

Bibliography

Moshe Y. Vardi
Department of Computer Science
Rice University P.O. Box 1892
Houston, TX 77251-1892

January 31, 2015

THESES

1. *Axiomatization of functional and join dependencies in the relational model*. M.Sc. Thesis, Dept. of Applied Math., The Weizmann Institute of Science, April 1980.
2. *The implication problem for data dependencies in the relational model*, Ph.D. Dissertation (in Hebrew), Dept. of Computer Science, The Hebrew University in Jerusalem, Sept. 1981.

BOOKS

1. Fagin, R., Halpern, J.Y., Moses, Y., Vardi, M.Y.: *Reasoning about Knowledge*, MIT Press, hardback edition – 1995, paperback edition – 2003.
2. Gruber, I., Ambler, J., Beckingham, K., Huston, P.J., Schnoebelen, A., Vardi, M.Y.: *Rice University Faculty Handbook*, Rice University, 1998.
3. Aspray, W., Mayadas, F., Vardi, M.Y.: *Globalization and Offshoring of Software*, ACM, 2006.
4. Grädel, E., Kolaitis, P.K., Libkin, L., Marx, M., Spencer, J., Vardi, M.Y., Venema, Y., Weinstein, S.: *Finite Model Theory and Its Applications*, Springer, 2007.

EDITED PUBLICATIONS

1. *Theoretical Aspects of Reasoning about Knowledge*, Proc. of the 2nd Conf. (TARK 1988), Morgan Kaufmann, 1988.
2. Special issue for 6th ACM Symp. on Principles of Database Systems, 1987, *J. Computer and System Sciences* 41:1&2(1990).
3. Special issue on Database Logic Programming. *J. Logic Programming* 10:3&4(1991).
4. Database Theory - ICDT'95, Proc. of the 5th Int'l Conf., with G. Gottlob, Springer-Verlag, Lecture Notes in Computer Science 893, 1995.
5. Special issue for 8th IEEE Symp. on Logic in Computer Science, 1993, *Information and Computation* 127:2(1996).
6. Special selection in logic in computer science, *Journal of Symbolic Logic*, 62:2(1997).
7. Computer-Aided Verification, Proc. of the 10th Int'l Conf., with Alan J. Hu, Springer-Verlag, Lecture Notes in Computer Science 1427, 1998.

8. Formal Techniques for Networked and Distributed Systems - FORTE 2002, Proc. 22nd IFIP WG 6.1 International Conference, with D.A. Peled, Springer-Verlag, Lecture Notes in Computer Science 2529, 2002.
9. Logic for Programming, Artificial Intelligence, and Reasoning - LPAR 2003, Proc. 10th Int'l Conference, with A. Voronkov, Springer-Verlag, Lecture Notes in Artificial Intelligence 2850, 2003.
10. Proc. 1st International Workshop on Strategic Reasoning, with F. Mogavero and A. Murano, Electronic Proceedings in Theoretical Computer Science 112, Rome, Italy, March 2013.
11. Proc. 2nd International Workshop on Strategic Reasoning, with F. Mogavero and A. Murano, Electronic Proceedings in Theoretical Computer Science 146, Grenoble, France, April 2014.

1 INVITED ARTICLES

Refereed:

1. Vardi, M.Y.: The implication and the finite implication problem for typed template dependencies. *J. Computer and System Sciences* 28(1984), pp. 3–28 (special issue for the 1st ACM Symp. on Principles of Database Systems, 1982).
2. Fagin, R., Kuper, G.M., Ullman, J.D., Vardi, M.Y.: Updating logical databases. *Advances in Computing Research* – vol. 3 (P. Kanellakis and F.P. Preparata, eds.), JAI Press, 1986, pp. 1–18.
3. Vardi, M.Y., Wolper, P.: Automata-theoretic techniques for modal logic of programs. *J. Computer and System Sciences* 32(1986), pp. 183–221 (special issue for the 16th ACM Symp. on Theory of Computing, 1984).
4. Vardi, M.Y.: Querying logical databases. *J. Computer and System Sciences* 33(1986), pp. 142–160 (special issue for the 4th ACM Symp. on Principles of Database Systems, 1985).
5. Sistla, A.P., Vardi, M.Y., Wolper, P.: The complementation problem for Büchi automata with applications to temporal logic. *Theoretical Computer Science* 49(1987), pp. 217–237 (special issue for the 12th Int’l Colloq. on Automata, Languages, and Programming, 1985).
6. Halpern, J.Y., Vardi, M.Y.: The complexity of reasoning about knowledge and time, I – lower bounds. *J. Computer and System Sciences* 38(1989), pp. 195–237 (special issue for the 18th ACM Symp. on Theory of Computing, 1986).
7. Kolaitis, P.G., Vardi, M.Y.: 0–1 laws and decision problems for fragments of second-order logic. *Information and Computation* 87(1990), pp. 302–339 (special issue for the 3rd IEEE Symp. on Logic in Computer Science, 1988).
8. Vardi, M.Y.: Verification of concurrent programs – the automata-theoretic framework. *Annals of Pure and Applied Logic* 51(1991), pp. 79–98 (special issue for the 2nd IEEE Symp. on Logic in Computer Science, 1987).
9. Kolaitis, P.G., Vardi, M.Y.: Infinitary logics and 0–1 laws. *Information and Computation* 98(1992), pp. 258–294 (special issue for the 5th IEEE Symp. on Logic in Computer Science, 1990).
10. Courcoubetis, C., Vardi, M.Y., Wolper, P., Yannakakis, M.: Memory Efficient Algorithms for the Verification of Temporal Properties, *Formal Methods in System Design* 1(1992), pp. 275–288 (special issue for Workshop on Computer-Aided Verification, June 1990).

11. Kuper, G.M., Vardi, M.Y.: On the complexity of queries in the logical data model. *Theoretical Computer Science* 116(1993), pp. 33–58 (special issue for the Int’l Conf. on Database Theory).
12. Ramakrishnan, R., Sagiv, Y., Ullman, J.D., Vardi, M.Y.: Logical query optimization by proof–tree transformation. *J. Computer and System Sciences* 47(1993), pp. 222–248 (special issue for the 8th ACM Symp. on Principles of Database Systems, 1989).
13. Kolaitis, P.G., Vardi, M.Y.: On the expressive power of Datalog – tools and a case study. *J. Computer and System Science* 51(1995), pp. 110–134. (special issue for the 9th ACM Symp. on Principles of Database Systems, 1990).
14. Abiteboul, S., Vardi, M.Y., Vianu, V.: Computing with infinitary logic. *Theoretical Computer Science* 149(1995), pp. 101–128 (special issue for 4th Int’l Conf. on Database Theory, 1992).
15. Chaudhuri, S., Vardi, M.Y.: On the equivalence of recursive and nonrecursive Datalog programs. *J. Computer and System Sciences* 54(1997), pp. 61–88. (special issue for the 11th ACM Symp. on Principles of Database Systems, 1992).
16. Fagin, R., Halpern, J.Y., Moses, Y., Vardi, M.Y.: Knowledge-based programs. *Distributed Computing* 10(1997), pp. 199–225 (special issue for the 14th ACM Symp. on Principles of Distributed Computing, 1995).
17. Fagin, R., Halpern, J.Y., Moses, Y., and Vardi, M.Y.: Common knowledge revisited, *Annals of Pure and Applied Logic* 96(1999), pp. 89–105. (preliminary version appeared in *Sixth Conf. on Theoretical Aspects of Rationality and Knowledge*, 1996).
18. Kolaitis, P.G., Vardi, M.Y.: Conjunctive-query containment and constraint satisfaction. *J. Computer and System Sciences* 61(2000), pp. 302–332 (special issue for 17th ACM Symp. on Principles of Database Systems, 1998).
19. Hardin, R.H., Kurshan, R.P., Shukla, S.K., Vardi, M.Y.: A new heuristic for bad cycle detection using BDDs. *Formal Methods in System Design* 18(2001), pp. 131–140 (special issue for the 9th Conference on Computer-Aided Verification, 1997).
20. Kupferman, O., Vardi, M.Y., Wolper, P.: Module checking. *Information and Computation* 164(2001), pp. 322–344 (special issue for the 8th Conference on Computer-Aided Verification, 1996).
21. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Rewriting of regular expressions and regular path queries. *J. Computer and System Sciences* 64(2002), pp. 443–465 (special issue for 18th ACM Symp. on Principles of Database Systems, 1999).

22. Etessami, K., Vardi, M.Y., Wilke, T.: First-order logic with two variables and unary temporal logic. *Information and Computation* 179(2002), pp. 279–295 (special issue for 12th IEEE Symp. on Logic in Computer Science, 1997).
23. Piterman, N., Vardi, M.Y.: From bidirectionality to alternation. *Theoretical Computer Science* 295(2003), pp. 295–321 (special issue for 26th Int’l Symp. on Mathematical Foundations of Computer Science, 2001).
24. Coarfa, C., Demopolous, D.D., San Miguel Aguirre, A., Subramanian, D., Vardi, M.Y.: Random 3-SAT – the plot thickens. *Constraints* 8(2003), pp. 243–261 (special issue for 6th Conf. on Principles and Practice of Constraint Programming, 2000).
25. Calvanese, d., De Giacomo, G., Vardi, M.Y.: Decidable containment of recursive Queries. *Theoretical Computer Science* 336(2005), pp. 33–56 (special issue for 9th Int’l Conf. on Database Theory, 2005).
26. Kupferman, O., Vardi, M.Y.: From Complementation to Certification. *Theoretical Computer Science* 345(2005), pp. 83–100 (special issue for 10th Int’l Conf. on Tools and Algorithms for the Construction and Analysis of Systems, 2004)
27. Friedgut, E., Kupferman, O., Vardi, M.Y.: Büchi complementation made tighter. *Int’l J. of Foundations of Computer Science*, 17:4(2006), pp. 851–867 (special issue for 2nd Int’l Conf. on Automated Technology for Verification and Analysis, 2004).
28. Vardi, M.Y.: Automata-theoretic techniques for temporal reasoning. In *Handbook of Modal Logic* (p. Blackburn et al., eds.), 2006, pp. 971–989.
29. Calvenese, D., De Giacomo, G., Lenzerini, M, Vardi, M.Y.: View-based query processing – on the relationship between rewriting, answering and losslessness. *Theoretical Computer Science* 371(2007), pp. 169–182 (special issue for 10th Int’l Conf. on Database Theory, 2005).
30. , Etessami, K., Kwiatkowska, M., Vardi, M.Y., Yannakakis, M.: Multi-objective Model Checking of Markov Decision Processes *Logical Methods in Computer Science* 4(4:8), 2008, pp. 1–21 (special issue for 13th Int’l Conf. on Tools and Algorithms for the Construction and Analysis of Systems).
31. Kupferman, O., Piterman, N., Vardi, M.Y.: From liveness to promptness. *Formal Methods in Systems Design* 34:2(2009), pp. 83–103 (special issue for 19th International Conference on Computer Aided Verification).
32. Plaku, E., Kavradi, L.E., Vardi, M.Y.: Hybrid systems: from verification to falsification by combining motion planning and discrete search. *Formal Methods in Systems Design* 34:2(2009), pp. 157–182 (special issue for 19th International Conference on Computer-Aided Verification).

33. Wiener, R., Kamhi, G., Vardi, M.Y.: Intelligate: an algorithm for learning Boolean functions for dynamic power reduction. *J. Low Power Electronics* 5(2009), pp. 106–112. (special issue for Proc. 18th Int’l Workshop on Integrated Circuit and System Design, Power and Timing Modeling, Optimization and Simulation).
34. Rozier, K.Y., Vardi, M.Y.: LTL Satisfiability Checking. *Int’l J. on Software Tools for Technology Transfer*, 12:2(2010), pp. 123–137. (special issue for 14th Workshop on Model Checking Software)
35. Kreiker, J., Terlecki, A., Vardi, M.Y., Wilhelm, R.: Modeling, Analysis, and Verification – The Formal Methods Manifesto. *Dagstuhl Manifestos Journal* 1(2011), pp. 21–40 (manifesto from Dagstuhl Perspectives Workshop 10482).
36. Kupferman, O., Pnueli, A., Vardi, M.Y.: Once and for all. *JCSS* 78:3(2012), 981–996. (special issue in commemoration of Amir Pnueli)
37. Cook, B., Koskinen, E., Vardi, M.Y.: Temporal property verification as a program analysis task. *Formal Methods in System Design* 41:1(2012), 66–82. (special issue for 23rd Int’l Conf. on Computer-Aided Verification).
38. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Simplifying schema mappings. *J. Computer and System Sciences* 79:6(2013), pp. 816–834 (special issue on Foundations of Data Management).
39. Fogarty, S., Kupferman, O., Wilke, T., Vardi, M.Y.: Unifying Büchi Complementation Constructions. *Logical Methods in Computer Science* 9(1), pp. 1–25, 2013. (special issue for the 20th Annual Conference on Computer Science Logic).
40. Calvanese, C., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: On simplification of schema mappings. *J. Comput. Syst. Sci.* 79(6): 816-834, 2013 (special issue on Foundations of Data Management).
41. Plaku, E., Kavvaki, L.E., Vardi, M.Y.: Falsification of LTL safety properties in hybrid systems. *Int’l J. on Software Tools for Technology Transfer* 15(4), pp. 305–320, 2013 (special issue for 15th Int’l Conf. on Tools and Algorithms for the Construction and Analysis of Systems).
42. Lustig, Y., Vardi, M.Y.: Synthesis from component libraries. *Int’l J. on Software Tools for Technology Transfer* 15(5-6), pp. 603–618, 2013 (special issue on Algorithmic Program Synthesis).
43. Lustig, Y., Nain, S., Vardi, M.Y.: Synthesis from Probabilistic Components. *Logic Methods in Computer Science* 10(2:17), pp. 1–24, 2014 (Special Issue for the 2011 Conference on Computer Science Logic).

