

PUBLISHED PAPERS: ROBERT GOLDBLATT

1. A model-theoretic study of some systems containing S3. *Zeitschr. f. Math. Logik und Grundlagen d. Math.* **19**, 1973, 75-82.
2. Concerning the proper axiom for S4.04 and some related systems. *Notre Dame Journal of Formal Logic* **14**, 1973, 392-396.
3. A new extension of S4. *Notre Dame Journal of Formal Logic* **14**, 1973, 567-574.
4. A study of Z-Modal systems. *Notre Dame Journal of Formal Logic* **15**, 1974, 289-294.
5. Decidability of some extensions of J. *Zeitschr. f. Math. Logik und Grundlagen d. Math.* **20**, 1974, 203-206.
6. Semantic analysis of orthologic. *Journal of Philosophical Logic* **3**, 1974, 19-35.
7. First-order definability in modal logic. *The Journal of Symbolic Logic* **40**, 1975, 35-40.
8. Solution to a completeness problem of Lemmon and Scott. *Notre Dame Journal of Formal Logic* **16**, 1975, 405-408.
9. The Stone space of an ortholattice. *Bull. London Math. Soc.* **7**, 1975, 45-48.
10. (with Thomason, S.K.) Axiomatic classes in propositional modal logic. In *Algebra and Logic*, ed. by J.N. Crossley, Lecture Notes in Mathematics **450**, Springer-Verlag, 1975, 163-173.
11. Metamathematics of modal logic, Part I. *Reports on Mathematical Logic* **6**, 41-77, (Polish Scientific Publishers, Warsaw - Cracow, 1976).
12. Metamathematics of modal logic, Part II. *Reports on Mathematical Logic* **7**, 21-52, 1976.
13. Arithmetical necessity, provability and intuitionistic logic, *Theoria* **44**, 1978, 38-46.
14. Diodorean modality in Minkowski spacetime, *Studia Logica* **39**, 1980, 219-236.
15. "Locally at" as a topological quantifier-former, in *Aspects of Philosophical Logic*, U. Monnich (ed.), D. Reidel Publishing Co., 1981, 119-127.
16. Grothendieck topology as geometric modality, *Zeitschr. f. Math. Logik und Grundlagen d. Math.* **27**, 1981, 495-529.
17. The semantics of Hoare's iteration rule, *Studia Logica* **41**, 1982, 141-158.
18. Orthomodularity is not elementary, *The Journal of Symbolic Logic* **49**, 1984, 401-404.
19. An abstract setting for Henkin proofs, *Topoi* **3**, 1984, 37-41.
20. On the role of the Baire Category Theorem in the foundations of logic, *The Journal of Symbolic Logic* **50**, 1985, 412-422.
21. An algebraic study of well-foundedness, *Studia Logica* **44**, 1985, 423-437.

