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@inproceedings{Gusfield1997AlgorithmsOS, title={Algorithms on strings, trees, and sequences}, author={D. Gusfield}, year={1997} } D. Gusfield; Published 1997; Computer Science; Linear-Time Construction of Suffix Trees We will present two methods for constructing suffix trees in detail, Ukkonen's method and Weiner's method. Weiner was the ...

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All of the major exact string algorithms are covered, including Knuth-Morris-Pratt, Boyer-Moore, Aho-Corasick and the focus of the book, suffix trees for the much harder problem of finding all repeated substrings of a given string in linear time. In addition to exact string matching, there are extensive discussions of inexact matching.

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6.2 Weiner's linear-time suffix tree algorithm 6.3 McCreight's suffix tree algorithm 6.4 Generalized suffix tree for a set of strings 6.5 Practical implementation issues 6.6 Exercises 7 First Applications of Suffix Trees 7.1 APL 1 : Exact string matching 7.2 APL2: Suffix trees and the exact set matching problem

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Coursera-Algorithms-on-Strings This course covers suffix trees, suffix arrays, and other brilliant algorithmic ideas that help doctors to find differences between genomes and power lightning fast internet searches.

GitHub - BessieChen/Coursera-Algorithms-on-Strings: This ...

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Algorithms on Strings, Trees, and Sequences: Computer ...

Constructing Suffix Arrays and Suffix Trees In this module we continue studying algorithmic challenges of the string algorithms. You will learn an $O(n \log n)$ algorithm for suffix array construction and a linear time algorithm for construction of suffix tree from a suffix array.

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Ukkonen's linear-time suffix tree algorithm. Esko Ukkonen [438] devised a linear-time algorithm for constructing a suffix tree that may be the conceptually easiest linear-time construction algorithm. This algorithm has a space-saving improvement over Weiner's algorithm (which was achieved first in the development of McCreight's algorithm), and it has a certain “on-line” property that may be useful in some situations.

Linear-Time Construction of Suffix Trees (Chapter 6 ...

Dan Gusfield. 4.08 · Rating details · 83 ratings · 4 reviews. Traditionally an area of study in computer science, string algorithms have, in recent years, become an increasingly important part of biology, particularly genetics. This volume is a comprehensive look at computer algorithms for string processing.