1.1 Non-refereed:

1. Fagin, R., Vardi, M.Y.: The theory of data dependencies – an overview (invited paper). *Proc. 11th Int'l Colloq. on Automata, Languages, and Programming*, July 1984, Lecture Notes in Computer Science 172, Springer-Verlag, 1984, pp. 1–22.
2. Fagin, R., Vardi, M.Y.: The theory of data dependencies – a survey. In *Mathematics of Information Processing*, Proc. Symposia in Applied Mathematics – vol. 34, American Mathematical Society, 1986, pp. 19–71.
3. Vardi, M.Y.: Issues in logical databases. *Tutorials – Towards New Generation Databases*, 12th Int'l Conf. on Very Large Data Bases, Aug. 1986, pp. 102–127.
4. Vardi, M.Y.: Fundamentals of dependency theory. In *Trends in Theoretical Computer Science* (E. Börger, ed.), Computer Science Press, 1987, pp. 171–224.
5. Vardi, M.Y.: Automata theory for database theoreticians (invited paper). *Proc. 8th ACM Symp. on Principles of Database Systems*, March 1989, pp. 83–92.
6. Vardi, M.Y.: Unified Verification Theory, *Proc. Temporal Logic in Specification – 1987*, Lecture Notes in Computer Science 398, Springer-Verlag, 1989 pp. 202–212.
7. Halpern, J.Y., Vardi, M.Y.: Model checking vs. theorem proving – a manifesto. In *Artificial Intelligence and Mathematical Theory of Computation* (V. Lifschitz, ed.), Academic Press, 1991, pp. 151–176.
8. Kolaitis, P.G., Vardi, M.Y.: 0–1 laws for fragments of second-order logic - an overview. *Logic from Computer Science* (Proc. of Workshop, 1989), 1992, pp. 265–286.
9. Vardi, M.Y.: Automata theory for database theoreticians. In *Theoretical Studies in Computer Science* (J.D. Ullman, ed.), Academic Press, 1992, pp. 153–180.
10. Kolaitis, P.G., Vardi, M.Y.: Infinitary logic for computer science. *Proc. 19th Int'l Coll. on Automata, Languages, and Programming*, Lecture Notes in Computer Science 623, Springer-Verlag, 1992, pp. 450–473.
11. Vardi, M.Y.: Nontraditional applications of automata theory. In *Proc. Int'l Symp. on Theoretical Aspects of Computer Software*, Springer-Verlag, Lecture Notes in Computer Science 789, 1994, pp. 575–597.
12. Vardi, M.Y.: Alternating automata and program verification. In *Computer Science Today – Recent Trends and Developments*, Springer-Verlag, Lecture Notes in Computer Science 1000, 1995, pp. 471–485.

13. Vardi, M.Y.: An automata-theoretic approach to linear temporal logic. In *Logics for Concurrency: Structure versus Automata*, Springer-Verlag, Lecture Notes in Computer Science 1043, 1996, pp. 238–266.
14. Fagin, R., Halpern, J.Y., Moses, Y., Vardi, M.Y.: Common knowledge – now you have it, now you don’t. In *Intelligent Systems: a Semiotics Perspective*, Proc. of the 1996 Int’l Multidisciplinary Conf., Vol. I, October 1996, pp. 177–183.
15. Vardi, M.Y.: Why is modal logic so robustly decidable? In *Descriptive Complexity and Finite Models*, DIMACS Series in Discrete Mathematics and Theoretical Computer Science, vol. 31, AMS, 1997, pp. 149–184.
16. Vardi, M.Y.: Alternating automata – unifying truth and validity checking for temporal logics. *Proc. 14th Int’l Conf. on Automated Deduction (CADE-14)*, W. McCune (Ed.), Springer-Verlag, Lecture Notes in Artificial Intelligence 1249, July 1997, pp. 191–206.
17. Vardi, M.Y.: Verification of open systems. *Proc. 17th Conf. on Foundations of Software Technology and Theoretical Computer Science*, S. Ramesh and G. Sivakumar (eds.), Springer-Verlag, Lecture Notes in Computer Science 1346, December 1997, pp. 250–266.
18. Vardi, M.Y.: Linear vs. branching time: a complexity-theoretic perspective. Proc. 13th IEEE Symp. on Logic in Computer Science, June 1998, pp. 394–405.
19. Vardi, M.Y.: Sometimes and not never re-revisited: on branching vs. linear time. *Proc. 9th Int’l Conf. on Concurrency Theory*, D. Sangiorgi and R. de Simone (eds.), Springer-Verlag, Lecture Notes in Computer Science 1466, September 1998, pp. 1–17.
20. Kupferman, O., Vardi, M.Y., Modular model checking. *Proc. Compositionality Workshop*, W.P. de Roever (ed.), Springer-Verlag, Lecture Notes in Computer Science – vol. 1536, 1998, pp. 381–401.
21. Vardi, M.Y.: The truth, the whole truth, and nothing but the truth. In *Logic in Action 1998*, Institute for Logic, Language, and Computation, University of Amsterdam, April 1999, pp. 33–34.
22. Vardi, M.Y.: Probabilistic linear-time model checking: an overview of the automata-theoretic approach. *Proc. 5th Int’l Workshop on Formal Methods for Real-Time and Probabilistic Systems* (J.P. Katoen, ed.), Springer-Verlag, Lecture Notes in Computer Science 1601, 1999, pp. 265–276.
23. Vardi, M.Y.: Constraints satisfaction and database theory—a tutorial. Proc. of 19th ACM Symp. on Principles of Database Systems, 2000, pp. 76–85.

24. Kolaitis, P.G., Vardi, M.Y.: 0-1 laws for fragments of second-order logic—a survey. *Proc. 25th Int'l Symposium on Mathematical Foundations of Computer Science (MFCS'00)* (M. Nielsen and B. Rován, eds.), Lecture Notes in Computer Science 1893, 2000, pp. 84–98.
25. Vardi, M.Y.: Branching vs. linear time: final showdown. *Proc. 7th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems (TACAS'01)* (T. Margaria and W. Yi, eds.), Springer-Verlag, Lecture Notes in Computer Science 2031, pp. 1–22.
26. Kennedy, K., Vardi, M.Y.: A Rice University perspective on software engineering licensing. *Comm. ACM* 45:11(2002), pp. 94–95.
27. Vardi, M.Y.: Logic and automata: a match made in heaven. *Proc. 30th Int'l Colloq. on Automata, Languages and Programming*, 2003, pp. 64–65.
28. Vardi, M.Y.: Automated verification – graphs, logic, and automata. *Proc. 18th Int'l Joint Conf. on Artificial Intelligence*, 2003, pp. 1603–1606.
29. Fagin, R., Halpern, J.Y., Moses, Y., and Vardi, M.Y.: Common knowledge revisited, In *Knowledge Contributors* (V.F. Henricks, K.F. Jorgensen, and S.A. Pedersen, eds.), Kluwer, 2003, pp. 87–104.
30. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Reasoning on Regular Path Queries. *SIGMOD Record* 32:4(2003), pp. 83–92.
31. Kupferman, O., Piterman, N., Vardi, M.Y.: Fair equivalence relations. In *Verification: Theory and Practice* (N. Dershowitz, ed.), Lecture Notes in Computer Science 2772, 2004, pp. 702–732.
32. Vardi, M.Y.: Model checking for database theoreticians. *Proc. 10th Int'l Conf. on Database Theory*, Lecture Notes in Computer Science – 3363, Springer-Verlag, January 2005, pp. 1–16.
33. Kupferman, O., Vardi, M.Y.: Verification of open systems. In *Interactive Computation – The New Paradigm* (D. Goldin, S.A. Smolka, and P. Wegner, eds.), Springer, 2006, pp. 97–117.
34. Vardi, M.Y.: Automata- and logic-based systems design. In *Proof Technology and Computation* (H. Schwichtenberg and K. Spies, eds.), Nato Science Press, 2006, pp. 417–444.
35. Vardi, M.Y.: Automata-theoretic model checking revisited, *Proc. 7th Int'l Conf. on Verification, Model Checking, and Abstract Interpretation*, Lecture Notes in Computer Science 4349, 2007, pp. 137–150.

36. Vardi, M.Y.: The Büchi complementation saga. *Proc. 24th Symp. on Theoretical Aspects of Computer Science*, Lecture Notes in Computer Science 4393, Springer, 2007, pp. 12–22.
37. Vardi, M.Y.: Formal techniques for SystemC verification. *Proc. 44th ACM/IEEE Design Automation Conference*, 2007, pp. 188–192.
38. Vardi, M.Y.: Linear-time model checking – automata theory in practice. *Proc. 12th International Conference on Implementation and Applications of Automata*, Lecture Notes in Computer Science 4783, pp. 5–10, Springer, 2007.
39. Nain, S., Vardi, M.Y.: Branching vs. linear time – semantical perspective. *Proc. 5th Int’l Symp. on Automated Technology for Verification and Analysis*, Lecture Notes in Computer Science 4762, pp. 19–34, Springer, 2007.
40. Vardi, M.Y., Wilke, T.: Automata – from logic to algorithms. *Logic and Automata – History and Perspectives* (J. Flum, E. Grädel, and T. Wilke, eds.), Amsterdam University Press, 2007, pp. 629–736.
41. Vardi, M.Y.: From monadic logic to PSL. *Pillars of Computer Science*, Lecture Notes in Computer Science 4800, pp. 656–681, Springer, 2008.
42. Vardi, M.Y.: From Church and Prior to PSL. *25MC Festschrift*, Lecture Notes in Computer Science 5000, pp. 150–171, Springer, 2008.
43. Kolaitis, P.G., Vardi, M.Y.: A logical approach to constraint satisfaction. In *Complexity of Constraints*, Lecture Notes in Computer Science 5250, pp. 125–155, Springer, 2008.
44. Vardi, M.Y.: CACM—past, present, and future. *Commun. ACM* 51(1), pp. 44–48, 2008.
45. Vardi, M.Y.: From philosophical to industrial logics. *Proc. 3rd Indian Conference on Logic and Its Applications*, Lecture Notes in AI 5378, Springer, pp. 89–115, 2009.
46. Aspray, W., Mayadas, F., Vardi, M.Y.: Globalization and offshoring of software. In *The Innovation Imperative* (G. Marklund, N.S. Vonortas, and C.W. Weisner, eds.), Elgar Publishing, pp. 24–49, 2009.
47. Kupferman, O., Piterman, N., Vardi, M.Y.,: An Automata-Theoretic Approach to Infinite-State Systems. *Time for Verification, Essays in Memory of Amir Pnueli*, Lecture Notes in Computer Science 6200, Springer, pp. 202–259, 2010.
48. Kreiker, J., Tarlecki, A., Vardi, M.Y., Wilhelm, R.: Modeling, Analysis, and Verification - The Formal Methods Manifesto 2010, *Dagstuhl Manifestos* 1:1001 (2011), pp. 21–40, Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik,

49. Fraser, S., Baresi, L., Cleland-Huang, J., Furia, C.A., Gonthier, G., Inverardi, P., Vardi, M.Y.: Publication culture in software engineering (panel). *Proc. 9th Joint Meeting of European Software Engineering Conf. and ACM SIGSOFT Symposium on the Foundations of Software Engineering*, pp. 19–23, 2013.
50. Abarbanel, Y., Singerman, E., Vardi, M.Y.: Validation of SoC Firmware-Hardware Flows: Challenges and Solution Directions. *Proc. 51st Design Automation Conference*, pp. 1–4, 2014.
51. Vardi, M.Y.: From Löwenheim to PSL and SVA. In *Language, Culture, Computation*, Lecture Notes in Computer Science 8001, pp. 78–102, 2014.

REFEREED ARTICLES

Published:

1. Beeri, C., Vardi, M.Y.: On the properties of join dependencies. *Advances in Databases – Vol. 1* (H. Gallaire, J. Minker, and J.M. Nicolas, eds.), Plenum Press, 1981, pp. 25–72.
2. Vardi, M.Y.: The decision problem for database dependencies. *Information Processing Letters* 12(1981), pp. 251–254.
3. Fagin, R., Vardi, M.Y.: Armstrong databases for functional and inclusion dependencies. *Information Processing Letters* 16(1983), pp. 13–20.
4. Vardi, M.Y.: Inferring multivalued dependencies from functional and join dependencies. *Acta Informatica* 19(1983), pp. 305–324.
5. Beeri, C., Vardi, M.Y.: Formal systems for tuple and equality generating dependencies. *SIAM J. on Computing* 13(1984), pp. 76–98.
6. Vardi, M.Y.: The implication and the finite implication problem for typed template dependencies. *J. Computer and System Sciences* 28(1984), pp. 3–28 (special issue for the 1st ACM Symp. on Principles of Database Systems, Los Angeles, March 1982).
7. Maier, D., Ullman, J.D., Vardi, M.Y.: On the foundations of the universal relation model. *ACM Trans. on Database Systems* 9(1984), pp. 283–308.
8. Vardi, M.Y.: A note on lossless database decompositions. *Information Processing Letters* 18(1984), pp. 257–260.
9. Beeri, C., Vardi, M.Y.: A proof procedure for data dependencies. *J. ACM* 31(1984), pp. 718–741.

10. Beeri, C., Vardi, M.Y.: On acyclic database decompositions. *Information and Control* 6(1984), pp. 75–84.
11. Chandra, A.K., Vardi, M.Y.: The implication problem for functional and inclusion dependencies is undecidable. *SIAM J. Computing* 14(1985), pp. 671–677.
12. Beeri, C., Vardi, M.Y.: Formal systems for join dependencies. *Theoretical Computer Science* 38(1985), pp. 99–116.
13. Graham, M., Mendelzon, A.O., Vardi, M.Y.: Notions of dependency satisfaction. *J. ACM* 33(1986), pp. 105–129.
14. Fagin, R., Kuper, G.M., Ullman, J.D., Vardi, M.Y.: Updating logical databases. *Advances in Computing Research* – vol. 3 (P. Kanellakis and F.P. Preparata, eds.), JAI Press, 1986, pp. 1–18.
15. Vardi, M.Y., Wolper, P.: Automata-theoretic techniques for modal logic of programs. *J. Computer and System Sciences* 32(1986), pp. 183–221 (special issue for the 16th ACM Symp. on Theory of Computing, 1984).
16. Makowsky, J.A., Vardi, M.Y.: On the expressive power of data dependencies. *Acta Informatica*, 23(1986), pp. 231–244.
17. Vardi, M.Y.: Querying logical databases. *J. Computer and System Sciences* 33(1986), pp. 142–160 (special issue for the 4th ACM Symp. on Principles of Database Systems, 1985).
18. Sistla, A.P., Vardi, M.Y., Wolper, P.: The complementation problem for Büchi automata with applications to temporal logic. *Theoretical Computer Science* 49(1987), pp. 217–237 (special issue for the 12th Int’l Colloq. on Automata, Languages, and Programming, 1985).
19. Vardi, M.Y.: The universal-relation data model for logical independence. *IEEE Software* 5(1988), pp. 80–85.
20. Halpern, J.Y., Vardi, M.Y.: The complexity of reasoning about knowledge and time, I – lower bounds. *J. Computer and System Sciences* 38(1989), pp. 195–237 (special issue for the 18th ACM Symp. on Theory of Computing, 1986).
21. Vardi, M.Y.: A note on the reduction of two-way automata to one-way automata. *Information Processing Letters* 30(1989), pp. 261–264.
22. Kanellakis, P.C., Cosmadakis, S.S., Vardi, M.Y.: Polynomial-time implication problems for Unary inclusion dependencies. *J. ACM* 37(1990), pp. 15–46.
23. Vardi, M.Y.: Endmarkers can make a difference. *Information Processing Letters* 35(1990), pp. 145–148.

