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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1075
Disciplina	006.4/01/5116
Soggetti	Computers Pattern recognition Discrete mathematics Algorithms Natural language processing (Computer science) Information storage and retrieval Theory of Computation Pattern Recognition Discrete Mathematics Algorithm Analysis and Problem Complexity Natural Language Processing (NLP) Information Storage and Retrieval
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di contenuto	A faster algorithm for approximate string matching -- Boyer-Moore strategy to efficient approximate string matching -- Randomized efficient algorithms for compressed strings: the finger-print approach -- Filtration with q-samples in approximate string matching -- Computing discoveries in molecular biology -- Approximate dictionary queries -- Approximate multiple string search -- A 2 2/3-approximation algorithm for the shortest superstring problem -- Suffix trees on words -- The suffix tree of a tree and minimizing sequential transducers -- Perfect hashing for strings: Formalization and

algorithms -- Spliced alignment: A new approach to gene recognition  
-- Original Synteny -- Fast sorting by reversal -- A double  
combinatorial approach to discovering patterns in biological sequences  
-- Poisson process approximation for repeats in one sequence and its  
application to sequencing by hybridization -- Improved approximation  
algorithms for tree alignment -- The asymmetric median tree — A new  
model for building consensus trees -- Constructing computer virus  
phylogenies -- Docking of conformationally flexible proteins --  
Invariant patterns in crystal lattices: Implications for protein folding  
algorithms (extended abstract) -- Graph traversals, genes, and  
matroids: An efficient case of the travelling salesman problem --  
Alphabet independent and dictionary scaled matching -- Analysis of  
two-dimensional approximate pattern matching algorithms --  
Approximation algorithms for maximum two-dimensional pattern  
matching -- Efficient parallel algorithms for tree editing problems --  
Approximate pattern matching in directed graphs -- Finite-state  
computability of annotations of strings and trees (extended abstract).

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Sommario/riassunto

This book constitutes the refereed proceedings of the 7th Annual Symposium on Combinatorial Pattern Matching, CPM '96, held in Laguna Beach, California, USA, in June 1996. The 26 revised full papers included were selected from a total of 48 submissions; also included are two invited papers. Combinatorial pattern matching has become a full-fledged area of algorithmics with important applications in recent years. The book addresses all relevant aspects of combinatorial pattern matching and its importance in information retrieval, pattern recognition, compiling, data compression, program analysis, and molecular biology and thus describes the state of the art in the area.

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