Verification of Hardware and Software
Alexander Rabinovich

1 Surveys Books: Monadic Logic, Automata, Temporal Logics

References

[1] E. Clarke and Schlingloff. Model checking. In A. Robinson and A. Voronkov, editors, *Handbook on Automated Reasoning*, pages 3–157. Elsevier Science Publishers B.V., 2001.

[2] E.A. Emerson (1990). Temporal and modal logic. In J. van Leeuwen, editor, *Handbook of Theoretical Computer Science*, volume B. Elsevier, Amsterdam, 1990.

[3] E.A. Emerson (1996). *Automated Temporal reasoning about Reactive systems.* Logics for Concurrency: Structure versus Automata, F. Moller and G. Birtwistle (eds.), Springer LNCS no. 1043, pp. 41–101, 1996.

[4] D. Gabbay, I. Hodkinson and M. Reynolds (1994). *Temporal Logic.* Oxford University Press.

[5] M. O. Rabin. Decidable theories. In J. Barwise editor *Handbook of Mathematical Logic*, North-Holland, 1977.

[6] C. Stirling. Modal and temporal logics. In *Handbook of Logic in Computer Science*, Oxford University press, 1992, 476-567.

[7] W. Thomas. Automata on Infinite Objects. In J. van Leeuwen editor *Handbook of Theoretical Computer Science*, The MIT Press, 1990.

[8] W. Thomas Languages, Automata, and Logic Handbook of Formal Language Theory (G. Rozenberg, A. Salomaa, Eds.),Vol. III, Springer-Verlag , New York, pp. 389-455. '

[9] B. A. Trakhtenbrot and Y. M. Barzdin. Finite Automata, North Holland Amsterdam, 1973.

2 Expressive Completeness

References

[1] D. Gabbay, A. Pnueli, S. Shelah and J. Stavi. On the temporal analysis of fairness. *7th ACM Symp. on Principles of Prog. Lang.*, pp. 163-173, 1980.

[2] T. Hafer and W. Thomas (1987). Computation tree logic CTL* and path quantifiers in the monadic theory of the binary tree. In *Proceedings of ICALP'87: International Colloquium on Automata, Languages and Programming*, *Lecture Notes in Computer Science* **267**:269–279, Springer-Verlag.

[3] Y. Hirshfeld and A. Rabinovich (1999). Quantitative Temporal Logic. In Computer Science Logic 1999, *Lecture Notes in Computer Science* **1683**:172-187, Springer-Verlag.

[4] Y. Hirshfeld, A. Rabinovich. A framework for Decidable Temporal Logics. In ICALP99, LNCS vol. 1644, pp 422-432, Springer Verlag 1999.

[5] Ian Hodkinson. Notes on games in temporal logic. Lecture notes for LUATCS meting, Johannesburg, Dec 1999. http://www.doc.ic.ac.uk/ imh/

[6] D. Janin and I. Walukiewicz (1996). On the expressive completeness of the propositional mu-calculus with respect to monadic second order logic. In *Proceedings of CONCUR'96: International Conference on Concurrency Theory*, *Lecture Notes in Computer Science* **1119**:263–277, Springer-Verlag.

[7] H. W. Kamp (1968). Tense logic and the theory of linear order. PhD Thesis, University of California, Los Angeles.

[8] A. Rabinovich Expressive power of Temporal Logics. In *Proc. 13th Int. Conf. on Concurrency Theory. Brno, Czech Republic Aug. 2002*, volume 2421 of *Lecture Notes in Computer Science*, pages 57–75. Springer, 2002.