24. Kolaitis, P.G., Vardi, M.Y.: 0–1 laws and decision problems for fragments of second-order logic. *Information and Computation* 87(1990), pp. 302–339 (special issue for the 3rd IEEE Symp. on Logic in Computer Science, 1988).
25. Vardi, M.Y.: Verification of concurrent programs – the automata-theoretic framework. *Annals of Pure and Applied Logic* 51(1991), pp. 79–98 (special issue for the 2nd IEEE Symp. on Logic in Computer Science, 1987).
26. Fagin, R., Halpern, J.Y., Vardi, M.Y.: A model-theoretic analysis of knowledge. *J. ACM* 38(1991), pp. 382–428.
27. Fagin, R., Halpern, J.Y., Vardi, M.Y.: What can machines know? On the properties of knowledge in distributed systems. *J. ACM* 39(1992), pp. 328–276.
28. Kolaitis, P.G., Vardi, M.Y.: Infinitary logics and 0–1 laws. *Information and Computation* 98(1992), pp. 258–294 (special issue for the 5th IEEE Symp. on Logic in Computer Science, 1990).
29. Fagin, R., Halpern, J.Y., Vardi, M.Y.: What is an inference rule? *J. Symbolic Logic* 57(1992), pp. 1018–1045.
30. Kuper, G.M., Vardi, M.Y.: On the complexity of queries in the logical data model. *Theoretical Computer Science* 116(1993), pp. 33–58 (special issue for the Int’l Conf. on Database Theory).
31. Ramakrishnan, R., Sagiv, Y., Ullman, J.D., Vardi, M.Y.: Logical query optimization by proof-tree transformation. *J. Computer and System Sciences* 47(1993), pp. 222–248 (special issue for the 8th ACM Symp. on Principles of Database Systems, 1989).
32. Gaifman, H., Mairson, H., Sagiv, Y., Vardi M.Y.: Undecidable optimization problems for database logic programs. *J. ACM* 40(1993), pp. 683–713.
33. Kuper, G.M., Vardi, M.Y.: The logical data model. *ACM Trans. on Database Systems* 18(1993), pp. 379–413.
34. Aiken, A. Kozen, D., Vardi, M.Y., Wimmers, E.: The complexity of set constraints. *Computer Science Logic – Proc. of the 1993 Conf.* (E. Börger, Y. Gurevich, and K. Meinke, eds.), Springer-Verlag, Lecture Notes in Computer Science 832, 1994, pp. 1–17.
35. Vardi, M.Y., Wolper, P.: Reasoning about infinite computations. *Information and Computation* 115(1994) pp. 1–37.
36. Kolaitis, P.G., Vardi, M.Y.: On the expressive power of Datalog – tools and a case study. *J. Computer and System Science* 51(1995), pp. 110–134. (special issue for Proc. 9th ACM Symp. on Principles of Database Systems, 1990).

37. Hillebrand, G.G., Kanellakis, P.C., Mairson, H.G., Vardi, M.Y.: Undecidable boundedness problems for Datalog programs. *J. Logic Programming* 25(1995), pp. 163–190.
38. Fagin, R., Stockmeyer, L., Vardi, M.Y.: On monadic NP vs. monadic co-NP. *Information and Computation* 120(1995), 78–92.
39. Abiteboul, S., Vardi, M.Y., Vianu, V.: Computing with infinitary logic. *Theoretical Computer Science* 149(1995), pp. 101–128 (special issue for 4th Int’l Conf. on Database Theory, 1992).
40. Fagin, R., Halpern, J.Y., Vardi, M.Y.: A nonstandard approach to the logical omniscience problem. *AI Journal* 79(1995), 203–240.
41. Vardi, M.Y.: Rank predicates vs. progress measures in concurrent-program verification. *Chicago Journal of Theoretical Computer Science* 1996, article 1 (<http://www.cs.uchicago.edu/publications/cjtcs/>).
42. Chaudhuri, S., Vardi, M.Y.: On the equivalence of recursive and nonrecursive Datalog programs. *J. Computer and System Sciences* 54(1997), 61–88. (special issue for the 11th ACM Symp. on Principles of Database Systems, 1992).
43. Abiteboul, S., Vardi, M.Y., Vianu, V.: Fixpoint logics, relational machines, and computational complexity. *J. ACM* 44(1997), 30–56.
44. Grädel, E., Kolaitis P.G., Vardi M.Y.: On the decision problem for two-variable first-order logic. *The Bulletin of Symbolic Logic* 3(1997), 53–69.
45. Fagin, R., Halpern, J.Y., Moses, Y., Vardi, M.Y.: Knowledge-based programs. *Distributed Computing* 10(1997), pp. 199–225 (special issue for the 14th ACM Symp. on Principles of Distributed Computing, 1995).
46. Kupferman, O., Vardi, M.Y.: Verification of fair transition systems. *Chicago J. of Theoretical Computer Science*, 1998, article 2 (<http://www.cs.uchicago.edu/publications/cjtcs/>).
47. Vardi, M.Y.: Computational model theory: an overview. *Logic J. of the IGPL* 6(1998), pp. 601–623.
48. Feder, T., Vardi, M.Y.: The computational structure of monotone monadic SNP and constraint satisfaction: a study through Datalog and group theory. *SIAM J. on Computing* 28(1998), pp. 57–104.
49. Kupferman, O., Vardi, M.Y.: Church’s problem revisited. *Bulletin of Symbolic Logic* 5(1999), pp. 245 – 263.

50. Fagin, R., J. Geanakoplos, Halpern, J.Y., Vardi, M.Y.: The hierarchical approach to modeling knowledge and common knowledge. *International Journal of Game Theory* 28(1999), pp. 331–365.
51. Fagin, R., Halpern, J.Y., Moses, Y., and Vardi, M.Y.: Common knowledge revisited, *Annals of Pure and Applied Logic* 96(1999), pp. 89–105. (preliminary version appeared in *Sixth Conf. on Theoretical Aspects of Rationality and Knowledge*, 1996).
52. Feigenbaum, J., Kannan, S., Vardi, M.Y., Viswanathan, M.: The complexity of problems on graphs represented as OBDDs. *Chicago J. of Theoretical Computer Science*, 1999, Article 5 (<http://www.cs.uchicago.edu/publications/cjtcs/>).
53. Kupferman, O., Vardi, M.Y.: An automata-theoretic approach to modular model checking. *ACM Transactions on Programming Languages and Systems* 22(2000), pp. 87–128.
54. Kupferman, O., Vardi, M.Y., Wolper, P.: An Automata-Theoretic Approach to Branching-Time Model Checking. *Journal of the ACM* 47(2000), pp. 312–360.
55. Kolaitis, P.G., Vardi, M.Y.: Conjunctive-query containment and constraint satisfaction. *J. Computer and System Sciences* 61(2000), pp. 302–332 (special issue for 17th ACM Symp. on Principles of Database Systems, 1998).
56. Hardin, R.H., Kurshan, R.P., Shukla, S.K., Vardi, M.T.: A new heuristic for bad cycle detection using BDDs. *Formal Methods in System Design* 18(2001), pp. 131–140 (special issue for the 9th Conference on Computer-Aided Verification, 1997).
57. Kupferman, O., Vardi, M.Y., Wolper, P.: Module checking. *Information and Computation* 164(2001), pp. 322–344 (special issue for the 8th Conference on Computer-Aided Verification, 1996).
58. Halpern, J.Y., Harper, R., Immerman, N., Kolaitis, P.G., Vardi, M.Y., Vianu, V.: On the unusual effectiveness of logic in computer science. *Bulletin of Symbolic Logic* 7:2(2001), pp. 213–236.
59. Kupferman, O., Vardi, M.Y.: Model checking of safety properties. *Formal methods in System Design*, 19:3(2001), pp. 291–314.
60. Kesten, Y., Pnueli, A., Vardi, M.Y.: Verification by augmented abstraction: the automata-theoretic view. *J. of Computer and System Sciences* 62(2001), pp. 668–690.
61. Kupferman, O., Vardi, M.Y.: Weak alternating automata are not that weak. *ACM Trans. on Computational Logic* 2(2001), pp. 408–429.

62. Harel, D., Kupferman, O., Vardi, M.Y.: On the complexity of verifying concurrent transition systems. *Information and Computation* 173(2002), pp. 143–161
63. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Rewriting of regular expressions and regular path queries. *J. Computer and System Sciences* 64(2002), pp. 443–465.
64. Fisler, K., Vardi, M.Y.: Bisimulation minimization and symbolic model checking. *Formal Methods in System Design* 21(2002), pp. 39–78.
65. Peled, D., Vardi, M.Y., Yannakakis, M.: Black Box Checking. *J. Automata, Languages and Combinatorics* 7(2002), pp. 225–246.
66. Etessami, K., Vardi, M.Y., Wilke, T.: First-order logic with two variables and unary temporal logic. *Information and Computation* 179(2002), pp. 279–295.
67. Piterman, N., Vardi, M.Y.: From bidirectionality to alternation. *Theoretical Computer Science* 295(2003), pp. 295–321.
68. Kupferman, O., Vardi, M.Y.: Vacuity detection in temporal model checking. *Software Tools for Technology Transfer* 4(2003), pp. 224–233.
69. Halpern, J.Y., van der Meyden, R., Vardi, M.Y.: Complete axiomatizations for reasoning about knowledge and time. *SIAM J. on Computing* 33(2004), pp. 674–703.
70. Kupferman, O., Vardi, M.Y.: From linear time to branching time. *ACM Trans. Comput. Log.* 6(2005), pp. 273–294.
71. Calvanese, d., De Giacomo, G., Vardi, M.Y.: Decidable containment of recursive Queries. *Theor. Comput. Sci.* 336(2005), pp. 33–56 (special issue for 9th Int’l Conf. on Database Theory, 2005).
72. Kupferman, O., Vardi, M.Y.: From Complementation to Certification. *Theoretical Computer Science* 345(2005), pp. 83–100 (special issue for 10th Int’l Conf. on Tools and Algorithms for the Construction and Analysis of Systems, 2004)
73. Pan, G., Vardi, M.Y.: Symbolic techniques in satisfiability solving. *J. of Automated Reasoning* 35(2005), pp. 25–50.
74. Kupferman, O., Safra, S., Vardi, M.Y.: Relating word and tree automata. *Annals of Pure and Applied Logic* 138(2006), pp. 126–146.
75. Demopoulos, D., Vardi, M.Y.: The phase transition in the random HornSAT problem. In *Computational Complexity and Statistical Physics* (A. Percus, G. Istrate, and C. Moore, eds.), Oxford Univ. Press, 2006, pp. 195–220.

76. Pan, G., Sattler, U., Vardi, M.Y.: BDD-based decision procedures for the modal logic K. *J. of Applied Non-Classical Logics* 16:1-2(2006), pp. 169–208.
77. Friedgut, E., Kupferman, O., Vardi, M.Y.: Büchi complementation made tighter. *Int'l J. of Foundations of Computer Science*, 17:4(2006), pp. 851–867 (special issue for 2nd Int'l Conf. on Automated Technology for Verification and Analysis, 2004).
78. Chockler, H., Kupferman, O., Vardi, M.Y.: Coverage metrics for formal verification. *J. on Software Tools For Technology Transfer* 8:4-5(2006), pp. 373–386.
79. Chockler, H., Kupferman, O., Vardi, M.Y.: Coverage metrics for temporal logic model checking. *Formal Methods in System Design* 28(2006), pp. 189–212.
80. Osherson, D., Vardi, M.Y.: Aggregating disparate estimates of chance. *Games and Economic Behavior*, 56:1(2006), pp. 148–173.
81. Calvenese, D., De Giacomo, G., Lenzerini, M, Vardi, M.Y.: View-based query processing – on the relationship between rewriting, answering and losslessness. *Theoretical Computer Science* 371(2007), pp. 169–182 (special issue for 10th Int'l Conf. on Database Theory, 2005).
82. Sebastiani, R., Singerman, E., Tonetta, S., Vardi, M.Y.: GSTE Is Partitioned Model Checking. *Formal Methods in System Design* 31(2007), pp. 177–196.
83. Pistore, M., and Vardi, M.Y.: The Planning Spectrum - One, Two, Three, Infinity. *J. AI Research* 30(2007), pp. 101–132.
84. Bonatti, P.A., Lutz, C., Murano, A., Vardi, M.Y.: The Complexity of Enriched Mu-Calculi. *Logical Methods in Computer Science* 4:3:11(2008), pp. 1–27.
85. , Etessami, K., Kwiatkowska, M., Vardi, M.Y., Yannakakis, M.: Multi-objective Model Checking of Markov Decision Processes *Logical Methods in Computer Science* 4(4:8), 2008, pp. 121 (special issue for 13th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems).
86. Kupferman, O., Piterman, N., Vardi, M.Y.: From liveness to promptness. *Formal Methods in Systems Design* 34:2(2009), pp. 83–103 (special issue for 19th International Conference on Computer Aided Verification).
87. Plaku, E., Kavradi, L.E., Vardi, M.Y.: Hybrid systems: from verification to falsification by combining motion planning and discrete search. *Formal Methods in Systems Design* 34:2(2009), pp. 157–182 (special issue for 19th International Conference on Computer Aided Verification).

88. Wiener, R., Kamhi, G., Vardi, M.Y.: Intelligate: an algorithm for learning Boolean functions for dynamic power reduction. *J. Low Power Electronics* 5(2009), pp. 106–112. (special issue for Proc. 18th Int’l Workshop on Integrated Circuit and System Design, Power and Timing Modeling, Optimization and Simulation).
89. Plaku, E., Kavradi, L.E., Vardi, M.Y.: Motion Planning With Dynamics by a Synergistic Combination of layers of Planning, *IEEE Trans. Robotics*, 26:3(2010), pp. 469–482
90. Bordeaux, L., Katisrelos, G., Narodytska, N., Vardi, M.Y.: The Complexity of Integer Bound Propagation. *J. Artificial Intelligence Research* 40(2011), pp. 657–676
91. Bhatia, A., Maly, M.R., Kavradi, L.E., Vardi, M.Y.: Motion planning with complex goals. *IEEE Robotics and Automation Magazine*, pp. 55–64, 2011.
92. Sebastiani, R., Tonetta, S., Vardi M.Y.: Symbolic systems, explicit properties—on hybrid approaches for LTL symbolic model checking. *Int’l J. on Software Tools for Technology Transfer* 13:4(2011), pp. 319–0335.
93. Kupferman, O., Pnueli, A., Vardi, M.Y.: Once and for all. *JCSS* 78:3(2012), 981–996. (special issue in commemoration of Amir Pnueli)
94. Cook, B., Koskinen, E., Vardi, M.Y.: Temporal property verification as a program analysis task. *Formal Methods in System Design* 41:1(2012), 66–82 (special issue for 23rd Int’l Conf. on Computer-Aided Verification).
95. Fogarty, S., Vardi, M.Y.: Büchi complementation and size-change termination. *Logical Methods in Computer Science* 8(1:13), pp. 1–33, 2012.
96. Tabakov, D., Rozier, K.R., Vardi, M.Y.: Optimized temporal monitors for SystemC. *Formal Methods in System Design* 41(3), pp. 236–268, 2012.
97. Calvanese, D., De Giacomo, G., Lenzerini, M., and Vardi, M.Y.: Query Processing under GLAV Mappings for Relational and Graph Databases. *Proceedings of the VLDB Endowment*, 6:2(2012), pp. 61–72.
98. Aminoff, B., Murano, A., Vardi, M.Y.: Pushdown module checking with imperfect information. *Information and Computation* 223(2013), pp. 1–17.
99. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Simplifying schema mappings. *J. Computer and System Sciences* 79:6(2013), pp. 816–834 (special issue on Foundations of Data Management).
100. Fogarty, S., Kupferman, O., Wilke, T., Vardi, M.Y.: Unifying Büchi Complementation Constructions. *Logical Methods in Computer Science* 9(1), pp. 1–25, 2013 (special issue for the 20th Annual Conference on Computer Science Logic).

