
Pattern Matching Algorithms

Computer Science Department

A Low-level Mathematical Pattern-matching Algorithm

Randomization and Approximation Techniques in Computer Science

Flexible Pattern Matching in Strings

Advanced Topics in Computer Vision

Analytic Pattern Matching

Flexible Pattern Matching in Strings

Pattern Matching Algorithms

Handbook of Exact String Matching Algorithms

Combinatorial Pattern Matching

Pattern Recognition and Machine Intelligence

Computer Science Handbook

Combinatorial Pattern Matching

Computational Intelligence in Pattern Recognition

Algorithms on Strings, Trees, and Sequences

Combinatorial Pattern Matching

More Efficient Bottom-up Tree Pattern Matching
Pattern Matching Algorithms
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Computer Algorithms
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A Low-level Mathematical Pattern-
matching Algorithm Springer

This book constitutes the refereed proceedings of the 17th Annual Symposium on Combinatorial Pattern Matching, CPM 2006, held in Barcelona, Spain, July 2006. The book presents 33 revised full papers together with 3 invited talks, organized in topical sections on data structures, indexing

data structures, probabilistic and algebraic techniques, applications in molecular biology, string matching, data compression, and dynamic programming.

Randomization and Approximation Techniques in Computer Science

Cambridge University Press

Observing the environment and recognising patterns for the purpose of decision making is fundamental to human nature. This book deals with the scientific discipline that enables similar perception in machines through pattern

recognition (PR), which has application in diverse technology areas. This book is an exposition of principal topics in PR using an algorithmic approach. It provides a thorough introduction to the concepts of PR and a systematic account of the major topics in PR besides reviewing the vast progress made in the field in recent times. It includes basic techniques of PR, neural networks, support vector machines and decision trees. While theoretical aspects have been given due coverage, the emphasis is more on the practical. The book is replete with examples and illustrations and includes chapter-end exercises. It is designed to meet the needs of senior undergraduate and postgraduate students of computer science and allied disciplines.

Flexible Pattern Matching in Strings

Springer

Pattern matching in trees is fundamental to a variety of programming language systems. However, progress has been slow in satisfying a pressing need for general purpose pattern matching algorithms that are efficient in both time and space. We offer asymptotic improvements in both time and space to Chase's bottom-up algorithm for pattern preprocessing. Our preprocessing algorithm has the additional advantage of being incremental with respect to pattern additions and deletions. We show how to modify our algorithm using a new decomposition method to obtain a space/time tradeoff. Finally, we trade a log factor in time for a linear space bottom-up pattern matching algorithm that handles a wide subclass of

Hoffmann and O'Donnell's Simple Patterns. (kr).

Advanced Topics in Computer Vision

Elsevier

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.

Analytic Pattern Matching

CRC Press
This book constitutes the refereed proceedings of the Second International Workshop on Randomization and Approximation Techniques in Computer Science, RANDOM'98, held in Barcelona, Spain, in October 1998. The 26 revised full papers presented were carefully reviewed and selected for inclusion in the proceedings. Also included are three invited contributions. Among the topics addressed are graph computation, derandomization, pattern matching, computational geometry, approximation algorithms, search algorithms, sorting, and networking algorithms.
Flexible Pattern Matching in Strings

Cambridge University Press
Held in Guilin of China from August 13-14, 2016, the 2016 International Conference on Computer Science and Artificial Intelligence (CSAI2016) provides an excellent international platform for all invited speakers, authors and participants to share their results and establish research collaborations for future research. The conference enjoys a wide spread participation. It would not only serve as an academic forum, but also a good opportunity to establish business cooperation. CSAI2016 proceedings collects the most up-to-date, comprehensive, and worldwide state-of-art knowledge on computer science and artificial intelligence. After strict peer-review, the proceedings put together 117 articles based on

originality, significance and clarity for the purpose of the conference.

Pattern Matching Algorithms

Springer

Computing Handbook, Third Edition:

Computer Science and Software

Engineering mirrors the modern

taxonomy of computer science and

software engineering as described by

the Association for Computing Machinery

(ACM) and the IEEE Computer Society

(IEEE-CS). Written by established leading

experts and influential young

researchers, the first volume of this

popular handbook examines the

elements involved in designing and

implementing software, new areas in

which computers are being used, and

ways to solve computing problems. The

book also explores our current

understanding of software engineering and its effect on the practice of software development and the education of software professionals. Like the second volume, this first volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.

Handbook of Exact String Matching Algorithms Oxford University Press
This is a fair overview of the basic

problems in Solar Physics. The authors address not only the physics that is well understood but also discuss many open questions. The lecturers' involvement in the SOHO mission guarantees a modern and up-to-date analysis of observational data and makes this volume an extremely valuable source for further research.

Combinatorial Pattern Matching John Wiley & Sons

This textbook presents fundamental topics in discrete mathematics introduced from the perspectives of a pure mathematician and an applied computer scientist. The synergy between the two complementary perspectives is seen throughout the book; key concepts are motivated and explained through real-world examples,

and yet are still formalized with mathematical rigor. The book is an excellent introduction to discrete mathematics for computer science, software engineering, and mathematics students. The first author is a leading mathematician in the area of logic, computability, and theoretical computer science, with more than 25 years of teaching and research experience. The second author is a computer science PhD student at the University of Washington specializing in database systems. The father-and-daughter team merges two different views to create a unified book for students interested in learning discrete mathematics, the connections between discrete mathematics and computer science, and the mathematical foundations of

computer science. Readers will learn how to formally define abstract concepts, reason about objects (such as programs, graphs and numbers), investigate properties of algorithms, and prove their correctness. The textbook studies several well-known algorithmic problems including the path problem for graphs and finding the greatest common divisor, inductive definitions, proofs of correctness of algorithms via loop invariants and induction, the basics of formal methods such as propositional logic, finite state machines, counting, probability, as well as the foundations of databases such as relational calculus.

