
41. Anuj Dawar and Yuri Gurevich. “Fixed Point Logics,” *Bulletin of Symbolic Logic*, **8** (2002), pp.65–88.
42. Anuj Dawar. “A Restricted Second-Order Logic for Finite Structures,” *Information and Computation*, **143** (1998), pp.154–174.
43. Anuj Dawar, Kees Doets, Steven Lindell and Scott Weinstein. “Elementary Properties of the Finite Ranks,” *Mathematical Logic Quarterly*, **44** (1998), pp.349–353.
44. Anuj Dawar, Georg Gottlob and Lauri Hella. “Capturing Relativized Complexity Classes without Order,” *Mathematical Logic Quarterly*, **44** (1998), pp.109–122.
45. Anuj Dawar and Lauri Hella. “The Expressive Power of Finitely Many Generalized Quantifiers,” *Information and Computation*, **123** (1995), pp.172–184.
46. Anuj Dawar, Steven Lindell and Scott Weinstein. “Infinitary Logic and Inductive Definability over Finite Structures,” *Information and Computation*, **119** (1995) pp.160–175.
47. Anuj Dawar. “Generalized Quantifiers and Logical Reducibilities,” *Journal of Logic and Computation*, **5** (1995), pp.213–226.
48. Anuj Dawar and K. Vijay-Shanker. “An Interpretation of Negation in Feature Structure Descriptions,” *Computational Linguistics*, **16**, (1990), pp.11–21.

Book Chapters

49. Anatole Dahan and Anuj Dawar, “Relativization of Gurevich’s Conjectures”, *Fields of Logic and Computation III*, Lecture Notes in Computer Science 12180, Springer-Verlag (2020) pp.95-104.
50. Anuj Dawar, Erich Grädel and Matthias Hoelzel, “Convergence and Nonconvergence Laws for Random Expansions of Product Structures”, *Fields of Logic and Computation III* Lecture Notes in Computer Science 12180, Springer-Verlag (2020) pp.118-132.
51. Anuj Dawar, “FPC and the Symmetry Gap in Combinatorial Optimization”, *Proceedings of the 14th and 15th Asian Logic Conferences*, World Scientific (2019), pp.53-79.
52. Anuj Dawar and Luc Segoufin, “Capturing MSO with One Quantifier”, *Fields of Logic and Computation II*, Lecture Notes in Computer Science 9300, Springer-Verlag (2015), pp.142-152.
53. Anuj Dawar, “On Complete Problems, Relativizations and Logics for Complexity Classes”, in A. Blass, N. Dershowitz and W. Reisig (eds.), *Fields of Logic and Computation: Essays Dedicated to Yuri Gurevich*, Lecture Notes in Computer Science 6300, Springer-Verlag (2010), pp.201–207.

54. Anuj Dawar and Bjarki Holm, “Pebble Games for Logics with Counting and Rank”, in P. Cégielski (ed.), *Studies in Weak Arithmetics*, CSLI Publications (2010), pp.99–120.
55. Anuj Dawar, “Computational Complexity and the Expressive Power of Logics”, in M.K. Chakraborty, B. Loewe, M.N. Mitra and S Sarrukai (eds.), *Logic, Navya-Nyaya and Applications*, College Publications (2008), pp.81–104.
56. Anuj Dawar, “How Many First-Order Variables are Needed on Finite Ordered Structures?”, in S. Artemov, H. Barringer, A. S. d’Avila Garcez, L. C. Lamb, and J. Woods (eds.), *We Will Show Them: Essays in Honour of Dov Gabbay, Vol 1.*, College Publications (2005), pp.489–520.
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59. Anuj Dawar, “Types and Indiscernibles in Finite Models,” in J.A. Makowsky and E.V. Ravve (eds.), *Logic Colloquium*, Lecture Notes in Logic, Springer-Verlag, (1998), pp.51–65.
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61. Anuj Dawar. “A Restricted Second-Order Logic for Finite Structures,” in D. Leivant (ed.), *Logic and Computational Complexity*, Lecture Notes in Computer Science 960, (Springer-Verlag 1995), pp.393–413.

Invited Conference Papers

62. Anuj Dawar, “Limits of Symmetric Computation (Invited Talk)”. *ICALP 2024: Automata, Logic and Programming’* LIPICS 297 (2024) pp.1:1-1:8
63. Anuj Dawar, “Symmetric Computation”, *CSL 2020: Computer Science Logic*, LIPICS 152 (2020), pp.2:1-2:12.
64. Anuj Dawar, “On Symmetric and Choiceless Computation”, *TTCS: Topics in Theoretical Computer Science*, Lecture Notes in Computer Science 9541, (Springer-Verlag 2015), pp.23-29.
65. Anuj Dawar, “The Complexity of Satisfaction on Sparse Graphs”, *IPEC’10: Parameterized and Exact Computation*, Lecture Notes in Computer Science 6478, (Springer-Verlag 2010), pp.1–2.
66. Anuj Dawar, “Structure and Specification as Sources of Complexity”, *FSTTCS’09: Foundations of Software Technology and Theoretical Computer Science*, Leibniz International Proceedings in Informatics 4, (2009), pp.407–416
67. Anuj Dawar, “On the Descriptive Complexity of Linear Algebra,” *WoLLIC’08: Logic, Language, Information and Computation*, Lecture Notes in Computer Science 5110, (Springer-Verlag 2008), pp.17–25.