101. Plaku, E., Kavraci, L.E., Vardi, M.Y.: Falsification of LTL safety properties in hybrid systems. *Int'l J. on Software Tools for Technology Transfer* 15(4), pp. 305–320, 2013 (special issue for 15th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems).
102. Lustig, Y., Vardi, M.Y.: Synthesis from component libraries. *Int'l J. on Software Tools for Technology Transfer* 15(5-6), pp. 603–618, 2013 (special issue on Algorithmic Program Synthesis).
103. Lustig, Y., Nain, S., Vardi, M.Y.: Synthesis from Probabilistic Components. *Logic Methods in Computer Science* 10(2:17), pp. 1–24, 2014 (special issue for the 2011 Conference on Computer Science Logic).
104. Murano, A., Mogavero, F., Perelli, G., Vardi, M.Y.: Reasoning About Strategies: On the Model-Checking Problem. *ACM Transactions on Computational Logic* 15(4), pp. 1–49, 2014.
105. Tsai, M.H., Fogarty, S., Vardi, M.Y., Tsay, Y.K.: State of Büchi complementation. *Logical Methods in Computer Science* 10(4:13), pp. 1–27, 2014.

PAPERS IN SCIENTIFIC MEETINGS

Published:

1. Beerli, C., Vardi, M.Y.: The implication problem for data dependencies. *Proc. 8th Int'l Colloq. on Automata, Languages, and Programming*, Acre, Lecture Notes in Computer Science 115, Springer-Verlag, 1981, pp. 73–85.
2. Vardi, M.Y.: Global decision problem for relational databases. *Proc. 22nd IEEE Symp. on Foundation of Computer Science*, Nashville, October 1981, pp. 198–202.
3. Vardi, M.Y.: The implication and the finite implication problems for typed template dependencies. *Proc. 1st ACM Symp. on Principles of Database Systems*, Los Angeles, March 1982, pp. 230–238.
4. Vardi, M.Y.: The complexity of relational query languages. *Proc. 14th ACM Symp. on Theory of Computing*, May 1982, pp. 137–146.
5. Vardi, M.Y.: On decomposition of relational databases. *Proc. 23rd IEEE Symp. on Foundation of Computer Science*, Nov. 1982, pp. 176–187.
6. Maier, D., Ullman, J.D., Vardi, M.Y.: The revenge of the JD. *Proc. 2nd ACM Symp. on Principles of Database Systems*, Atlanta, March 1983, pp. 279–287.

7. Fagin, R., Ullman, J.D., Vardi, M.Y.: On the semantics of updates in databases. *Proc. 2nd ACM Symp. on Principles of Database Systems*, Atlanta, March 1983, pp. 352–365.
8. Kanellakis, P.C., Cosmadakis, S.S., Vardi, M.Y.: Unary inclusion dependencies have polynomial time inference problems. *Proc. 15th ACM Symp. on Theory of Computing*, Boston, April 1983, pp. 264–277.
9. Vardi, M.Y., Wolper, P.L.: Yet another process logic. *Proc. Workshop on Logics of Programs*, Pittsburgh, June 1983, Springer-Verlag, Lecture Notes in Computer Science 164, pp. 501–512.
10. Wolper, P.L., Vardi, M.Y., Sistla, A.P.: Reasoning about infinite computation paths. *Proc. 24th IEEE Symp. on Foundation of Computer Science*, Tucson, Nov. 1983, pp. 185–194.
11. Kuper, G.M., Vardi, M.Y.: A new approach to database logic. *Proc. 3rd ACM Symp. on Principles of Database Systems*, Waterloo, April 1984, pp. 86–96.
12. Kuper, G.M., Ullman, J.D., Vardi, M.Y.: On the equivalence of logical databases. *Proc. 3rd ACM Symp. on Principles of Database Systems*, Waterloo, April 1984, pp. 221–228.
13. Graham, M.H., Vardi, M.Y.: On the complexity and axiomatizability of consistent database states. *Proc. 3rd ACM Symp. on Principles of Database Systems*, Waterloo, April 1984, pp. 281–289.
14. Vardi, M.Y., Wolper, P.L.: Automata-theoretic techniques for modal logics of programs. *Proc. 16th ACM Symp. on Theory of Computing*, Washington, April 1984, pp. 446–456.
15. Fagin, R., Vardi, M.Y.: The theory of data dependencies – an overview (invited paper). *Proc. 11th Int'l Colloq. on Automata, Languages, and Programming*, July 1984, Lecture Notes in Computer Science 172, Springer-Verlag, 1984, pp. 1–22.
16. Fagin, R., Halpern J.Y., Vardi, M.Y.: A model-theoretic analysis of knowledge. *Proc. 25th IEEE Symp. on Foundation of Computer Science*, Oct. 1984, pp. 268–278.
17. M.Y. Vardi: Querying logical databases. *Proc. 4th ACM Symp. on Principles of Database Systems*, Portland, March 1985, pp. 57–65.
18. Vardi, M.Y., Stockmeyer, L.: Improved upper and lower bounds for modal logics of programs. *Proc 17th ACM Symp. on Theory of Computing*, Providence, May 1985, pp. 240–251.

19. Fagin, R., Vardi, M.Y.: An internal semantics for modal logic. *Proc. 17th ACM Symp. on Theory of Computing*, Providence, May 1985, pp. 305–315.
20. Kuper, G.M., Vardi, M.Y.: On the expressive power of the logical data model. *Proc. ACM Conf. on Management of Data*, Austin, May 1985, pp. 180–189.
21. Vardi, M.Y.: The taming of converse – reasoning about two-way computations. *Proc. Workshop on Logics of Programs*, Brooklyn, June 1985, Springer-Verlag, Lecture Notes in Computer Science 193, pp. 413–424.
22. Sistla, A.P., Vardi, M.Y., Wolper, P.: The complementation problem for Büchi automata with applications to temporal logic. *Proc. 12th Int'l Colloq. on Automata, Languages, and Programming*, July 1985, Lecture Notes in Computer Science 194, Springer-Verlag, 1985, pp. 465–474.
23. Vardi, M.Y.: A model-theoretic analysis of monotonic knowledge. *Proc. 9th Int'l Joint Conf. on Artificial Intelligence*, Los Angeles, Aug. 1984, pp. 509–512.
24. Vardi, M.Y.: Automatic verification of probabilistic concurrent finite-state programs. *Proc. 26th IEEE Symp. on Foundations of Computer Science*, Portland, Oct. 1985, pp. 327–338.
25. Vardi, M.Y.: On epistemic logic and logical omniscience. *Proc. Conf. on Theoretical Aspects of Reasoning about Knowledge*, Monterey, March 1986, pp. 293–305.
26. Fagin, R., Vardi, M.Y.: Knowledge and implicit knowledge in a distributed environment. *Proc. Conf. on Theoretical Aspects of Reasoning about Knowledge*, Monterey, March 1986, pp. 187–206.
27. Vardi, M.Y.: On the integrity of databases with incomplete information. *Proc. 5th ACM Symp. on Principles of Database Systems*, Boston, March 1986, pp. 252–266.
28. Courcoubetis, C., Vardi, M.Y., Wolper, P.: Reasoning about fair concurrent programs. *Proc. 18th ACM Symp. on Theory of Computing*, Berkeley, May 1986, pp. 283–294.
29. Halpern, J.Y., Vardi, M.Y.: The complexity of reasoning about knowledge and time. *Proc. 18th ACM Symp. on Theory of Computing*, Berkeley, May 1986, pp. 304–315.
30. Vardi, M.Y., Wolper, P.: An automata-theoretic approach to automatic program verification. *Proc. IEEE Symp. on Logic in Computer Science*, Boston, June 1986, pp. 332–344.
31. Fagin, R., Halpern, J.Y., Vardi, M.Y.: What can machines know? On the epistemic properties of machines. *Proc. 5th Nat'l Conference on Artificial Intelligence (AAAI-86)*, Aug. 1986, pp. 428–434.

32. Vardi, M.Y.: Issues in logical databases. *Tutorials – Towards New Generation Databases*, 12th Int'l Conf. on Very Large Data Bases, Aug. 1986, pp. 102–127.
33. Kolaitis, P., Vardi, M.Y.: The decision problem for the probabilities of higher-order properties. *Proc. 19th ACM Symp. on Theory of Computing*, New York, May 1987, pp. 425–435.
34. Gaifman, H., Mairson, H., Sagiv, Y., Vardi M.Y.: Undecidable optimization problems for database logic programs. *Proc. 2nd IEEE Symp. on Logic in Computer Science*, Ithaca, June 1987, pp. 106–115.
35. Vardi, M.Y.: Verification of concurrent programs – the automata-theoretic framework. *Proc. 2nd IEEE Symp. on Logic in Computer Science*, Ithaca, June 1987, pp. 167–176.
36. Vardi, M.Y.: A temporal fixpoint calculus. *Proc. 15th ACM Symp. on Principles of Programming Languages*, January 1988, pp. 250–259.
37. Ullman, J.D., Vardi, M.Y.: On the complexity of ordering subgoals. *Proc. 7th ACM Symp. on Principles of Database Systems*, March 1988, pp. 74–81.
38. Vardi, M.Y.: Decidability and undecidability results for boundedness of linear recursive queries. *Proc. 7th ACM Symp. on Principles of Database Systems*, March 1988, pp. 341–351.
39. Halpern, J.Y., Vardi, M.Y.: Reasoning about knowledge and time in asynchronous systems. *Proc. 20th ACM Symp. on Theory of Computing*, May 1988, pp. 53–65.
40. Cosmadakis, S.S., Gaifman, H., Kanellakis, P.C., Vardi, M.Y.: Decidable optimization problems for database logic programs. *Proc. 20th ACM Symp. on Theory of Computing*, May 1988, pp. 477–490.
41. Kolaitis, P.G., Vardi, M.Y.: 0–1 laws and decision problems for fragments of second-order logic. *Proc. 3rd IEEE Symp. on Logic in Computer Science*, July 1988, pp. 2–11.
42. Kuper, G.M., Vardi, M.Y.: On the complexity of queries in the logical data model. *Proc. 2nd Int'l Conf. on Database Theory*, Lecture Notes in Computer Science – 326, Springer-Verlag, August 1988, pp. 267–280.
43. Vardi, M.Y.: Automata theory for database theoreticians (invited paper). *Proc. 8th ACM Symp. on Principles of Database Systems*, March 1989, pp. 83–92.
44. Sagiv, Y., Vardi, M.Y.: Safety of Datalog queries over infinite databases. *Proc. 8th ACM Symp. on Principles of Database Systems*, March 1989, pp. 160–171.

45. Ramakrishnan, R., Sagiv, Y., Ullman, J.D., Vardi, M.Y.: Proof-tree transformation theorems and their applications. *Proc. 8th ACM Symp. on Principles of Database Systems*, March 1989, pp. 171–181 (invited to a special issue of J. Computer and System Sciences).
46. Safra, S., Vardi, M.Y.: On ω -automata and temporal logic. *Proc. 21st ACM Symp. on Theory of Computing*, May 1989, pp. 127–137.
47. Vardi, M.Y.: On the complexity of epistemic reasoning. *Proc. 4th IEEE Symp. on Logic in Computer Science*, June 1989, pp. 243–252.
48. Vardi, M.Y.: Unified Verification Theory, *Proc. Temporal Logic in Specification – 1987*, Lecture Notes in Computer Science 398, Springer-Verlag, 1989 pp. 202–212.
49. Fagin, R., Halpern, J.Y., Vardi, M.Y.: A nonstandard approach to the logical omniscience problem. *Proc. 3rd Conf. on Theoretical Aspects of Reasoning about Knowledge*, March 1990, pp. 41–55.
50. Kolaitis, P.G., Vardi, M.Y.: On the expressive power of Datalog – tools and a case study. *Proc. 9th ACM Symp. on Principles of Database Systems*, March 1990, pp. 61–71 (invited to a special issue of J. Computer and System Sciences).
51. Kolaitis, P.G., Vardi, M.Y.: 0–1 laws for infinitary logics. *Proc. 5th IEEE Symp. on Logic in Computer Science*, June 1990, pp. 156–167. (invited to a special issue of Information and Computation).
52. Harel, D., Rosner, R., Vardi, M.Y.: On the power of bounded concurrency III: reasoning about programs. *Proc. 5th IEEE Symp. on Logic in Computer Science*, June 1990, pp. 478–488.
53. Vardi, M.Y.: Global optimization problems for database logic programs (invited paper). *Proc. 7th Int'l Conf. on Logic Programming*, June 1990, pp. 767–771.
54. Fagin, R., Halpern, J.Y., Vardi, M.Y.: What is an inference rule? *Proc. 5th Jerusalem Conference on Information Technology*, Oct. 1990, pp. 391–401.
55. Halpern, J.Y., Vardi, M.Y.: Model checking vs. theorem proving — a manifesto. *Proc. 2nd Int'l Conf. on Principles of Knowledge Representation and Reasoning*, April 1991, pp. 325–334.
56. Hillebrand, G.G., Kanellakis, P.C., Mairson, H.G., Vardi, M.Y.: Tools for Datalog boundedness. *Proc. 10th ACM Symp. on Principles of Database Systems*, May 1991, pp. 1–12.

