

1. Record Nr.	UNISA996198257403316
Titolo	Mathematical Foundations of Computer Science 2014 [[electronic resource] ] : 39th International Symposium, MFCS 2014, Budapest, Hungary, August 26-29, 2014. Proceedings, Part I / / edited by Ersébet Csuha-Jarjú, Martin Dietzfelbinger, Zoltán Ésik
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2014
ISBN	3-662-44522-0
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (XXVI, 561 p. 65 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 8634
Disciplina	004.0151
Soggetti	Algorithms Computer science—Mathematics Discrete mathematics Numerical analysis Artificial intelligence—Data processing Machine theory Discrete Mathematics in Computer Science Numerical Analysis Data Science Formal Languages and Automata Theory Mathematical Applications in Computer Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographic references and index.
Nota di contenuto	Table of Contents - Volume I.-Invited contributions -- Partial- Observation Stochastic Reachability and Parity Games -- Every graph is easy or hard: dichotomy theorems for graph problems -- Computer Poker and Computational Game Theory -- Random Deterministic Automata -- Communication Complexity Theory: Thirty-Five Years of Set Disjointness -- What does the local structure of a planar graph tell us about its global structure? -- Logic, Semantics, Automata and Theory of Programming -- Choiceless Polynomial Time on structures with small Abelian colour Classes -- Sofic-Dyck shifts -- A Logical Characterization of Timed (non-)Regular Languages -- Asymptotic

Monadic Second-Order Logic -- Towards Efficient Reasoning Under Guarded-based Disjunctive Existential Rules -- Alternating Parity Krivine Automata -- Advances in Parametric Real-Time Reasoning -- Universal Lyndon Words -- Subword complexity and decomposition of the set of factors -- Cyclic Complexity of Words -- Classifying Recognizable Infinitary Trace Languages Using Word Automata -- Bounded variable logic, parameterized logarithmic space, and Savitch's Theorem -- An algebraic characterization of unary two-way transducers -- Size-Change Abstraction and Max-Plus Automata -- Alternating Vector Addition Systems with States -- Information Rate of Some Classes of Non-regular Languages: An Automata-theoretic Approach -- Relating Nominal and Higher-Order Rewriting -- Expressivity and Succinctness of Order-Invariant Logics on Depth-Bounded Structures -- Two Recursively Inseparable Problems for Probabilistic Automata -- Monadic Second-Order Logic with Arbitrary Monadic Predicates -- Transforming two-way alternating finite automata to one-way nondeterministic automata -- Measure Properties of Game Tree Languages -- On Upper and Lower Bounds on the Length of Alternating Towers -- LaxF: Side Conditions and External Evidence as Monads -- The monoid of queue actions -- Undecidable properties of self-affine sets and multi-tape automata -- Complexity and Expressivity of Uniform One-Dimensional Fragment with Equality -- A Unifying Approach for Multistack Pushdown Automata -- Definability and Transformations for Cost Logics and Automatic Structures -- Generalised Lyndon-Schützenberger Equations -- Complexity of Equivalence and Learning for Multiplicity Tree Automata -- Monadic datalog and regular tree pattern queries -- Model Checking Concurrent Recursive Programs using Temporal Logics -- Decidability of the interval temporal logic AABB over the rationals -- Reachability in Pushdown Register Automata -- A Generalization of the os-Tarski Preservation Theorem over Classes of Finite Structures -- Determinising Parity Automata -- Tight Bounds for Complementing Parity Automata -- On Infinite Words Determined by Indexed Languages -- A Pumping Lemma for Two-Way Finite Transducers -- Tractability Frontier for Dually-Closed Ord-Horn Quantified Constraint Satisfaction Problems -- The Dynamic Descriptive Complexity of  $k$ -Clique.

---

#### Sommario/riassunto

This two volume set LNCS 8634 and LNCS 8635 constitutes the refereed conference proceedings of the 39th International Symposium on Mathematical Foundations of Computer Science, MFCS 2014, held in Budapest, Hungary, in August 2014. The 95 revised full papers presented together with 6 invited talks were carefully selected from 270 submissions. The focus of the conference was on following topics: Logic, Semantics, Automata, Theory of Programming, Algorithms, Complexity, Parallel and Distributed Computing, Quantum Computing, Automata, Grammars and Formal Languages, Combinatorics on Words, Trees and Games.

---