22. Varieties of complex algebras, *Annals of Pure and Applied Logic*, **44**, 1989, 173-242.
23. First-Order Spacetime Geometry. In *Logic, Methodology, and Philosophy of Science VIII*, J.E. Fenstad et al. (eds.), Studies in Logic, **126**, North-Holland Publishing Co., 1989, 303-316.
24. On closure under canonical embedding algebras. In *Algebraic Logic*, H. Andreka, J.D. Monk, and I. Nemeti (eds.), Colloquia Mathematica Societatis Janos Bolyai, **54**, North-Holland Publishing Co., Amsterdam, 1991, 217-229.
25. The McKinsey axiom is not canonical, *The Journal of Symbolic Logic*, **56**, 1991, 554-562.
26. Parallel action: concurrent dynamic logic with independent modalities, *Studia Logica*, **51**, 1992, 551-578.
27. Elementary generation and canonicity for varieties of Boolean algebras with operators, *Algebra Universalis*, **34**, 1995, 551-607.
28. Saturation and the Hennessy-Milner Property. In *Modal Logic and Process Algebra*, edited by Alban Ponse, Maarten de Rijke, and Yde Venema. CSLI Lecture Notes No. 53, Stanford: CSLI Publications, 1995, pp 107-129. Distributed by Cambridge University Press.
29. Modal Logics of Programs, *South African Computer Journal*, Number 13, April 1995, 14 - 44.
30. Boolean algebras with operators, *Encyclopaedia of Mathematics, Supplement I*, ed. M. Hazewinkel, Kluwer Academic Publishers, 1997, 143-144.
31. The functional lambda abstraction algebras form a variety. In D.S. Bridges et. al. eds., *Combinatorics, Complexity and Logic: Proceedings of DMTCS'96* (First Conference of the Centre for Discrete Mathematics and Theoretical Computer Science, Auckland, New Zealand, December 1996). Springer-Verlag Singapore, 1997, 226--243.
32. (with Hajnal Andreka and Istvan Nemeti) Relativised quantification: some canonical varieties of sequence-set algebras. *The Journal of Symbolic Logic*, **63**, 1998, 163-184.
33. Enlargements of functional algebras for the lambda calculus, *Theoretical Computer Science*, **198**, 1998, 177-200.
34. (with Antonino Salibra) A finite equational axiomatisation of the functional algebras for the lambda calculus. *Information and Computation*, **148**, 1999, 71-130.
35. Reflections on a proof of elementarity. In *JFAK. Essays Dedicated to Johan van Benthem on the Occasion of his 50th Birthday*, edited by J. Gerbrandy, M. Marx, M. de Rijke, and Y. Venema. Vossiuspers, Amsterdam University Press, 1999, www.illc.uva.nl/j50
36. Algebraic Polymodal Logic: A Survey. *Logic Journal of the IGPL*, **8**(4), July 2000, 393-450.
37. Quasi-Modal Equivalence of Canonical Structures, *The Journal of Symbolic Logic*, **66**, 2001, 497-508.
38. What is the Coalgebraic Analogue of Birkhoff's Variety Theorem? *Theoretical Computer Science*, **266**, 2001, 853-886.
39. Duality for Some Categories of Coalgebras, *Algebra Universalis*, **46**, 2001, 389-416.

40. A Calculus of Terms for Coalgebras of Polynomial Functors. In *Coalgebraic Methods in Computer Science: CMCS'01*, Electronic Notes in Theoretical Computer Science, volume 44, No. 1, 2001, 161-184.
41. Persistence and Atomic Generation for Varieties of Boolean Algebras with Operators, *Studia Logica*, **68**, 2001, 155-171.
42. Mathematical Modal Logic: A View of its Evolution. *Journal of Applied Logic*, vol **1**, nos. 5-6, 2003, pp 309-392.
43. Equational Logic of Polynomial Coalgebras, *Advances in Modal Logic*, volume 4, Philippe Balbiani, Nobu-Yuki Suzuki, Frank Wolter, and Michael Zakharyashev, editors. King's College Publications, King's College London, 2003, 149-184.
44. Observational Ultrapowers for Polynomial Coalgebras. *Annals of Pure and Applied Logic*, **123**, 2003, 235-290.
45. Enlargements of Polynomial Coalgebras. *Proceedings of the 7th and 8th Asian Logic Conferences*, R. Downey et al. (editors), World Scientific, 2003, 152-192.
46. Questions of Canonicity. In *Trends in Logic – 50 Years of Studia Logica*, Vincent F. Hendricks and Jacek Malinowski (eds), Kluwer Academic Publishers, 2003, pp 93 – 128.
47. A Compactification of Polynomial Coalgebras. *Topology Proceedings*, **27** no. 2, 2003, pp. 439–459.
48. (with Ian Hodkinson and Yde Venema) Erdos Graphs Resolve Fine's Canonicity Problem. *The Bulletin of Symbolic Logic*, vol 10, no. 2, 2004, pp 186–208.
49. (with Ian Hodkinson and Yde Venema) On Canonical Modal Logics That Are Not Elementarily Determined. *Logique et Analyse*, no. 181, 2003, 77–101. Published October 2004.
50. A Comonadic Account of Behavioural Covarieties, *Mathematical Structures in Computer Science*, vol. 15, no. 2, 2005, 243-269.
51. Covarieties of Coalgebras: Comonads and Coequations (with Ranald Clouston). In *Theoretical Aspects of Computing - ICTAC 2005*, Dang Van Hung and Martin Wirsing (eds.), Lecture Notes in Computer Science vol. 3722, pp 301-315. Springer, 2005.
52. Axiomatic Classes of Intuitionistic Models. *Journal of Universal Computer Science*, Vol. 11, Issue 12, pp 1945-1962, 2005.
53. Final Coalgebras and the Hennessy-Milner Property. *Annals of Pure and Applied Logic*, vol. 183, pp 77-93, March 2006.
54. (with Edwin D. Mares) An Alternative Semantics for Quantified Relevant Logic. *The Journal of Symbolic Logic*, vol. 71, no. 1, pp. 163-187, 2006.
55. Maps and Monads for Modal Frames. *Studia Logica*, vol. 83, 2006, 309-331.
56. Constant Modal Logics and Canonicity. In *Modality Matters. Twenty-Five Essays in Honour of Krister Segerberg*, edited by Henrik Lagerlund and Sten Lindström and Rysiek Sliwinski. Uppsala Philosophical Studies 53, Uppsala University, 2006, 149-157.
57. Mathematical Modal Logic: A View of its Evolution. In *Logic & the Modalities in the Twentieth Century*, volume 7 of the *Handbook of the History of Logic*, edited by Dov M.