57. Courcoubetis, C., Vardi, M.Y., Wolper, P., Yannakakis, M.: Memory-efficient algorithms for the verification of temporal properties. *Computer-Aided Verification '90*, DIMACS Series in Discrete Mathematics and Theoretical Computer Science, Vol. 3, AMS, 1991, pp. 207–218.
58. Fruhwirth, T., Shapiro, E., Vardi, M.Y., Yardeni, E.: Logic programs as types for logic programs. *Proc. 6th IEEE Symp. on Logic in Computer Science*, July 1991, pp. 300–309.
59. Kolaitis, P.G., Vardi, M.Y.: 0–1 laws for fragments of second-order logic - an overview. *Logic from Computer Science*, (Proc. of Workshop, 1989), 1992, pp. 265–286.
60. Fagin, R., J. Geanakopolos, Halpern, J.Y., Vardi, M.Y.: The expressive power of the hierarchical approach to modeling knowledge and common knowledge. *Proc. 4th Conf. on Theoretical Aspects of Reasoning about Knowledge*, March 1992, pp. 229–244.
61. Chaudhuri, S., Vardi, M.Y.: On the equivalence of recursive and nonrecursive Datalog programs. *11th ACM Symp. on Principles of Database Systems*, June 1992, pp. 55–66 (invited to a special issue of J. Computer and System Sciences).
62. Abiteboul, S., Vardi, M.Y., Vianu, V.: Fixpoint logics, relational machines, and computational complexity. *Proc. 7th Structure in Complexity Theory Conference*, June 1992, pp. 156–168.
63. Kolaitis, P.G., Vardi, M.Y.: Fixpoint logic vs. infinitary logic in finite-model theory. *Proc. 7th IEEE Symp. on Logic in Computer Science*, June 1992, pp. 46–57 (invited to a special issue of Annals of Pure and Applied Logic).
64. Kolaitis, P.G., Vardi, N.Y.: Infinitary logic for computer science (invited paper). *Proc. 19th Int'l Colloq. on Automata, Languages, and Programming*, Lecture Notes in Computer Science 623, Springer-Verlag, July 1992 pp. 450–473.
65. Abiteboul, S., Vardi, M.Y., Vianu, V.: Computing with infinitary logic. *Proc. 4th Int'l Conf. on Database Theory*, Springer-Verlag, Lecture Notes in Computer Science 646, Oct. 1992, pp. 113–123 (invited to a special issue of Theoretical Computer Science).
66. Alur, R., Henzinger, T., Vardi, M.Y.: Parametric real-time reasoning. *Proc. 25th ACM Symp. on Theory of Computing*, May 1993, pp. 592–601.
67. Feder, T.A., Vardi, M.Y.: Monotone monadic SNP and constraint satisfaction. *Proc. 25th ACM Symp. on Theory of Computing*, May 1993, pp. 612–622.

68. Chaudhuri, S., Vardi, M.Y.: Optimization of real conjunctive queries. *Proc. 12th ACM Symp. on Principles of Database Systems*, May 1993, pp. 59–70.
69. Fagin, R., Stockmeyer, L., Vardi, M.Y.: On monadic NP vs. monadic co-NP. *Proc. 8th IEEE Conf. on Structure in Complexity Theory*, May 1993, pp. 19–30.
70. Halpern, J.Y., Moses, Y., Vardi, M.Y.: Algorithmic knowledge. *Proc. 5th Conf. on Theoretical Aspects of Reasoning about Knowledge*, Morgan Kaufmann Publishers, March 1994, pp. 255–266.
71. Chaudhuri, S., Vardi, M.Y.: On the complexity of equivalence between recursive and nonrecursive Datalog programs. *Proc. 13th ACM Symp. on Principles of Database Systems*, May 1994, pp. 107–116.
72. Bernholtz, O., Vardi, M.Y., Wolper, P.: An Automata-Theoretic Approach to Branching-Time Model Checking. *Proc. Conf. on Computer-Aided verification (CAV'94)*, June 1994, Springer-Verlag, Lecture Notes in Computer Science 818, pp. 142–155.
73. Fagin, R., Halpern, J.Y., Moses, Y., Vardi, M.Y.: An operational semantics for knowledge bases. *Proc. 13th Nat'l Conf. on Artificial Intelligence (AAAI'94)*, Aug. 1994, pp. 1142–1147.
74. Vardi, M.Y.: On the complexity of bounded-variable queries. *Proc. 14th ACM Symp. on Principles of Database Systems*, June 1995, pp. 266–276.
75. Vardi, M.Y.: On the complexity of modular model checking. *Proc. 10th IEEE Symp. on Logic in Computer Science*, June 1995, pp. 101–111.
76. Vardi, M.Y.: An automata-theoretic approach to fair realizability and synthesis. *Proc. 7th Int'l Conf. on Computer-Aided Verification (CAV'95)*, Lecture Notes in Computer Science 939, Springer-Verlag, July 1995, pp. 267–278.
77. Fagin, R., Halpern, J.Y., Moses, Y., Vardi, M.Y.: Knowledge-based programs. *Proc. 14th ACM Symp. on Principles of Distributed Computing*, Aug. 1995, pp. 153–163 (invited to a special issue of Distributed Computing).
78. Gerth, R., Peled, D., Vardi, M.Y., Wolper, P.: A simple on-the-fly automatic verification for linear temporal logic. *Protocol Specification, Testing, and Verification*, Aug. 1995, P. Dembiski and M. Sredniawa, eds., Chapman & Hall, pp. 3–18.
79. Kupferman, O., Vardi, M.Y.: On the complexity of branching modular model checking. *Proc. 6th Int'l Conf. on Concurrency Theory (CONCUR'95)*, Aug. 1995, Springer-Verlag, Lecture Notes in Computer Science 962, pp. 408–422.

80. Fagin, R., Halpern, J.Y., Moses, Y., Vardi, M.Y.: Common knowledge revisited. *Proc. 6th Conf. on Theoretical Aspects of Rationality and Knowledge*, March 1996, pp. 283–298.
81. Vardi, M.Y.: Implementing knowledge-based programs. *Proc. 6th Conf. on Theoretical Aspects of Rationality and Knowledge*, March 1996, pp. 15–30.
82. Kupferman O., Safra, S., Vardi, M.Y.: Relating word and tree automata. *Proc. 11th IEEE Symp. on Logic in Computer Science*, July 1996, pp. 322–332.
83. Kolaitis, P.G., Vardi, M.Y.: On the expressive power of variable-confined logics. *Proc. 11th IEEE Symp. on Logic in Computer Science*, July 1996, pp. 348–359 (invited to a special issue of Information and Computation).
84. Kupferman, O., Vardi, M.Y.: Module checking. *Proc. 8th Int'l Conf. on Computer-Aided Verification (CAV'96)*, Lecture Notes in Computer Science 1102, Springer-Verlag, July 1996, pp. 75–86 (invited to a special issue of Formal Methods in System Design).
85. Kupferman, O., Vardi, M.Y.: Verification of fair transition systems. *Proc. 8th Int'l Conf. on Computer-Aided Verification (CAV'96)*, Lecture Notes in Computer Science 1102, Springer-Verlag, July 1996, pp. 372–382.
86. Henzinger, T.A., Kupferman, O., Vardi, M.Y.: A space-efficient on-the-fly algorithm for real-time model checking. *Proc. 7th Int'l Conf. on Concurrency Theory (CONCUR'96)*, Aug. 1996, Springer-Verlag, Lecture Notes in Computer Science 1119, pp. 514–529 (invited to a special issue of Theoretical Computer Science).
87. Fagin, R., Halpern, J.Y., Moses, Y., Vardi, M.Y.: Common knowledge – now you have it, now you don't. In *Intelligent Systems: a Semiotics Perspective*, Proc. of the 1996 Int'l Multidisciplinary Conf., Vol. I, October 1996, pp. 177–183.
88. Kupferman, O., Vardi, M.Y.: Weak alternating automata are not that weak. *Proc. 5th Israeli Symp. on Theory of Computing and Systems*, June 1997, pp. 147–158.
89. Kupferman, O., Vardi, M.Y.: Module checking revisited. *Proc. Conf. on Computer-Aided verification (CAV'97)*, June 1997, Springer-Verlag, Lecture Notes in Computer Science 1254, pp. 36–47.
90. Hardin, R.H., Kurshan, R.P., Shukla, S.K., Vardi, M.Y.: A new heuristic for bad cycle detection using BDDs. *Proc. Conf. on Computer-Aided verification (CAV'97)*, June 1997, Springer-Verlag, Lecture Notes in Computer Science 1254, pp. 268–278.
91. Immerman, N., Vardi, M.Y.: Model checking and transitive-closure logic. *Proc. Conf. on Computer-Aided verification (CAV'97)*, June 1997, Springer-Verlag, Lecture Notes in Computer Science 1254, pp. 291–302.

92. Etessami, K., Vardi, M.Y., Wilke, T.: First-order logic with two variables and unary temporal logic. *Proc. 12th IEEE Symp. on Logic in Computer Science*, June 1997, pp. 228–235.
93. Harel, D., Kupferman, O., Vardi, M.Y.: On the complexity of verifying concurrent transition systems. *Proc. 8th Int'l Conf. on Concurrency Theory (CONCUR'97)*, July 1997, Springer-Verlag, Lecture Notes in Computer Science 1243, pp. 258–272.
94. Vardi, M.Y.: Verification of open systems. *Proc. 17th Conf. on Foundations of Software Technology and Theoretical Computer Science*, S. Ramesh and G. Sivakumar (eds.), Springer-Verlag, Lecture Notes in Computer Science 1346, December 1997, pp. 250–266.
95. Feigenbaum, J., Kannan, S., Vardi, M.Y., Viswanathan, M.: Complexity of Problems on Graphs Represented by OBDDs, *Proc. 15th Symp. on Theoretical Aspects of Computer Science*, Springer-Verlag, Lecture Notes in Computer Science 1373, 1998, pp. 216–226.
96. Bruce, K.B., Kolaitis, P.G., Leivant, D.M., Vardi, M.Y.: Panel – Logic in the computer science curriculum. *Proc. 29th ACM Symp. on Computer Science Education*, 1998, pp. 376–377.
97. Kupferman, O., Vardi, M.Y.: Weak alternating automata and tree automata emptiness. *Proc. 30 ACM Symp. on Theory of Computing*, 1998, pp. 224–233.
98. Kolaitis, P.G., Vardi, M.Y.: Conjunctive-query containment and constraint satisfaction. *Proc. 17th ACM Symp. on Principles of Database Systems*, 1998, pp. 205–213.
99. Kupferman, O., Vardi, M.Y.: Relating linear and branching model checking. *Programming Concepts and Methods (PROCOMET'98)* (D. Gries and W.P. de Roever, eds.), Chapman and Hall, 1998, pp. 304–326.
100. Kupferman, O., Vardi, M.Y.: Freedom, weakness, and determinism: from linear-time to branching-time. *Proc. 13th IEEE Symposium on Logic in Computer Science*, pp. 81–92, June 1998.
101. Vardi, M.Y.: Reasoning about the past with two-way automata. *Proc. 25 Int'l Coll. on Automata, Languages, and Programming*, Lecture Notes in Computer Science 1443, Springer-Verlag, pp. 628–641, July 1998.
102. van der Meyden, R., Vardi, M.Y.: Synthesis from knowledge-based specifications. *Proc. 9th Int'l Conf. on Concurrency Theory*, D. Sangiorgi and R. de Simone (eds.), Springer-Verlag, Lecture Notes in Computer Science 1466, 1998, pp. 34–49.

103. Alur, R., Henzinger, T.A., Kupferman, O., Vardi, M.Y.: Alternating refinement relations. *Proc. 9th Int'l Conf. on Concurrency Theory*, D. Sangiorgi and R. de Simone (eds.), Springer-Verlag, Lecture Notes in Computer Science 1466, 1998, pp. 163–178.
104. Fisler, K., Vardi, M.Y.: Bisimulation minimization in an automata-theoretic verification framework. *Proc. 9th Int'l Conf. on Formal Methods in Computer-Aided Design*, G. Gopalakrishnan and P. Windley (eds.), Springer-Verlag, Lecture Notes in Computer Science 1522, 1998, pp. 115–132.
105. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Rewriting of regular expressions in semi-structured data. *Proc. Workshop on Query Processing for Semistructured Data and Nonstandard Data Format*, 1999, pp. 25–32.
106. Kupferman, O., Vardi, M.Y.: The weakness of self-complementation. *Proc. 16th Symp. on Theoretical Aspects of Computer Science*, Springer-Verlag, Lecture Notes in Computer Science – vol. 1563, 1999, pp. 455–466.
107. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Rewriting of regular expressions and regular path queries. *Proc. 18th ACM Symp. on Principles of Database Systems*, 1999, pp. 194–204.
108. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Query answering using views for data integration over the Web. *Proc. ACM SIGMOD Workshop on The Web and Databases*, 1999. pp. 73–78.
109. Kupferman, O., Vardi, M.Y.: Model checking of safety properties. *Proc. 11th Int'l Conf. on Computer-Aided Verification (CAV'99)*, Lecture Notes in Computer Science 1633, Springer-Verlag, July 1999, pp. 172–183.
110. Daniele, N., Guinchiglia, F., Vardi, M.Y.: Improved automata generation for linear temporal logic *Proc. 11th Int'l Conf. on Computer-Aided Verification (CAV'99)*, Lecture Notes in Computer Science 1633, Springer-Verlag, July 1999, pp. 249–260.
111. Kupferman, O., Vardi, M.Y.: Robust satisfaction. *Proc. 10th Int'l Conf. on Concurrency Theory (CONCUR'99)*, August 1999, Springer-Verlag, Lecture Notes in Computer Science 1664, pp. 383–398.
112. De Giacomo, G., Vardi, M.Y.: Automata-theoretic approach to planning for temporally extended goals. *Proc. 5th European Conf. on Planning (ECP'99)* (S. Biundo and M. Fox, eds.), Springer-Verlag, Lecture Notes in Artificial Intelligence 1809, 2000, pp. 226–238.
113. Daniele, M., Traverso, P., Vardi, M.Y.: Strong cyclic planning revisited. *Proc. 5th European Conf. on Planning (ECP'99)* (S. Biundo and M. Fox, eds.), Springer-Verlag, Lecture Notes in Artificial Intelligence 1809, 2000, pp. 35–48.

114. Kupferman, O., Vardi, M.Y.: Vacuity detection in temporal model checking. *Proc. 10th Conf. on Correct Hardware Design and Verification Methods* (L. Pierre and T. Kropf, eds.), Sept. 1999, Springer-Verlag, Lecture Notes in Computer Science 1703, pp. 82–96.
115. Fisler, K., Vardi, M.Y.: Bisimulation and model checking. *Proc. 10th Conf. on Correct Hardware Design and Verification Methods* (L. Pierre and T. Kropf, eds.), Sept. 1999, Springer-Verlag, Lecture Notes in Computer Science 1703, pp. 338–341.
116. Peled, D., Vardi, M.Y., Yannakakis, M.: Black Box Checking, *Proc. Joint Int'l Conf. on Formal Description Techniques for Distributed Systems and Communication Protocols (FORTE), and Protocol Specification, Testing, and Verification (PSTV)*, J. Wu, S.T. Chanson, Q. Gao (eds), 1999, Beijing, China, Kluwer, pp. 225–240.
117. Kupferman, O., Vardi, M.Y.: Synthesis with incomplete information. In *Advances in Temporal Logic* (Proc. 2nd International Conference on Temporal Logic, 1997), H. Barringer et al. (eds.), 1999, Kluwer Academic Publishers, pp. 109–127.
118. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Answering regular path queries using views. *Proc. 16th IEEE Int'l Conf. on Data Engineering (ICDE 2000)*, 2000. pp. 389–398.
119. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Containment of conjunctive regular path queries with inverse. *Proc. 7th Int'l Conf. on Principles of Knowledge Representation (KR'2000)*, 2000. pp. 176–185.
120. Vardi, M.Y.: Constraints satisfaction and database theory—a tutorial. *Proc. of 19th ACM Symp. on Principles of Database Systems*, 2000, pp. 76–85.
121. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: View-based query processing for regular path queries with inverse. *Proc. of 19th ACM Symp. on Principles of Database Systems*, 2000, pp. 58–66.
122. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: View-based query processing and constraint satisfaction. *Proc. of 15th IEEE Symp. on Logic in Computer Science*, 2000, pp. 361–371.
123. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: What is query rewriting? *Proc. of 4th Int'l Workshop on Cooperative Information Agents*, Lecture Notes in Computer Science 1260, Springer-Verlag, 2000, pp. 51–59.
124. Kupferman, O., Vardi, M.Y.: An automata-theoretic approach to reasoning about infinite-state systems. *Proc. 12th Int'l Conf. on Computer-Aided Verification (CAV'00)*, Lecture Notes in Computer Science 1855, Springer-Verlag, July 2000, pp. 36–52.