Pattern Recognition and Machine Intelligence Springer

String matching is a very important subject in the wider domain of text

processing. It consists of finding one, or more generally, all the occurrences of a string (more generally called a pattern) in a text. The Handbook of Exact String Matching Algorithms presents 38 methods for solving this problem. For each, it gives the main features, a description, its C code, an example and references.

Computer Science Handbook World Scientific

This book presents a broad selection of cutting-edge research, covering both theoretical and practical aspects of reconstruction, registration, and recognition. The text provides an overview of challenging areas and descriptions of novel algorithms. Features: investigates visual features, trajectory features, and stereo matching;

reviews the main challenges of semi-supervised object recognition, and a novel method for human action categorization; presents a framework for the visual localization of MAVs, and for the use of moment constraints in convex shape optimization; examines solutions to the co-recognition problem, and distance-based classifiers for large-scale image classification; describes how the four-color theorem can be used for solving MRF problems; introduces a Bayesian generative model for understanding indoor environments, and a boosting approach for generalizing the k-NN rule; discusses the issue of scene-specific object detection, and an approach for making temporal super resolution video.

Combinatorial Pattern Matching Springer

This book describes a range of string problems in computer science and molecular biology and the algorithms developed to solve them.

Computational Intelligence in Pattern Recognition Pattern Matching Algorithms

This book constitutes the refereed proceedings of the 20th Iberoamerican Congress on Pattern Recognition, CIARP 2015, held in Montevideo, Uruguay, in November 2015. The 95 papers presented were carefully reviewed and selected from 185 submissions. The papers are organized in topical sections on applications on pattern recognition; biometrics; computer vision; gesture recognition; image classification and retrieval; image coding, processing and analysis; segmentation, analysis of

shape and texture; signals analysis and processing; theory of pattern recognition; video analysis, segmentation and tracking.

Algorithms on Strings, Trees, and Sequences CRC Press

Detailed algorithms for string processes and pattern matching have examples from natural language processing, molecular sequencing, and databases. Combinatorial Pattern Matching Springer Science & Business Media
Introduces the basic concepts and characteristics of string pattern matching strategies and provides numerous references for further reading. The text describes and evaluates the BF, KMP, BM, and KR algorithms, discusses improvements for string pattern matching machines, and details a

technique for detecting and removing the redundant operation of the AC machine. Also explored are typical problems in approximate string matching. In addition, the reader will find a description for applying string pattern matching algorithms to multidimensional matching problems, an investigation of numerous hardware-based solutions for pattern matching, and an examination of hardware approaches for full text search.

More Efficient Bottom-up Tree

Pattern Matching CRC Press

This volume contains the proceedings of the 16th International Symposium on Mathematical Foundations of Computer Science, MFCS '91, held in Kazimierz Dolny, Poland, September 9-13, 1991.

The series of MFCS symposia, organized alternately in Poland and Czechoslovakia

since 1972, has a long and well established tradition. The purpose of the series is to encourage high-quality research in all branches of theoretical computer science and to bring together specialists working actively in the area. Principal areas of interest in this symposium include: software specification and development, parallel and distributed computing, logic and semantics of programs, algorithms, automata and formal languages, complexity and computability theory, and others. The volume contains 5 invited papers by distinguished scientists and 38 contributions selected from a total of 109 submitted papers.

Pattern Matching Algorithms

Springer Science & Business Media
This book constitutes the refereed

proceedings of the 5th International Conference on Pattern Recognition and Machine Intelligence, PReMI 2013, held in Kolkata, India in December 2013. The 101 revised papers presented together with 9 invited talks were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on pattern recognition; machine learning; image processing; speech and video processing; medical imaging; document image processing; soft computing; bioinformatics and computational biology; and social media mining.

Foundations of Software Technology and Theoretical Computer Science

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Computing Handbook, Third Edition

Springer Science & Business Media

This book constitutes the refereed proceedings of the 26th Annual Symposium on Combinatorial Pattern Matching, CPM 2015, held on Ischia Island, Italy, in June/July 2015. The 34 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 83 submissions. The papers address issues of searching and matching strings and more complicated patterns such as trees; regular expressions; graphs; point sets; and arrays. The goal is to derive combinatorial properties of such structures and to exploit these properties in order to achieve superior performance for the corresponding computational problems. The meeting

also deals with problems in computational biology; data compression and data mining; coding; information retrieval; natural language processing; and pattern recognition.

Mathematical Foundations of Computer Science 1991 Cambridge University Press

Algorithms and Theory of Computation Handbook, Second Edition: General Concepts and Techniques provides an up-to-date compendium of fundamental computer science topics and techniques. It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems. Along with updating and

revising many of the existing chapters, this second edition contains four new chapters that cover external memory and parameterized algorithms as well as computational number theory and algorithmic coding theory. This best-selling handbook continues to help computer professionals and engineers find significant information on various algorithmic topics. The expert contributors clearly define the terminology, present basic results and techniques, and offer a number of current references to the in-depth literature. They also provide a glimpse of the major research issues concerning the relevant topics.

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