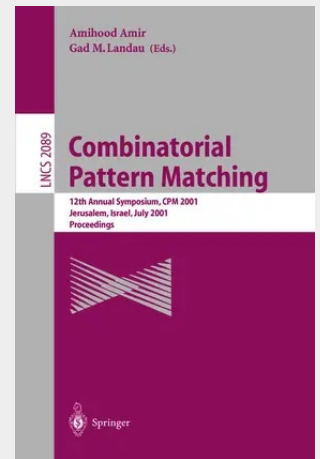


Combinatorial Pattern Matching

12th Annual Symposium, CPM 2001 Jerusalem, Israel, July 1-4, 2001 Proceedings

The papers contained in this volume were presented at the 12th Annual Symposium on Combinatorial Pattern Matching, held July 1-4, 2001 at the Dan Panorama Hotel in Jerusalem, Israel. They were selected from 35 abstracts submitted in response to the call for papers. In addition, there were invited lectures by Aviezri Fraenkel (Weizmann Institute of Science), Zvi Galil (Columbia), Rao Kosaraju (Johns Hopkins University), and Uzi Vishkin (Technion and U. Ma-land). This year the call for papers invited short (poster) presentations. They also appear in the proceedings. Combinatorial Pattern Matching (CPM) addresses issues of searching and matching strings and more complicated patterns such as trees, regular expressions, graphs, pointsets, and arrays, in various formats. The goal is to derive non-trivial combinatorial properties of such structures and to exploit these properties in order to achieve superior performance for the corresponding computational problems. On the other hand, an important aim is to analyze and pinpoint the properties and conditions under which searches can not be performed efficiently. Over the past decade a steady flow of high quality research on this subject has changed a sparse set of isolated results into a full-fledged area of algorithmics. This area is continuing to grow even further due to the increasing demand for speed and efficiency that stems from important applications such as the World Wide Web, computational biology, computer vision, and multimedia systems. These involve requirements for information retrieval in heterogeneous databases, data compression, and pattern recognition. The objective of the annual CPM gathering is to provide an international forum for the presentation of research results in combinatorial pattern matching and related applications.

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