125. Fraer, R., Kamhi, G., Ziv, B., Vardi, M.Y., Fix, L.: Prioritized traversal: efficient reachability analysis for verification and falsification. *Proc. 12th Int'l Conf. on Computer-Aided Verification (CAV'00)*, Lecture Notes in Computer Science 1855, Springer-Verlag, July 2000, pp. 389–402.
126. Kupferman, O., Madhusudan, P., Thiagarajan, P.S., Vardi, M.Y.: Open Systems in Reactive Environments - Control and Synthesis. *Proc. 11th Int'l Conf. on Concurrency Theory (CONCUR'00)*, University Park, PA, USA, August 2000, Lecture Notes in Computer Science 1877, pp. 92–107.
127. Kolaitis, P.G., Vardi, M.Y.: A game-theoretic approach to constraint satisfaction, *Proc. 17 National Conf. on Artificial Intelligence (AAAI 2000)*, 2000, pp. 175–181.
128. Kolaitis, P.G., Vardi, M.Y.: 0-1 laws for fragments of second-order logic—a survey. *Proc. 25th Int'l Symposium on Mathematical Foundations of Computer Science (MFCS'00)* (M. Nielsen and B. Rován, eds.), Lecture Notes in Computer Science 1893, 2000, pp. 84–98.
129. Kupferman, O., Vardi, M.Y.: μ -calculus synthesis. *Proc. 25th Int'l Symposium on Mathematical Foundations of Computer Science (MFCS'00)* (M. Nielsen and B. Rován, eds.), Lecture Notes in Computer Science 1893, 2000, pp. 497–507.
130. Coarfa, C., Demopolous, D.D., San Miguel Aguirre, A., Subramanian, D., Vardi, M.Y.: Random 3-SAT – the plot thickens. *Proc. 6th Conf. on Principles and Practice of Constraint Programming (CP'2000)* (R. Dechter, ed.), Lecture Notes in Computer Science 1894, 2000, pp. 143–159.
131. Kupferman, O., Piterman, N., Vardi, M.Y.: Fair equivalence relations. *Proc. 20th Conference on the Foundations of Software Technology and Theoretical Computer Science*, Springer-Verlag, Lecture Notes in Computer Science 1974, 2000, pp. 151–163.
132. King, V., Kupferman, O., Vardi, M.Y.: On the complexity of parity word automata. *Proc. 4th Int'l Conf. on Foundations of Software Science and Computation Structures* (F. Honsell and M. Miculan, eds.), Springer-Verlag, Lecture Notes in Computer Science 2030, 2001, pp. 276–286.
133. Vardi, M.Y.: Branching vs. linear time: final showdown. *Proc. 7th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems (TACAS'01)* (T. Margaria and W. Yi, eds.), Springer-Verlag, Lecture Notes in Computer Science 2031, 2001, pp. 1–22.
134. Fislér, K., Fraer, R., Kamhi, G., Vardi, M.Y., Yang, Z.: Is there a best symbolic cycle-detection algorithm? *Proc. 7th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems (TACAS'01)* (T. Margaria and W. Yi, eds.), Springer-Verlag, Lecture Notes in Computer Science 2031, 2001, pp. 420–434.

135. Chockler, H., Kupferman, O., Vardi, M.Y.: Coverage metrics for temporal logic model checking. *Proc. 7th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems (TACAS'01)* (T. Margaria and W. Yi, eds.), Springer-Verlag, Lecture Notes in Computer Science 2031, 2001, pp. 528–542.
136. Kupferman, O., Vardi, M.Y.: Synthesizing distributed systems. *Proc. 16th IEEE Symp. on Logic in Computer Science*, June 2001, pp. 389–398.
137. Sattler, U., Vardi, M.Y.: The hybrid μ -calculus, *Proc. Int'l Joint Conf. on Automated Reasoning (IJCAR'01)* (R. Goré, A. Leitsch, and T. Nipkow, eds.), Springer-Verlag, Lecture Notes in Artificial Intelligence 2083, pp. 76–91, 2001.
138. Chockler, H., Kupferman, O., Kurshan, R., Vardi, M.Y.: A practical approach to coverage in model checking. *Proc. 13th Int'l Conf. on Computer-Aided Verification (CAV'01)* (G. Berry, H. Comon, and A. Finkel, eds.), Lecture Notes in Computer Science 2102, Springer-Verlag, July 2001, pp. 66–78.
139. Giunchiglia, E., Narizzano, M., Tacchella, A., Vardi, M.Y.: Towards an efficient library for SAT: a manifesto. *Proc. LICS 2001 Workshop on Theory and Applications of Satisfiability Testing (SAT 2001)* (H. Kautz and B. Selman, eds.), Electronic Notes in Discrete Mathematics, Volume 9, Issue 0, June 2001, <http://www.elsevier.nl/gej-ng/31/29/24/42/show/>.
140. Coptly, F., Fix, L., Fraer, R., Giunchiglia, E., Kamhi, G., Tacchella, A., Vardi, M.Y.: Benefits of bounded model checking in an industrial setting. *Proc. 13th Int'l Conf. on Computer-Aided Verification (CAV'01)* (G. Berry, H. Comon, and A. Finkel, eds.), Lecture Notes in Computer Science 2102, Springer-Verlag, July 2001, pp. 436–453.
141. Kupferman, O., Piterman, N., Vardi, M.Y.: Extended temporal logic revisited. *Proc. 12th Int'l Conf. on Concurrency Theory (CONCUR'01)*, Springer-Verlag, Lecture Notes in Computer Science 2154, pp. 519–535.
142. Piterman, N., Vardi, M.Y.: From bidirectionality to alternation. *Proc. 26th Int'l Symp. on Mathematical Foundations of Computer Science (MFCS'01)*, Springer-Verlag, Lecture Notes in Computer Science 2136, pp. 598–609.
143. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: View-based query answering and query containment over semistructured data. *Proc. 8th Int. Workshop on Database Programming Languages (DBPL'01)*, pp. 17–28.
144. San Miguel Aguirre, A., Vardi, M.Y.: Random 3-SAT and BDDs – the plot thickens further. *Proc. 7th Conf. on Principles and Practice of Constraint Programming (CP'2001)* (T. Walsh, ed.), Springer-Verlag, Lecture Notes in Computer Science 2239, 2001, pp. 121–136.

145. Kupferman, O., Vardi, M.Y.: On bounded specifications. *Proc. Int'l Conf. on Logic for Programming, Artificial Intelligence and Reasoning (LPAR'01)* (R. Nieuwenhuis and A. Voronkov, eds.), Springer-Verlag, Lecture Notes in Computer Science 2250, 2001, pp. 24–38.
146. Fraer, R., Kamhi, G., Fix, L., Vardi, M.Y.: Evaluating semi-exhausting verification techniques for bug hunting. *Proc. 1st Int'l Workshop on Symbolic Model Checking (SMC'99)*, Electronic Notes in Theoretical Computer Science, 23:2(December 2001), pp. 1–12 .
147. Armoni, R., Fix, L., Flaisher, A., Gerth, R., Ginsburg, B., Kanza, R., Landver, A., Mador-Haim, S., Singerman, E., Tiemeyer, A., Vardi, M.Y., Zbar, Y.: The ForSpec Temporal Logic—A New Temporal Property-Specification Language. *Proc. 8th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems*, Springer-Verlag, Lecture Notes in Computer Science 2280, 2002, pp. 296–311
148. Batsell, R., Brenner, L., Osherson, D., Tsavachidis, S., Vardi, M.Y.: Eliminating incoherence from subjective estimates of chance. *Proc. 8th Int'l Conf. on the Principles of Knowledge Representation and Reasoning (KR 2002)*, 2002, pp. 353–364.
149. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Reasoning about actions and planning in LTL action theories. *Proc. 8th Int'l Conf. on the Principles of Knowledge Representation and Reasoning (KR 2002)*, 2002, pp. 593–602.
150. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Lossless regular views. *Proc. 21st ACM Symp. on Principles of Database Systems*, 2002, pp. 247–258.
151. Pan, G., Sattler, U., Vardi, M.Y.: BDD-Based Decision Procedures for K. *Proc. 18th Int'l Conf. on Automated Deduction (CADE'02)* (A. Voronkov, ed.), Lecture Notes in Artificial Intelligence 2392, Springer-Verlag, 2002, pp. 16–30.
152. Kupferman, O., Sattler, U., Vardi, M.Y.: The complexity of the graded μ -calculus. *Proc. 18th Int'l Conf. on Automated Deduction (CADE'02)* (A. Voronkov, ed.), Lecture Notes in Artificial Intelligence 2392, Springer-Verlag, 2002, pp. 423–437.
153. Kupferman, O., Piterman, N., Vardi, M.Y.: Model Checking Linear Properties of Prefix-Recognizable Systems. *Proc. 14th Int'l Conf. on Computer-Aided Verification (CAV'02)* (E. Brinksma and K.G. Larsen, eds.), Lecture Notes in Computer Science 2404, Springer-Verlag, July 2002, pp. 371–385.
154. Dalmau, V., Kolaitis, P.G., Vardi, M.Y.: Constraint satisfaction, bounded treewidth, and finite-variable logics. *Proc. 8th Int'l Conf. on Principles and Practice of Constraint Programming (CP 2002)*, Lecture Notes in Computer Science 2470, Springer-Verlag, 2002, pp. 311–326.

155. Kupferman, O., Piterman, N., Vardi, M.Y.: Pushdown specifications. *Proc. 9th Int'l Conf. on Logic for Programming, Artificial Intelligence and Reasoning (LPAR'02)*, Springer-Verlag, Lecture Notes in Artificial Intelligence 2514, 2002, pp. 262–38.
156. Calvanese, d., De Giacomo, G., Vardi, M.Y.: Decidable containment of recursive Queries. *Proc. 9th Int'l Conf. on Database Theory*, 2003, pp. 330–345.
157. Armoni, R., Bustan, D., Kupferman, O., Vardi, M.Y.: Resets vs. aborts in linear temporal logic. *Proc. 9th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems*, 2003, pp. 65–80.
158. Glusman, M., Kamhi, G., Mador-Haim, S., Fraer, R., Vardi, M.Y.: Multiple-counterexample guided iterative abstraction refinement— an industrial evaluation. *Proc. 9th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems*, 2003, pp. 176–191.
159. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: View-based query containment. *Proc. 22nd ACM Symp. on Principles of Database Systems*, 2003, pp. 56–67.
160. Pistore, M., Vardi, M.Y.: The planning spectrum – one, two, three, infinity. *Proc. 18th IEEE Symp. on Logic in Computer Science*, 2003, pp. 234–243.
161. Feder, T., Vardi, M.Y.: Homomorphism closed vs. existential positive. *Proc. 18th IEEE Symp. on Logic in Computer Science*, 2003, pp. 311–320.
162. Piterman, N., Vardi, M.Y.: Micro-macro stack systems – a new frontier of elementary decidability for sequential systems. *Proc. 18th IEEE Symp. on Logic in Computer Science*, 2003, pp. 311–390.
163. Kupferman, O., Vardi, M.Y.: $\Pi_2 \cap \Sigma_2 \equiv \text{AFMC}$. *Proc. 30th Int'l Colloq. on Automata, Languages and Programming*, 2003, pp. 697–713.
164. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Query Containment Using Views *Proc. 11th Italian Symp. on Advanced Database Systems (SEBD 2003)* 2003, pp. 467–474.
165. Armoni, R., Fix, L., Flaisher, A., Grumberg, O., Piterman, N., Tiemeyer, A., Vardi, M.Y.: Enhanced vacuity detection in linear temporal logic. *Proc. 15th Int'l Conf. on Computer-Aided Verification* (W. Hunt and F. Somenzi, eds.), July 2003, Springer-Verlag, Lecture Notes in Computer Science 2725, pp. 368–380.
166. Gurumurthy, S., Kupferman, O., Somenzi, F., Vardi, M.Y.: On complementing nondeterministic Büchi automata. *Proc. 10th Conf. on Correct Hardware Design and Verification Methods* (D. Geist and E. Tronci, eds.), Oct. 2003, Springer-Verlag, Lecture Notes in Computer Science 2860, pp. 96–110.

167. Chockler, H., Kupferman, O., Vardi, M.Y.: Coverage metrics for formal verification. *Proc. 10th Conf. on Correct Hardware Design and Verification Methods* (D. Geist and E. Tronci, eds.), Oct. 2003, Springer-Verlag, Lecture Notes in Computer Science 2860, pp. 111–125.
168. McMahan, B.J., Pan, G., Porter, P., Vardi, M.Y.: Projection Pushing Revisited. *Proc. 9th International Conference on Extending Database Technology* (EDBT), pp. 441–458, 2004.
169. Bustan, D., Kupferman, O., Vardi, M.Y.: A Measured Collapse of the Modal μ -Calculus Alternation Hierarchy. *Proc. 21st Annual Symposium on Theoretical Aspects of Computer Science*, pp. 522–533, 2004.
170. Kupferman, O., Vardi, M.Y.: From Complementation to Certification. *Proc. 10th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems*, pp. 591–606, 2004.
171. Bustan, D., Rubin, S., Vardi, M.Y.: Verifying omega-Regular Properties of Markov Chains. *Proc. 16th Int'l Conf. on Computer Aided Verification* (CAV), pp. 189–201, 2004.
172. Sebastiani, R., Singerman, E., Tonetta, S., Vardi, M.Y.: GSTE Is Partitioned Model Checking. *Proc. 16th Int'l Conf. on Computer Aided Verification* (CAV), pp. 229–241, 2004.
173. Piterman, N., Vardi, M.Y.: Global Model-Checking of Infinite-State Systems. *Proc. 16th Int'l Conf. on Computer Aided Verification* (CAV), pp. 387–400, 2004.
174. Atserias, A., Kolaitis, P.G., Vardi, M.Y.: Constraint propagation as a proof system. *Proc. 10 Int'l Conf. on Principles and Practice of Constraint Programming*, pp. 77–91, 2004.
175. Pan, G., Vardi, M.Y.: Symbolic decision procedures for QBF. *Proc. 10 Int'l Conf. on Principles and Practice of Constraint Programming*, pp. 453–467, 2004.
176. Friedgut, E., Kupferman, O., Vardi, M.Y.: Büchi complementation made tighter. *Proc. 2nd Int'l Conf. on Automated Technology for Verification and Analysis*, Taipei, Taiwan, pp. 64–78, 2004.
177. Terem, Z., Kamhi, G., Vardi, M.Y., Iron, A.: Pattern search in hierarchical high-level designs *Proc. 11th IEEE Int'l Conf. on Electronics, Circuits and Systems*, pp. 519–522, 2004.
178. Vardi, M.Y.: Model checking for database theoreticians. *Proc. 10th Int'l Conf. on Database Theory*, Lecture Notes in Computer Science – 3363, Springer-Verlag, January 2005, pp. 1–16.

