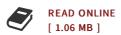




Direct Suffix Sorting

By Nan, Fei

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Basics, Concepts and Applications | Pattern matching plays a central role in differentaspects of biological sequence analysis, and has beenused in applications as diverse as short-gunsequencing, multiple sequence alignments, genefinding, analysis of repetition structures, searching for unique oligonucleotides, prediction of proteinfunction and structure, sequence homology search, finding DNA-binding protein motifs, etc. Suffix treesand suffix arrays are primary data structures used inrapid pattern matching. And the problem of suffixsorting is a fundamental problem in constructing suffix arrays. This book presents the basics, concepts of suffix trees, suffix arrays and suffixsorting and proposes a direct suffix sorting algorithm which rearranges the biological sequences of interests and facilitate high throughput patternquery, retrieval and storage in linear time. The direct suffix sorting algorithm is then applied to solve practical problems in multiple sequencealignment and data compression. The book serves bothas reference for computer scientists, computational biologists and bio-informatic professionals and an essential study materials for graduate and advanced courses on computational biology. |
Format: Paperback | Language/Sprache: english | 108 pp.



Reviews

It is great and fantastic. Better then never, though i am quite late in start reading this one. Its been written in an extremely simple way and is particularly only right after i finished reading this ebook where actually changed me, affect the way i really believe.

-- Orin Blick

Unquestionably, this is the very best operate by any author it had been writtern extremely flawlessly and beneficial. You can expect to like the way the blogger publish this publication.

-- America Gleason