68. Anuj Dawar, “Model-Checking First-Order Logic: Automata and Locality”, *CSL’07: Computer Science Logic*, Lecture Notes in Computer Science 4646, (Springer-Verlag 2007), p6.
69. Anuj Dawar, “Finite Model Theory on Tame Classes of Structures,” *MFCS’07: Mathematical Foundations of Computer Science* Lecture Notes in Computer Science 4708, (Springer-Verlag 2007), pp.2–12.

Other Invited Articles

70. Anuj Dawar and Benedikt Pago, “A Logic for P: Are we Nearly There Yet?”, *ACM SIGLOG News* **11** (2024) pp.35-60.
71. Anuj Dawar, “Report on The Graph Isomorphism Problem”, *Bulletin of the EATCS* **118** (2016).
72. Anuj Dawar, “The Nature and Power of Fixed-Point Logic with Counting”, *ACM SIGLOG News* **2** (2015) pp.8-21.

Refereed Conference Proceedings

73. Anuj Dawar, Ioannis Eleftheriadis, “Preservation Theorems on Sparse Classes Revisited”. *Proc. 49th International Conference on Mathematical Foundations of Computer Science (MFCS 2024)* Leibniz International Proceedings in Informatics 306 47:1-47:16.
74. Anuj Dawar, Lauri Hella: “Quantifiers Closed Under Partial Polymorphisms”. *CSL 2024: Computer Science Logic* Leibniz International Proceedings in Informatics 288 23:1-23:19.
75. Samuel Braunfeld, Anuj Dawar, Ioannis Eleftheriadis and Aris Papadopoulos, “Monadic NIP in Monotone Classes of Relational Structures.” *Proc. 50th International Colloquium on Automata Languages and Programming (ICALP 2023)*, Leibniz International Proceedings in Informatics 261 119:1-119:18.
76. Anuj Dawar, Felipe Ferreira Santos, “Separating LREC from LFP”. *Proc. 37th IEEE Symp. on Logic in Computer Science (LICS 2022)* 55:1-55:13.
77. Anuj Dawar, Abhisekh Sankaran, “MSO Undecidability for Hereditary Classes of Unbounded Clique Width”. *CSL 2022: Computer Science Logic*, Leibniz International Proceedings in Informatics 216 17:1-17:17.
78. Anuj Dawar, Gregory Wilsenach, “Lower Bounds for Symmetric Circuits for the Determinant”. *ITCS 2022: Innovations in Theoretical Computer Science* Leibniz International Proceedings in Informatics 215 52:1-52:22
79. Adam Ó Conghaile and Anuj Dawar, “Game Comonads and Generalised Quantifiers”, *CSL 2021: Computer Science Logic*, Leibniz International Proceedings in Informatics 183 16:1-16:17.
80. Anuj Dawar and Abhisekh Sankaran, “Extension Preservation in the Finite and Prefix Classes of First Order Logic”. *CSL 2021: Computer Science Logic*, Leibniz International Proceedings in Informatics 183 18:1-18:13.
81. Anuj Dawar and Gregory Wilsenach, “Symmetric Arithmetic Circuits”. *Proc. 47th International Colloquium on Automata Languages and Programming (ICALP 2020)*, Leibniz International Proceedings in Informatics 168 36:1-36:18.

