Algorithmic Verification of Linear Temporal Logic Specifications p. 1
On Existentially First-Order Definable Languages and their Relation to NP p. 17
An Algebraic Approach to Communication Complexity p. 29
Deciding Global Partial-Order Properties p. 41
Simple Linear-Time Algorithms for Minimal Fixed Points p. 53
Hardness Results for Dynamic Problems by Extensions of Fredman and Saks’ Chronogram Method p. 67
Simpler and Faster Dictionaries on the AC[^0] RAM p. 79
Partial-Congruence Factorization of Bisimilarity Induced by Open Maps p. 91
Reset Nets Between Decidability and Undecidability p. 103
Geometric Algorithms for Robotic Manipulation p. 116
Compact Encodings of Planar Graphs via Canonical Orderings and Multiple Parentheses p. 118
Reducing Simple Polygons to Triangles - A Proof For an Improved Conjecture p. 130
Difficult Configurations - On the Complexity of LTrL p. 140
On the Expressiveness of Real and Integer Arithmetic Automata p. 152
Distributed Matroid Basis Completion via Elimination Upcast and Distributed Correction of Minimum-Weight Spanning Trees p. 164
Independent Sets with Domination Constraints p. 176
Robust Asynchronous Protocols Are Finite-State p. 188
Deciding Bisimulation-Like Equivalences with Finite-State Processes p. 200
Do Probabilistic Algorithms Outperform Deterministic Ones? p. 212
A Degree-Decreasing Lemma for (MOD q, MOD p) Circuits p. 215
Improved Pseudorandom Generators for Combinatorial Rectangles p. 223
Translation Validation for Synchronous Languages p. 235
An Efficient and Unified Approach to the Decidability of Equivalence of Propositional Programs p. 247
On Branching Programs With Bounded Uncertainty p. 259
CONS-Free Programs with Tree Input p. 271
Concatenable Graph Processes: Relating Processes and Derivation Traces p. 283
Axioms for Contextual Net Processes p. 296
Existential Types: Logical Relations and Operational Equivalence p. 309
Optimal Sampling Strategies in Quicksort p. 327
A Genuinely Polynomial-Time Algorithm for Sampling Two-Rowed Contingency Tables p. 339
A Modular Approach to Denotational Semantics p. 351
Generalised Flowcharts and Games p. 363
Efficient Minimization of Numerical Summation Errors p. 375
Efficient Approximation Algorithms for the Subset-Sums Equality Problem p. 387
Structural Recursive Definitions in Type Theory p. 397
A Good Class of Tree Automata. Application to Inductive Theorem Proving p. 409
Locally Periodic Infinite Words and a Chaotic Behaviour p. 421
Bridges for Concatenation Hierarchies p. 431
Complete Proof Systems for Observation Congruences in Finite-Control \( \pi \)-Calculus p. 443

Concurrent Constraints in the Fusion Calculus p. 455
On Computing the Entropy of Cellular Automata p. 470
On the Determinization of Weighted Finite Automata p. 482
Bulk-Synchronous Parallel Multiplication of Boolean Matrices p. 494
A Complex Example of a Simplifying Rewrite System p. 507
On a Duality between Kruskal and Dershowitz Theorems p. 518
A Total AC-Compatible Reduction Ordering on Higher-Order Terms p. 530
Model Checking Game Properties of Multi-agent Systems p. 543
Limited Wavelength Conversion in All-Optical Tree Networks p. 544
Computing Mimicking Networks p. 556
Metric Semantics for True Concurrent Real Time p. 568
The Regular Real-Time Languages p. 580
Static and Dynamic Low-Congested Interval Routing Schemes p. 592
Low-Bandwidth Routing and Electrical Power Networks p. 604
Constraint Automata and the Complexity of Recursive Subtype Entailment p. 616
Reasoning about the Past with Two-Way Automata p. 628
A Neuroidal Architecture for Cognitive Computation p. 642
Deterministic Polylog Approximation for Minimum Communication Spanning Trees p. 670
A Polynomial Time Approximation Scheme for Euclidean Minimum Cost k-Connectivity p. 682
Global/Local Subtyping and Capability Inference for a Distributed \( \pi \)-Calculus p. 695
Checking Strong/Weak Bisimulation Equivalences and Observation Congruence for the \( \pi \)-Calculus p. 707
Inversion of Circulant Matrices over \( \mathbb{Z}[m] \) p. 719
Application of Lempel-Ziv Encodings to the Solution of Word Equations p. 731
Explicit Substitutions for Constructive Necessity p. 743
The Relevance of Proof-Irelevance p. 755
New Horizons in Quantum Information Processing p. 769
Sequential Iteration of Interactive Arguments and an Efficient Zero-Knowledge Argument for NP p. 772
Image Density is Complete for Non-Interactive-SZK p. 784
Randomness Spaces p. 796
Totality, Definability and Boolean Circuits p. 808
Quantum Counting p. 820
On the Complexity of Deriving Score Functions from Examples for Problems in Molecular Biology p. 832
A Hierarchy of Equivalences for Asynchronous Calculi p. 844
On Asynchrony in Name Passing Calculi p. 856
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