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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 644
Disciplina	006.4
Soggetti	Pattern recognition Algorithms Discrete mathematics Natural language processing (Computer science) Information storage and retrieval Coding theory Information theory Pattern Recognition Algorithm Analysis and Problem Complexity Discrete Mathematics Natural Language Processing (NLP) Information Storage and Retrieval Coding and Information Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Probabilistic analysis of generalized suffix trees -- A language approach to string searching evaluation -- Pattern matching with mismatches: A probabilistic analysis and a randomized algorithm -- Fast multiple keyword searching -- Heaviest increasing/common subsequence problems -- Approximate regular expression pattern matching with concave gap penalties -- Matrix longest common subsequence problem, duality and hilbert bases -- From regular

expressions to DFA's using compressed NFA's -- Identifying periodic occurrences of a template with applications to protein structure -- Edit distance for genome comparison based on non-local operations -- 3-D substructure matching in protein Molecules -- Fast serial and parallel algorithms for approximate tree matching with VLDC's (Extended Abstract) -- Grammatical tree matching -- Theoretical and empirical comparisons of approximate string matching algorithms -- Fast and practical approximate string matching -- DZ A text compression algorithm for natural languages -- Multiple alignment with guaranteed error bounds and communication cost -- Two algorithms for the longest common subsequence of three (or more) strings -- Color Set Size problem with applications to string matching -- Computing display conflicts in string and circular string visualization -- Efficient randomized dictionary matching algorithms -- Dynamic dictionary matching with failure functions.

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Sommario/riassunto

This volume contains the 22 papers accepted for presentation at the Third Annual Symposium on Combinatorial Pattern Matching held April 29 to May 1, 1992, in Tucson, Arizona; it constitutes the first conference proceedings entirely devoted to combinatorial pattern matching (CPM). CPM deals with issues of searching and matching of strings and other more complicated patterns such as trees, regular expressions, extended expressions, etc. in order to derive combinatorial properties for such structures. As an interdisciplinary field of growing interest, CPM is related to research in information retrieval, pattern recognition, compilers, data compression, and program analysis as well as to results, problems and methods from combinatorial mathematics and molecular biology.

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