82. Anuj Dawar, Erich Grädel and Wied Pakusa, “Approximations of Isomorphism and Logics with Linear-Algebraic Operators”. *proc. 46th International Colloquium on Automata Languages and Programming (ICALP 2019)*, Leibniz International Proceedings in Informatics 132, 112:1-112:14.
83. Albert Atserias, Anuj Dawar and Joanna Ochremiak, “On the Power of Symmetric Linear Programs”. *Proc. 34th IEEE Symp. on Logic in Computer Science (LICS 2019)*.
84. Albert Atserias and Anuj Dawar, “Definable Inapproximability: New Challenges for Duplicator”. *CSL’18: Computer Science Logic*, Leibniz International Proceedings in Informatics 119 (2018), 7:1-7:21.
85. Anuj Dawar, Gregory Wilsenach, “Symmetric Circuits for Rank Logic”, *CSL’18: Computer Science Logic*, Leibniz International Proceedings in Informatics 119 (2018), 20:1-20:16.
86. Faried Abu Zaid, Anuj Dawar, Erich Grädel and Wied Pakusa, “Definability of summation problems for Abelian groups and semigroups”, *Proc. 32nd IEEE Symp. on Logic in Computer Science (LICS 2017)*.
87. Samson Abramsky, Anuj Dawar and Pengming Wang, “The Pebbling Comonad in Finite Model Theory”, *Proc. 32nd IEEE Symp. on Logic in Computer Science (LICS 2017)*.
88. Anuj Dawar and Pengming Wang, “Lasserre Lower Bounds and Definability of Semidefinite Programming”, *Proc. 32nd IEEE Symp. on Logic in Computer Science (LICS 2017)*.
89. Anuj Dawar, Simone Severini and Octavio Zapata, “Descriptive Complexity of Graph Spectra”, *Proc. 23rd Workshop on Logic, Language and Computation (WoLLIC 2017)*, pp.183-199.
90. Anuj Dawar and Pengming Wang, “A Definability Dichotomy for Finite Valued CSPs”, *CSL’15: Computer Science Logic*, Leibniz International Proceedings in Informatics 41 (2015), pp.60-77.
91. Jannis Bulian and Anuj Dawar, “Fixed-parameter Tractable Distances to Sparse Graph Classes”, *Proc. 10th International Symposium on Parameterized and Exact Computation (IPEC 2015)*. Leibniz International Proceedings in Informatics 43 (2015), pp.236-247.
92. Jannis Bulian and Anuj Dawar, “Graph Isomorphism Parameterized by Elimination Distance to Bounded Degree”, *Proc. 9th International Symposium on Parameterized and Exact Computation (IPEC 2014)*, Lecture Notes in Computer Science 8894, (Springer 2014) pp.135–146.
93. Matthew Anderson and Anuj Dawar, “On Symmetric Circuits and Fixed-Point Logics”, *Proc. 31st International Symp. Theoretical Aspects of Computer Science (STACS 2014)* pp.41-52.
94. Matthew Anderson, Anuj Dawar and Bjarki Holm, “Maximum Matching and Linear Programming in Fixed-Point Logic with Counting”, *Proc. 29th IEEE Symp. on Logic in Computer Science (LICS 2013)* pp.173-182.
95. Adam Bouland, Anuj Dawar and Eryk Kopczyński, “On Tractable Parameterizations of Graph Isomorphism”, *Proc. 7th International Symposium on Parameterized and*

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96. Anuj Dawar, Erich Grädel, Bjarki Holm, Eryk Kopczyński and Wied Pakusa, “Definability of Linear Equation Systems over Groups and Rings”, *CSL’12: Computer Science Logic*, Leibniz International Proceedings in Informatics 16, (2012), pp.213–227.
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 99. Anuj Dawar and Stephan Kreutzer, “Domination Problems in Nowhere-Dense Classes”, *Proc. 29th Conf. on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2009)*, Leibniz International Proceedings in Informatics 4, (2009), pp.157–168.
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 104. Anuj Dawar and Stephan Kreutzer, “On Datalog vs. LFP”, *Proc. 35th International Colloquium on Automata, Languages and Programming - ICALP’08*, Lecture Notes in Computer Science, (Springer-Verlag 2008), pp.160–171.
 105. Anuj Dawar and David Richerby, “The Power of Counting Logics on Restricted Classes of Finite Structures”, *CSL’07: Computer Science Logic*, Lecture Notes in Computer Science, (Springer-Verlag 2007), pp.84–98.
 106. Anuj Dawar, Martin Grohe and Stephan Kreutzer, “Locally Excluding a Minor”, *Proc. 22nd IEEE Symp. on Logic in Computer Science (LICS 2007)*, (IEEE Computer Society Press 2007), pp.270–279.
 107. Albert Atserias, Andrei Bulatov and Anuj Dawar, “Affine Systems of Equations and Counting Infinitary Logic”, *Proc. 34th International Colloquium on Automata, Languages and Programming - ICALP’07*, Lecture Notes in Computer Science, (Springer-Verlag 2007), pp.558–570.

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112. Paul Hunter and Anuj Dawar, “Complexity Bounds for Regular Games” *Proc. 30th International Symposium on Mathematical Foundations of Computer Science (MFCS 2005)*, Lecture Notes in Computer Science, (Springer-Verlag 2005), pp.495–506.
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115. Anuj Dawar, Phillipa Gardner and Giorgio Ghelli, “Adjunct Elimination Through Games in Static Ambient Logic”, *Proc. 24th Conf. on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2004)*, Lecture Notes in Computer Science, (Springer-Verlag 2004), pp.211–223.
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Book Reviews

128. *Finite Model Theory* (by H.-D. Ebbinghaus and J. Flum) reviewed in *Bull. London Mathematical Society*, **29**, 1997.
129. *Bounded Variable Logics and Counting: A Study in Finite Models* (by M. Otto) reviewed in *J. Symbolic Logic*, **63**, 1998.
130. *Descriptive Complexity* (by N. Immerman) reviewed in *Math. Reviews*, 2001f:68044.
131. *Logic and Complexity* (by R. Lassaigne and M. de Rougemont) reviewed in *Math. Reviews*, 2005k:68001.