Algorithmic Verification of Linear Temporal Logic Specifications

On Existentially First-Order Definable Languages and their Relation to NP

An Algebraic Approach to Communication Complexity

Deciding Global Partial-Order Properties

Simple Linear-Time Algorithms for Minimal Fixed Points

Hardness Results for Dynamic Problems by Extensions of Fredman and Saks' Chronogram Method

Simpler and Faster Dictionaries on the AC\superscript{0} RAM

Partial-Congruence Factorization of Bisimilarity Induced by Open Maps

Reset Nets Between Decidability and Undecidability

Geometric Algorithms for Robotic Manipulation

Compact Encodings of Planar Graphs via Canonical Orderings and Multiple Parentheses

Reducing Simple Polygons to Triangles - A Proof For an Improved Conjecture

Difficult Configurations - On the Complexity of LTrL

On the Expressiveness of Real and Integer Arithmetic Automata

Distributed Matroid Basis Completion via Elimination Upcast and Distributed Correction of Minimum-Weight Spanning Trees

Independent Sets with Domination Constraints

Robust Asynchronous Protocols Are Finite-State

Deciding Bisimulation-Like Equivalences with Finite-State Processes

Do Probabilistic Algorithms Outperform Deterministic Ones?

A Degree-Decreasing Lemma for (MOD q, MOD p) Circuits

Improved Pseudorandom Generators for Combinatorial Rectangles

Translation Validation for Synchronous Languages

An Efficient and Unified Approach to the Decidability of Equivalence of Propositional Programs

On Branching Programs With Bounded Uncertainty

CONS-Free Programs with Tree Input

Concatenable Graph Processes: Relating Processes and Derivation Traces

Axioms for Contextual Net Processes

Existential Types: Logical Relations and Operational Equivalence

Optimal Sampling Strategies in Quicksort

A Genuinely Polynomial-Time Algorithm for Sampling Two-Rowed Contingency Tables

A Modular Approach to Denotational Semantics

Generalised Flowcharts and Games

Efficient Minimization of Numerical Summation Errors

Efficient Approximation Algorithms for the Subset-Sums Equality Problem

Structural Recursive Definitions in Type Theory

A Good Class of Tree Automata. Application to Inductive Theorem Proving

Locally Periodic Infinite Words and a Chaotic Behaviour
Protection in Programming-Language Translations  p. 868
Efficient Simulations by Queue Machines  p. 884
Power of Cooperation and Multihead Finite Systems  p. 896
A Simple Solution to Type Specialization  p. 908
Multi-Stage Programming: Axiomatization and Type Safety  p. 918
Author Index  p. 931

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.