- Gabbay and John Woods, Elsevier, 2006, 1-98. (Revised and expanded version of paper [42])
58. (with David Friggens) A Modal Proof Theory for Polynomial Coalgebras. *Theoretical Computer Science*, vol. 360, Issues 1-3, pp 1-22, 2006.
 59. A Kripke-Joyal Semantics for Noncommutative Logic in Quantales. In *Advances in Modal Logic, volume 6*, Guido Governatori, Ian Hodkinson and Yde Venema, editors. College Publications, London, 2006, 209-225.
 60. (with Edwin D. Mares) A General Semantics for Quantified Modal Logic. In *Advances in Modal Logic, volume 6*, Guido Governatori, Ian Hodkinson and Yde Venema, editors. College Publications, London, 2006, 227-246.
 61. (with Ian Hodkinson) The McKinsey-Lemmon Logic Is Barely Canonical. *Australasian Journal of Logic*, vol. 5, 2007, pp. 1-19.
 62. (with Ian Hodkinson) Commutativity of Quantifiers in Varying-Domain Kripke Models. In *Towards Mathematical Philosophy, Volume 28 of Trends in Logic*, edited by David Makinson, Jacek Malinowski and Heinrich Wansing, Springer, 2009, 9-30.
 63. Conservativity of Heyting Implication Over Relevant Quantification. *Review of Symbolic Logic*, vol. 2, no. 2, 2009, pp. 310- 341. doi:10.1017/S1755020309090194 .
 64. (with Michael Kane) An Admissible Semantics for Propositionally Quantified Relevant Logics. *Journal of Philosophical Logic*, vol. 39, no. 1, 2010, pp. 73–100. Published online 5 August 2009, doi:10.1007/s10992-009-9109-7.
 65. (with Galym Akishev) Monadic Bounded Algebras, *Studia Logica*, vol. 96, no. 1, October 2010, pp. 1-40. doi: 10.1007/s11225-010-9269-z.
 66. Functional Monadic Bounded Algebras, *Studia Logica*, vol. 96, no. 1, October 2010, pp. 41-48. doi: 10.1007/s11225-010-9271-5.
 67. Deduction Systems for Coalgebras Over Measurable Spaces. *Journal of Logic and Computation*, Vol. 20, Issue 5, October 2010, pp. 1069-1100. Published online December 12, 2008, doi: 10.1093/logcom/exn092.
 68. Cover Semantics for Quantified Lax Logic, *Journal of Logic and Computation*, vol. 21, Issue 6, December 2011, pp.1035-1063. Published online 11 August 2010; doi: 10.1093/logcom/exq029.
 69. Grishin Algebras and Cover Systems for Classical Bilinear Logic. *Studia Logica*, vol. 99, nos. 1-3, October 2011, pp. 203-227. Published online 31 August 2011, doi:10.1007/s11225-011-9360-0.
 70. Topological Proofs of Some Rasiowa-Sikorski Lemmas. *Studia Logica*, vol. 100, nos. 1-2, April 2012, pp. 175-191. doi: 10.1007/s11225-012-9374-2.
 71. (with Marcel Jackson) Well Structured Program Equivalence is Highly Undecidable. *ACM Transactions on Computational Logic*, Volume 13 Issue 3, Article 26, August 2012, 8 pages. doi: 10.1145/2287718.2287726.
 72. (with Tomasz Kowalski) The Power of a Propositional Constant. *Journal of Philosophical Logic*, Volume 43, Issue 1, February 2014, pp 133-152. doi:10.1007/s10992-012-9256-0.

