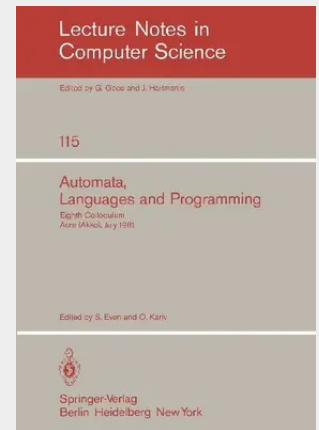


Automata, Languages and Programming

Eighth Colloquium, Acre (Akko), Israel, July 13-17, 1981

Refined analysis and improvements on some factoring algorithms.- Absolute primality of polynomials is decidable in random polynomial time in the number of variables.- Area-time optimal VLSI networks for computing integer multiplication and Discrete Fourier Transform.- Cost tradeoffs in graph embeddings, with applications.- Minimum s-t cut of a planar undirected network in $O(n \log^2(n))$ time.- On the density of color-families.- The implication problem for data dependencies.- Characterizing data base Dependencies.- Data flow analysis of applicative programs.- Flow analysis of lambda expressions.- Algorithmic specifications of abstract data types.- Nondeterminism in abstract data types.- A view of directions in relational database theory.- A new characterization of the regular languages.- Languages Reconnaissables et Codage Prefixe Pur.- Passes, sweeps and visits.- On LALR(k) testing.- On size bounds for deterministic parsers.- A decision procedure for the equivalence of two dpdas one of which is linear.- The deducibility problem in Propositional Dynamic Logic.- Finite models for deterministic propositional dynamic logic.- Impartiality, justice and fairness: The ethics of concurrent termination.- Computing a perfect strategy for $n \times n$ chess requires time exponential in n .- On the complexity of simple arithmetic expressions.- Proving lower bounds for linear decision trees.- Parikh-bounded languages.- Generalized Parikh mappings and homomorphisms.- Chomsky-Schutzenberger representations for families of languages and grammatical types.- Algebraically specified programming systems and Hoare's logic.- Automatic construction of verification condition generators from hoare logics.- Circular expressions: Elimination of static environments.- An axiomatic approach to the Korenjak-Hopcroft algorithms.- On the (generalized) post correspondence problem with lists of length 2.- A sparse table implementation of priority queues.- Comparing and putting together recursive path ordering, simplification orderings and Non-Ascending Property for termination proofs of term rewriting systems.- Termination of linear rewriting systems.- Realizing an equational specification.- A cook's tour of countable nondeterminism.- The complexity of decision problems for finite-turn multicounter machines.- Alternating multihead finite automata.- The solution for the branching factor of the alpha-beta pruning algorithm.- Uniform complexity and digital signatures.- On the generation of cryptographically strong pseudo-random sequences.- Measuring the expressive power of dynamic logics: An application of abstract model theory.

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