179. Calvesene, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: View-based query processing – on the relationship between rewriting, answering and losslessness. *Proc. 10th Int'l Conf. on Database Theory*, Lecture Notes in Computer Science – 3363, Springer-Verlag, January 2005, pp. 321–336.
180. Armoni, R., Fix, L., Fraer, Huddleston, S., Piterman, N., Vardi, M.Y.: SAT-based induction for temporal safety properties *Proc. 2004 Workshop on Bonded Model Checking, Electronic Notes in Theoretical Computer Science*, 119:2(2005), pp. 3–16.
181. Kupferman, O., Vardi, M.Y.: Complementation constructions for nondeterministic automata on infinite words. *Proc. 11th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems*, Lecture Notes in Computer Science 3440, Springer-Verlag, 2005, pp. 206–221.
182. Pan, G., Vardi, M.Y.: Search vs. Symbolic Techniques in Satisfiability Solving *Proc. 7th Int'l Conf. on Theory and Applications of Satisfiability Testing (2004)*, Lecture Notes in Computer Science 3542, Springer-Verlag, 2005, pp. 235–250.
183. Sebastiani, R., Tonetta, S., Vardi M.Y.: Symbolic systems, explicit properties–on hybrid approaches for LTL symbolic model checking. *Proc. 17 Int'l Conf. on Computer Aided Verification*, Lecture Notes in Computer Science 3576, Springer-Verlag, 2005, pp. 350–363.
184. Arons, T., Elster, E., Fix, L., Mador-Haim, S., Mishaeli, M., Shalev, J., Singerman, E., Tiemeyer, A., Vardi, M.Y., Zuck, L.D.: Formal verification of backward compatibility of microcode. *Proc. 17 Int'l Conf. on Computer Aided Verification*, Lecture Notes in Computer Science 3576, Springer-Verlag, 2005, pp. 185–198.
185. Moore, C., Istrate, G., Demopoulos, D., Vardi, M.Y.: A Continuous-Discontinuous Second-Order Transition in the Satisfiability of Random Horn-SAT Formulas. *Proc. APPROX-RANDOM 2005* (C. Chekuri et al., eds.), Springer-Verlag, Lecture Notes in Computer Science 3264, 2005, pp. 414–425.
186. Bustan, D., Flaisher, A., Grumberg, O., Kupferman, O., Vardi, My.Y.: Regular Vacuity. *Proc. 13th IFIP Conf. on Correct Hardware Design and Verification Methods*, Springer-Verlag, Lecture Notes in Computer Science 3725, 2005, pp. 191–206.
187. Kupferman, O., Vardi, M.Y.: Safraless decision procedures. *Proc. 46th IEEE Symp. on Foundations of Computer Science*, 2005, pp. 531–540.
188. Armoni, R., Egorov, S., Fraer, r., Korchemny, D., Vardi, M.Y.: Efficient LTL Compilation for SAT-based Model Checking. *Proc. Int'l Conf. on Computer-Aided Design*, 2005, pp. 877–884.

189. Tabakov, D., Vardi, M.Y.: Experimental evaluation of classical automata constructions. *Proc. 12th Int'l Conf. on Logic for Programming and Artificial Intelligence*, Springer-Verlag, Lecture Notes in Computer Science 3835, 2005, pp. 396–411.
190. Ferrara, A., G. Pan, Vardi, M.Y.: Treewidth in verification: local vs. global. *Proc. 12th Int'l Conf. on Logic for Programming and Artificial Intelligence*, Springer-Verlag, Lecture Notes in Computer Science 3835, 2005, pp. 396–411.
191. Aspray, W., Mayadas, F., Vardi, M.Y., Zweben, S.: Panel – Educational Response to Offshoring. *Proc. 37th ACM Symp. on Computer Science Education*, 2006, pp. 330–331.
192. Armoni, M., Rodger, S., Vardi, M.Y., Verma, R.: Panel – Automata Theory, Its Relevance to Computer Science Students and Course Contents. *Proc. 37th ACM Symp. on Computer Science Education*, 2006, pp. 197–198.
193. Bonatti, P.A., Lutz, C., Murano, A., Vardi, M.Y.: The Complexity of Enriched Mu-Calculi. *Proc. 33rd Int'l Colloq. on Automata, Programming, and Languages*, Lecture Notes in Computer Science 4052, Springer-Verlag, 2006, pp. 540–551.
194. Pan, G., Vardi, M.Y.: Fixed-parameter hierarchies inside PSPACE. *Proc. 21th IEEE Symp. on Logic in Computer Science*, 2006, pp. 27–36.
195. Kupferman, O., Vardi, M.Y.: Memoryful branching-time logic. *Proc. 21th IEEE Symp. on Logic in Computer Science*, 2006, pp. 265–274.
196. Kupferman, O., Piterman, N., Vardi, M.Y.: Safriless compositional Synthesis. *Proc. 18th Int'l Conf. on Computer Aided Verification*, Lecture Notes in Computer Science 4144, Springer-Verlag, 2006, pp. 31–44.
197. Armoni, R., Korchemny, D., Tiemeyer, A., Vardi, M.Y., Zbar, Y.: Deterministic dynamic monitors for linear-time assertions. *Proc. 1st Combined Int'l Workshop on Formal Approaches to Software Testing and Runtime Verification*, Lecture Notes in Computer Science 4262, Springer, 2006, pp. 163–177.
198. Kupferman, O., Lustig, Y., Vardi, M.Y.: On locally checkable properties. *Proc. 13th Int'l Conf. on Logic for Programming, Artificial Intelligence, and Reasoning*, Lecture Notes in Computer Science 4246, Springer, 2006, pp. 302–316.
199. Vardi, M.Y.: Automata-theoretic model checking revisited, *Proc. 7th Int'l Conf. on Verification, Model Checking, and Abstract Interpretation*, Lecture Notes in Computer Science 4349, 2007, 137–150.
200. Cook, B., Gotsman, A., Podelski, A., Rybalchenko, A., Vardi, M.Y.: Proving that programs eventually do something good. *Proc. 34th ACM Symp. on Principles of Programming Languages*, 2006, pp. 265–176.

201. Vardi, M.Y.: The Büchi complementation saga. *Proc. 24th Symp. on Theoretical Aspects of Computer Science*, Lecture Notes in Computer Science 4393, 2007, 12–22.
202. Babighian, P., Kamhi, G., Vardi, M.Y.: PowerQuest – trace driven data mining for power optimization. *Proc. Conf. on Design, Automation and Test in Europe (DATE'07)*, 2007, pp. 1078–1083.
203. , Etessami, K., Kwiatkowska, M., Vardi, M.Y., Yannakakis, M.: Multi-objective Model Checking of Markov Decision Processes *Proc. 13th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems*, Lecture Notes in Computer Science 4424, pp. 50–65, 2007.
204. Sebastiani, R., Tonetta, S., Vardi, M.Y.: Property-Driven Partitioning for Abstraction Refinement. *Proc. 13th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems*, Lecture Notes in Computer Science 4424, Springer, pp. 389–404, 2007.
205. Plaku, E., Kavraki, L.E., Vardi, M.Y.: A motion planner for a hybrid robotic system with kinodynamic constraints. *Proc. IEEE Int'l Conf. on Robotics and Automation*, 2007, pp. 692–697.
206. Rozier, K.Y., Vardi, M.Y.: LTL Satisfiability Checking. *Proc. 14th Workshop on Model Checking Software (SPIN'07)*, Lecture Notes in Computer Science 4595, 149–167, Springer, 2007. (invited for special issue in Int'l J. on Software Tools for Technology Transfer)
207. Kupferman, O., Piterman, N., Vardi, M.Y.: From liveness to promptness. *Proc. 19th Int'l Conf. on Computer-Aided Verification (CAV'07)*, Lecture Notes in Computer Science 4590, 406–419, Springer, 2007.
208. Plaku, E., Kavraki, L.E., Vardi, M.Y.: Hybrid systems: from verification to falsification. *Proc. 19th Int'l Conf. on Computer-Aided Verification (CAV'07)*, Lecture Notes in Computer Science 4590, 463–476, Springer, 2007.
209. Vardi, M.Y.: Linear-time model checking – automata theory in practice. *Proc. 12th Int'l Conf. on Implementation and Applications of Automata*, Lecture Notes in Computer Science 4783, 5–10, Springer, 2007.
210. Aminoff, B., Murano, A., Vardi, M.Y.: Pushdown module checking with imperfect information. *Proc. 18th Int'l Conf. on Concurrency Theory*, Lecture Notes in Computer Science 4703, 460–475, Springer, 2007.
211. Bordeaux, L., Hamadi, Y., Vardi, M.Y.: An analysis of slow convergence in interval propagation. *Proc. 13th Int'l Conf. on Principle and Practice of Constraint Programming*, Lecture Notes in Computer Science 4741, 790–797, Springer, 2007.

212. Tabakov, D., Vardi, M.Y.: Model checking Büchi specifications. *Proc. 1st Int'l Conf. on Language and Automata Theory and Applications (LATA)*, pp. 565-576, 2007.
213. Plaku, E., Kavradi, L.E., Vardi, M.Y.: Discrete Search Leading Continuous Exploration for Kinodynamic Motion Planning. *Robotics: Science and Systems, III*, MIT Press, 326-333, 2007.
214. Armoni, R., Fix, L., Fraer, R., Heyman, T., Vardi, M.Y., Vizel, Y., Zbar, Y.: Deeper bound in BMC by combining constant propagation and abstraction. *Proc. 12th Asia and South Pacific Design Automation Conference (ASP-DAC)*, pp. 304-2209, 2007.
215. Plaku, E., Kavradi, L.E., Vardi, M.Y.: Impact of workspace decompositions on discrete search leading continuous exploration (DSLX) motion planning. *Proc. IEEE Int'l Conf. on Robotics and Automation*, pp. 3751-3756, 2008.
216. Greimel, K., Bloem, R., Jobstmann, B., Vardi, M.Y.: Open Implication, *Proc. 35th Int. Colloquium on Automata, Languages and Programming (ICALP'08)*, Lecture Notes in Computer Science 5126, 361-372, 2008.
217. Tabakov, D., Vardi, M.Y., Kamhi, G., Singerman, E.: A Temporal Language for System C. *Proc. 8th Int'l Conf. on Formal Methods in Computer-Aided Design*, IEEE, pp. 171-179, 2008.
218. Wiener, R., Kamhi, G., Vardi, M.Y.: Intelligate- scalable dynamic invariant learning for power reduction. *Proc. 18th Int'l Workshop on Integrated Circuit and System Design, Power and Timing Modeling, Optimization and Simulation (PATMOS'08)*, Lecture Notes in Computer Science 5349, 52-61, 2009.
219. Fogarty, S., Vardi, M.Y.: Büchi Complementation and Size-Change Termination. *Proc. 15th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems (TACAS'09)* Lecture Notes in Computer Science 5505, Springer, pp. 16-30, 2009.
220. Lustig, Y., Vardi, M.Y.: Synthesis from component libraries. *Proc. 12th Int'l Conf. on Foundations of Software Science and Computation Structures (F. Honsell and M. Miculan, eds.)*, Springer-Verlag, Lecture Notes in Computer Science 5504, 2009, pp. 395-409.
221. Nain, S., Vardi, M.Y.: Trace semantics is fully abstract. *Proc. 24th IEEE Symp. on Logic in Computer Science*, 2009, pp. 59-68.
222. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: An Automata-Theoretic Approach to Regular XPath. *Proc. 12th Int'l Symp. on Database Programming*

- Language*. Springer-Verlag, Lecture Notes in Computer Science 5708, pp. 18–35, 2009.
223. Fogarty, S., Vardi, M.Y.: Efficient Büchi universality checking. *Proc. 16th Int'l Conf. on Tools and Algorithms for the Construction and Analysis of Systems (TACAS'10)* Lecture Notes in Computer Science 6015, Springer, pp. 205–220, 2010.
224. Tsai, M.H., Fogarty, S., Vardi, M.Y., Tsay, Y.K.: State of Büchi Complementation. *Proc. 15th Int'l Conf. on Implementation and Application of Automata*, pp. 261–271, 2010.
225. Calvanese C., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Node selection query languages for trees. *Proc. 24th AAAI Conf. on Artificial Intelligence*, pp. 279–284, 2010.
226. Kupferman, O., Vardi, M.Y.: Synthesis of trigger properties. *Proc. 16th Int'l Conf. on Logic for Programming, Artificial Intelligence, and Reasoning*, Lecture Notes in Artificial Intelligence 6355, Springer, pp. 312–331, 2010.
227. Mogavero, F., Murano, A., Vardi, M.Y.: Relentful Strategic Reasoning in Alternating-Time Temporal Logic. *Proc. 16th Int'l Conf. on Logic for Programming, Artificial Intelligence, and Reasoning*, Lecture Notes in Artificial Intelligence 6355, Springer, pp. 371–386, 2010.
228. Bhatia, A., Kavragi, L.E., Vardi, M.Y.: Sampling-based motion planning with temporal goals. *Proc. IEEE Int'l Conf. on Robotics and Automation*, pp. 2689–2696, 2010.
229. Tabakov, D., Vardi, M.Y.: Monitoring temporal SystemC properties. *Proc. 8th ACM/IEEE Int'l Conf. on Formal Methods and Models for Codesign*, 2010, pp. 123–132.
230. Tabakov, D., Vardi, M.Y.: Optimized temporal monitors for SystemC. *Proc. 1st Int'l Conf. on Runtime Verification*, Lecture Notes in Computer Science 6418, Springer, pp. 436–451, 2010.
231. Mogavero, F., Murano, A., Vardi, M.Y.: Reasoning About Strategies. *Proc. 30th Int'l Conf. on Foundations of Software Technology and Theoretical Computer Science*, Leibniz International Proceedings in Informatics 8, Schloss Dagstuhl, pp. 133–144, 2010.
232. Bhatia, A., Kavragi, L.E., Vardi, M.Y.: Motion planning with hybrid dynamics and temporal goals. *Proc. 49th IEEE Conference on Decision and Control*, pp. 1108–1115, 2010.