73. Equivalent Beliefs in Dynamic Doxastic Logic. In *Krister Segerberg on Logic of Actions*, edited by Robert Trypuz, Springer, 2014, pp. 179–207. doi: 10.1007/978-94-007-7046-1_9
74. The Countable Henkin Principle. In *The Life and Work of Leon Henkin: Essays on His Contributions*, edited by Maria Manzano, Ildiko Sain and Enrique Alonso, Springer 2014, pp. 179-201. doi 10.1007/978-3-319-09719-0_13
75. Ultraproducts of Admissible Models for Quantified Modal Logic. In *Structural Analysis of Non-Classical Logics*, edited by Duen-Min Deng, Syraya Chin-Mu Yang and Hanti Lin, Springer 2015, pp. 17-36. doi 10.1007/978-3-662-48357-2_2
76. (with Matt Grice) Mereocompactness and Duality for Mereotopological Spaces. In *J. Michael Dunn on Information Based Logics*, edited by Katalin Bimbo, Springer, 2016, pp. 313-330. doi: 10.1007/978-3-319-29300-4_15
77. (with Ian Hodkinson) The Tangled Derivative Logic of the Real Line and Zero-Dimensional Spaces. In *Advances in Modal Logic, Volume 11*, Lev Beklemishev, Stéphane Demri and András Máté, editors. College Publications, 2016, 342- 361. www.aiml.net/volumes/volume11
78. (with Ian Hodkinson) Spatial logic of tangled closure operators and modal mu-calculus. *Annals of Pure and Applied Logic*, Volume 168, Issue 5, 1032-1090, May 2017, available online 21 November 2016, doi:10.1016/j.apal.2016.11.006
79. (with Ian Hodkinson) Tangled Closure Algebras. *Categories and General Algebraic Structures with Applications*, Volume 6 no. 2, available online 26 January 2017, www.cgasa.ir
80. (with Ian Hodkinson) The Finite Model Property for Logics with the Tangle Modality. *Studia Logica*, Volume 106, Issue 1, February 2018, available on-line 1 June 2017. doi: 10.1007/s11225-017-9732-1
81. Representing and Completing Lattices by Propositions of Cover Systems. In *Philosophical Logic: Current Trends in Asia*, edited by Syraya Chin-Mu Yang, Kok Yong Lee and Hiroakira Ono, Springer, 2017, pp. 1-18. https://doi.org/10.1007/978-981-10-6355-8_1
82. Canonical Extensions and Ultraproducts of Polarities. *Algebra Universalis*, Volume 79, Issue 4, 2018. Available online 8 October 2018. <https://doi.org/10.1007/s00012-018-0562-4>

Other Items

- Review of papers in Propositional Dynamic Logic. *The Journal of Symbolic Logic*, Volume 51, no. 1, March 1986, pp. 225-227.
- Cameo of a Consummate Computabilist. In *Computability and Complexity: Essays Dedicated to Rodney G. Downey on the Occasion of His 60th Birthday*, Adam Day et al. (Eds), Lecture Notes in Computer Science 10010, pp. 3-8, 2017. doi:10.1007/978-3-319-50062-1