

Automata, Languages and Programming

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Characterizations of PUNC and precomputation.- Comparison of algorithms controlling concurrent access to a database: A combinatorial approach.- A new duality result concerning Voronoi diagrams.- Classification of all the minimal bilinear algorithms for computing the coefficients of the product of two polynomials modulo a polynomial.- On exponential lowness.- A tradeoff between search and update time for the implicit dictionary problem.- Intersections of some families of languages.- Correspondence between ternary simulation and binary race analysis in gate networks.- Counting with rational functions.- Finite biprefix sets of paths in a Graph.- Parallel RAMs with owned global memory and deterministic context-free language recognition.- A Strong restriction of the inductive completion procedure.- On discerning words by automata.- Complexity classes without machines: On complete languages for UP.- Containment, separation, complete sets, and immunity of complexity classes.- On nontermination of Knuth-Bendix algorithm.- Tradeoffs for language recognition on parallel computing models.- Rational equivalence relations.- Some further results on digital search trees.- Knowledge, belief and time.- A termination detector for static and dynamic distributed systems with asynchronous non-first-in-first-out communication.- Decompositions of nondeterministic reductions.- Hierarchical planarity testing algorithms.- Synthesis and equivalence of concurrent systems.- The set union problem with backtracking.- Torsion matrix semigroups and recognizable transductions.- On recognizable subsets of free partially commutative monoids.- Min Cut is NP-complete for edge weighted trees.- Alternating automata, the weak monadic theory of the tree, and its complexity.- Subpolynomial complexity classes of real functions and real numbers.- Etude syntaxique des parties reconnaissables de mots infinis.- Refusal testing.- A timed model for communicating sequential processes.- A uniform reduction theorem extending a result of J. Grollmann and A. Selman.- On the complexity of deciding fair termination of probabilistic concurrent finite-state programs.- A new approach to detection of locally indicative stability.- A more efficient algorithm for lattice basis reduction.- Lower bounds by recursion theoretic arguments.- An improved algorithm for transitive closure on acyclic digraphs.- Un algorithme determinant les melanges de deux mots.- A very fast, practical algorithm for finding a negative cycle in a digraph.- A compositional reformulation of Owicki-Gries's partial correctness logic for a concurrent while language.- Semigroups and languages of dot-depth 2.- A parallel vertex insertion algorithm for minimum spanning trees.- More complicated questions about maxima and minima, and some closures of NP.- Lower bounds for dynamic range query problems that permit subtraction (extended abstract).- E-unification algorithms for a class of confluent term rewriting systems.- On fixed-point clones.

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