

MR2186457 (2006j:03017) 03B44 (68Q45 68Q60 68Q70)

Ésik, Z. (H-SZEG-C)

An algebraic characterization of temporal logics on finite trees. III. (English summary)

Proceedings of the 1st International Conference on Algebraic Informatics, 101–110, Aristotle Univ. Thessaloniki, Thessaloniki, 2005.

In this last part of a three-part series of papers [see Part I, Z. Ésik, in *Proceedings of the 1st International Conference on Algebraic Informatics*, 53–77, Aristotle Univ. Thessaloniki, Thessaloniki, 2005; [MR2186455 \(2006j:03018\)](#); Part II, in *Proceedings of the 1st International Conference on Algebraic Informatics*, 79–99, Aristotle Univ. Thessaloniki, Thessaloniki, 2005; [MR2186456 \(2006j:03019\)](#)], an effective characterization of next+ef-definability of tree languages is given by providing a more feasible specification of the corresponding variety of finite algebras [see Part I]. This effective characterization extends the results of [J. Cohen, D. Perrin and J.-E. Pin, *J. Comput. System Sci.* **46** (1993), no. 3, 271–294; [MR1228808 \(94i:68154\)](#)] from words to trees, and re-proves independently the results of [M. Bojańczyk and I. Walukiewicz, in *CONCUR 2004—Concurrency Theory*, 131–145, Lecture Notes in Comput. Sci., 3170, Springer, Berlin, 2004] by different methods.

{For the entire collection see [MR2184982 \(2006f:68005\)](#)}

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