233. Kupferman, O., Lustig, Y., Vardi, M.Y., Yannakakis, M.: Temporal synthesis for bounded systems and environments. *Proc. 28th Int'l Symp. on Theoretical Aspects of Computer Science*, pp. 615–626, 2011.
234. Calvanese, D., De Giacomo, G., Lenzerini, M., Vardi, M.Y.: Simplifying schema mappings. *Proc. 14th Int'l Conf. on Database Theory*, pp. 114–125, 2011.
235. Fisher, J., Piterman, N., Vardi, M.Y.: The Only Way Is Up. *Proc. 17th Int'l Symp. on Formal Methods*, Lecture Notes in Computer Science 6664, Springer, pp. 3–11, 2011.
236. Rozier, K.Y., Vardi, M.Y.: A multi-encoding approach for LTL symbolic satisfiability checking. *Proc. 17th Int'l Symp. on Formal Methods*, Lecture Notes in Computer Science 6664, Springer pp. 417–431, 2011.
237. Lustig, Y., Vardi, M.Y.: Synthesis from Recursive-Components Libraries. *Proc. 2nd Int'l Symp. on Games, Automata, Logics and Formal Verification*, EPTCS 54, pp. 1–16, 2011.
238. Cook, B., Koskinen, E., Vardi, M.Y.: Temporal Property Verification as a Program Analysis Task. *Proc. 23rd Int'l Conf. on Computer Aided Verification*, Lecture Notes in Computer Science 6806, Springer, 2011, pp. 333-348.
239. Fogarty, S., Kupferman, O., Vardi, M.Y., Wilke, Thomas: Unifying Büchi Complementations. *Proc. 25th Annual Conf. on Computer Science Logic*, pp. 248–263, 2011.
240. Lustig, Y., Nain, S., Vardi, M.Y.: Synthesis from Probabilistic Components. *Proc. 25th Annual Conf. on Computer Science Logic*, pp. 412–427, 2011.
241. Fisher, J., Henzinger, T.A., Nickovic, D., Piterman, N., Singh, A.V., Vardi, M.Y.: Dynamic Reactive Modules. *Proc. 22nd Int'l Conf. on Concurrency Theory*, pp. 404-418, 2011.
242. Tabakov, D., Vardi, M.Y.: Automatic aspectization of SystemC,. *Proc. workshop on Modularity in Systems Software*, pp. 9–14, 2012
243. Nain, S., Vardi, M.Y.: Synthesizing probabilistic composers. *Proc. 15th Int'l Conf. on Foundations of Software Science and Computational Structures*, pp. 421–436, 2012.
244. Benque, D., Bourton, A., Cockerton, C., Cook, B., Fisher, J., Ishtiaq, S., Piterman, N., Taylor, A., Vardi, M.Y.: Bma: Visual tool for modeling and analyzing biological networks. *Proc. 24 Int'l Conf. on Computer-Aided Verification*, pp. 686-692, 2012.

245. Mogavero, F., Murano, A., Perelli, G., Vardi, M.Y.: What makes ATL** decidable? A decidable fragment of Strategy Logic. *Proc. 23rd Int'l Conf. on Concurrency Theory*, pp. 193–208, 2012.
246. Dutta, S., Tabakov, D., Vardi, M.Y.: CHIMP—a Tool for Assertion-Based Dynamic Verification of SystemC Models. *Proc. Int'l Workshop on Design and Implementation of Formal Tools and Systems*, pp. 38–45, 2013.
247. Rozier, K.Y., Vardi, M.Y.: Deterministic Compilation of Temporal Safety Properties in Explicit State Model Checking. *Proc. 8th Int'l Haifa Verification Conference*, Lecture Notes in Computer Science 7857, pp. 243–259, 2013.
248. Maly, M.R., Lahijanjan, M., Kavradi, L.E., Kress-Gazit, H., Vardi, M.Y.: Iterative temporal motion planning for hybrid systems in partially unknown environments. *Proc. 16th Int'l Conf. on Hybrid systems: computation and control*, pp. 353–362, 2013.
249. Chakraborty, S., Meel, K.S., Vardi, M.Y.: A Scalable and Nearly Uniform Generator of SAT Witnesses. *Proc. 25th Int'l Conf. on Computer Aided Verification*, pp. 608–623, 2013.
250. Barcel Baeza, P., Romero, M., Vardi, M.Y.: Semantic acyclicity on graph databases. *Proc. 32nd ACM Symp. on Principles of Database Systems*, pp. 237–248, 2013.
251. Nain, S., Vardi, M.Y.: Solving Partial-Information Stochastic Parity Games. *Proc. 28th ACM/IEEE Symp. on Logic in Computer Science*, pp. 341–348, 2013.
252. Chaudhuri, S., Sankaranarayanan, S., Vardi, M.Y.: Regular Real Analysis *Proc. 28th ACM/IEEE Symp. on Logic in Computer Science*, pp. 509–518, 2013.
253. Chakraborty, S., Meel, K.S., Vardi, M.Y.: A Scalable Approximate Model Counter. *Proc. 19th Int'l Conf. on Principles and Practice of Constraint Programming*, pp. 200–216, 2013.
254. De Giacomo, G., Vardi, M.Y.: Linear Temporal Logic and Linear Dynamic Logic on Finite Traces. *Proc. 23rd Int'l Joint Conf. on Artificial Intelligence*, 2013.
255. Fogarty, S., Kupferman, O., Vardi, M.Y., Wilke, T.: Profile Trees for Büchi Automata, with Application to Determinization. *Proc. 4th Int'l Symp. on Games, Automata, Logics and Formal Verification*, pp. 107–121, 2013.
256. Chatterjee, K., Doyen, L., Nain, S., Vardi, M.Y.: The Complexity of Partial-Observation Stochastic Parity Games with Finite-Memory Strategies. *Proc. 17th Int'l Conf. on Foundations of Software Science and Computation Structures*, pp. 242–257, 2014.

257. Lahijanian, M., Kavraki, L.E., Vardi, M.Y.: A Sampling-Based Strategy Planner for Nondeterministic Hybrid Systems. *Proc. Int'l IEEE Conf. on Robotics and Automation*, pp. 3005-3012, 2014.
258. Barcelo, P., Romero, M., Vardi, M.Y.: Does query evaluation tractability help query containment? *Proc. 33rd ACM Symposium on Principles of Database Systems*, pp. 188–199, 2014.
259. Chakraborty, S., Meel, K.S., Vardi, M.Y.: Balancing Scalability and Uniformity in SAT Witness Generator. *Proc. 51st Design Automation Conference*, pp. 1–6, 2014.
260. Chakraborty, S., Fremont, D.J., Meel, K.S., Seshia, S.A., Vardi, M.Y.: Distribution-Aware Sampling and Weighted Model Counting for SAT. *Proc. 29th AAAI Conf. on Artificial Intelligence*, pp. 1722–1730, 2014.
261. Li, J., Zhang, L., Pu, G., Vardi, M.Y., and He, J.: LTL_f satisfiability checking. In *Proc 21th European Conf. on Artificial Intelligence*, pp. 91–96, 2014.
262. Ehlers, R., Lafortune, S., Tripakis, S., Vardi, M.Y.: Bridging the Gap between Supervisory Control and Reactive Synthesis: Case of Full Observation and Centralized Control. *Proc. 12th Int'l Workshop on Discrete Event Systems* pp. 222–227, 2014.

OTHER PUBLICATIONS

1. Beeri, C., Vardi, M.Y.: A note on decompositions of relational databases. *SIGMOD Record* 12:1(Oct. 1981), pp.33–37.
2. Gaifman, H., Vardi, M.Y.: A simple proof that connectivity is not first-order. *Bulletin of the European Association for Theoretical Computer Science*, 26(June 1985), pp. 43–45.
3. Vardi, M.Y.: A response to “A complete axiomatization for full join dependencies in relation”. *Bulletin of the European Association for Theoretical Computer Science*, 26(June 1985), pp. 65–67.
4. Bryant, R.E., Vardi, M.Y.: Hope for more balance in supply and demand. *Computing Research news* 14:2(March 2002), pp. 4–11.
5. Vardi, M.Y., Finin, T., Henderson, T: Survey results show better balance in supply and demand. *Computing Research news* 15:2(March 2003), pp. 6–13.
6. Accellera Formal Verification Technical Committee, Property Specification Language Reference Manual, version 1.0, January 2003.

7. Abiteboul, S., Hull, R. Vianu, V. Greibach, S.A., Harrison, M.A, Horowitz, E., Rosenkrantz, D.J., Ullman, J.D., Vardi, M.Y.: In memory of Seymour Ginsburg 1928 - 2004. *SIGMOD Record* 34(1)(2005), pp. 5–12.
8. Vardi, M.Y.: Where do you come from? and where are you going? *Commun. ACM* 51(7), p. 5, 2008.
9. Vardi, M.Y.: Let us—together—make CACM exciting. *Commun. ACM* 51(10), p. 5, 2008.
10. Vardi, M.Y.: How are we doing? *Commun. ACM* 52(1), p. 5, 2009.
11. Vardi, M.Y.: Yes, we can. *Commun. ACM* 52(3), p. 5, 2009.
12. Vardi, M.Y.: Conferences vs. journals in computing research. *Commun. ACM* 52(5), p. 5, 2009.
13. Vardi, M.Y.: Open, closed, or clopen access? *Commun. ACM* 52(7), p. 5, 2009.
14. Vardi, M.Y.: The financial meltdown and computing. *Commun. ACM* 52(9), p. 5, 2009.
15. Vardi, M.Y.: Is the image crisis over? *Commun. ACM* 52(11), p. 5, 2009.
16. Vardi, M.Y.: More debate, please! *Commun. CACM* 53(1), p. 5, 2010.
17. Vardi, M.Y.: Revisiting the publication culture in computing research. *Commun. CACM* 53(3), p. 5, 2010.
18. Vardi, M.,Y.: Globalization and Offshoring of Software revisited. *Commun. ACM* 53(5), p. 5, 2010.
19. Vardi, M.Y.: Hypercriticality. *Commun. ACM* 53(7), p. 5, 2010.
20. Vardi, M.Y.: Science has only two legs. *Commun. ACM* 53(9), p. 5, 2010.
21. Vardi M.Y.: Where have all the workshops gone? *Commun. ACM* 54(1), p. 5, 2011.
22. Vardi M.Y.: Fumbling the future. *Commun. ACM* 54(3), p. 5, 2011.
23. Vardi M.Y.: Technology has social consequences. *Commun. ACM* 54(5), p. 5, 2011.
24. Vardi M.Y.: Solving the unsolvable. *Commun. ACM* 54(7), p. 5, 2011.
25. Vardi M.Y.: Are you talking to me? *Commun. ACM* 54(9), p. 5, 2011.
26. Vardi M.Y.: Is Moore’s party over? *Commun. ACM* 54(11), p. 5, 2011.

27. Vardi M.Y.: Computing for humans. *Commun. ACM* 54(12), p. 5, 2011.
28. Vardi M.Y.: Artificial intelligence – past and future. *Commun. ACM* 55(1), p. 5, 2012.
29. Vardi, M.Y.: What is an algorithm? *Commun. ACM* 55(3), p. 5, 2012.
30. Vardi, M.Y.: Fair access. *Commun. ACM* 55(5);, p. 5, 2012.
31. Vardi, M.Y.: Predatory scholarly publishing. *Commun. ACM* 55(7), p. 5, 2012.
32. Vardi, M.Y.: Why ACM? *Commun. ACM* 55(9), p. 5, 2012.
33. Vardi, M.Y.: Consequence of machine intelligence. *The Atlantic*, Oct. 25, 2012.
34. Vardi, M.Y.: Will MOOCs destroy academia? *Commun. ACM* 55(11), p. 5, 2012.
35. Vardi, M.Y.: Who begat computing? *Commun. ACM* 56(1), p. 5, 2013.
36. Vardi, M.Y.: To boycott or not to boycott. *Commun. ACM* 56(3), p. 5, 2013.
37. Vardi, M.Y.: Fricative computing. *Commun. ACM* 56(5), p. 5, 2013.
38. Vardi, M.Y.: The great robotics debate. *Commun. ACM* 56(7), p. 5, 2013.
39. Mehlhorn, M., Vardi, M.Y., Herbstritt, M.: Publication Culture in Computing Research. *Informatik Spektrum* 36(3), pp. 330–333, 2013.
40. Vardi, M.Y., Vianu, V.: What is a flagship publication? *Commun. ACM* 56(8), p. 5, 2013.
41. Vardi, M.Y.: Has the innovation cup run dry? *Commun. ACM* 56(9), p. 5, 2013.
42. Vardi, M.Y.: The end of the American network. *Commun. ACM* 56(11), p. 5, 2013.
43. Vardi, M.Y.: Scalable conferences. *Commun. ACM* 57(1), p. 5, 2014.
44. Vardi, M.Y.: Boolean satisfiability: theory and engineering. *Commun. ACM* 57(3), p. 5, 2014.
45. Vardi, M.Y.: Moore’s law and the sand-heap paradox. *Commun. ACM* 57(5), p. 5, 2014.
46. Vardi, M.Y.: Openism, IPism, fundamentalism, and pragmatism. *Commun. ACM* 57(8), p. 5, 2014.
47. Vardi, M.Y.: Would Turing have passed the Turing Test? *Commun. ACM* 57(9), p. 5, 2014.

48. Rehof, J., Vardi, M.Y.: Design and Synthesis from Components (Dagstuhl Seminar 14232). *Dagstuhl Reports* 4(6), p. 29–47, 2014.
49. Vardi, M.Y.: The rise and fall of industrial research labs. *Commun. ACM* 58(1), p. 5, 2015.

RESEARCH REPORTS

1. Vardi, M.Y.: Unsolvable decision problems for program schemas with input variables, Dept. of Applied Math., The Weizmann Institute of Science, July 1980.
2. Vardi, M.Y.: Expected properties of set partitions, Dept. of Applied Math., The Weizmann Institute of Science, August 1980.
3. Vardi, M.Y.: A sequence converging to $\ln(x)$, Dept. of Applied Math., The Weizmann Institute of Science, August 1980.
4. Beerl, C., Vardi, M.Y.: On the complexity of testing implications of data dependencies, Dept. of Computer Science, The Hebrew University of Jerusalem, December 1980.
5. Vardi, M.Y., Wolper, P.: Applications of temporal logic : an automata-theoretic perspective. CSLI, Stanford University, February 1985.

REVIEWS

1. Review of “On database logic” by B.E. Jacobs, *Zentralblatt fur Mathematik* – 479.68061.
2. Review of “Programming languages and logics of programs” by S.R. Radev, *Zentralblatt fur Mathematik* – 507.03008.
3. Review of “Structure and complexity of relational queries” by A.K. Chandra and D. Harel, *Zentralblatt fur Mathematik* – 511.68073.
4. Review of “Algebraic semantics and program logic” by P. Enjalbert, *Zentralblatt fur Mathematik* – 516.68036.
5. Review of “An algorithmic logic with partial operations” by U. Petermann, *Zentralblatt fur Mathematik* – 519.68047.