Flexible Text Searching

By Panagiotis D. Michailidis, Konstantinos G. Margaritis

Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, Flexible Text Searching, Panagiotis D. Michailidis, Konstantinos G. Margaritis, Exact and approximate string matching problem is a common and often repeated task in information retrieval and bioinformatics. As current free textual databases are growing almost exponentially with the time, the string matching problem is becoming more expensive in terms computational times. The authors believe that recent advances in parallel and distributed processing techniques are currently mature enough and can provide powerful computing means convenient for overcoming this string matching problem. In this book the authors present a short survey for well known sequential exact and approximate string searching algorithms. Further, the authors propose four text searching implementations onto general purpose parallel computer like a cluster of heterogeneous workstations using MPI message passing library. The first three parallel implementations are based on the static and dynamic master-worker methods. Further, the authors propose a hybrid parallel implementation that combines the advantages of static and dynamic parallel methods in order to reduce the load imbalance and communication overhead. Moreover, the authors present linear processor array architectures for flexible exact and approximate string matching. These architectures are based on parallel realisation of dynamic programming...

Reviews

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-- ***Dr. Freddie Greenholt Jr.***