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Algorithms On Strings Trees And

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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Algorithms on Strings, Trees and Sequences ()

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 - cbx21/Coursera-Algorithms-on-Strings: This course ...

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Algorithms on Strings, Trees, and Sequences Dan Gusfield University of California, Davis Cambridge University Press 1997. 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 first to show that suffix trees can be built in linear time, and his method is presented both for its historical importance and for some different technical ideas that it contains.

Linear-Time Construction of Suffix Trees

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This text and reference on string processes and pattern matching presents examples related to the automatic processing of natural language, to the analysis of molecular sequences and to the management of textual databases. Algorithms are described in a C-like language, with correctness proofs and complexity analysis, to make them ready to ...

Algorithms on Strings ()

How would you search for a longest repeat in a string in LINEAR time? In 1973, Peter Weiner came up with a surprising solution that was based on suffix trees, the key data structure in pattern matching. Computer scientists were so impressed with his algorithm that they called it the Algorithm of the Year.

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