

Combinatorial Pattern Matching: 20th Annual Symposium, CPM 2009 Lille, France, June 22-24, 2009 Proceedings



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(Quinton Balistreri)

COMBINATORIAL PATTERN MATCHING: 20TH ANNUAL SYMPOSIUM, CPM 2009 LILLE, FRANCE, JUNE 22-24, 2009 PROCEEDINGS



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Springer. Paperback. Book Condition: New. Paperback. 370 pages. Dimensions: 9.2in. x 6.1in. x 0.8in. It is our great pleasure to introduce the proceedings of the 20th anniversary edition of the Annual Symposium on Combinatorial Pattern Matching (CPM). The meeting was held in Lille, France, hosted by the Laboratoire d'Informatique Fondamentale de Lille (LIFL) aliated with the Universit e de Lille 1 and the French Centre National de Recherche Scientifique (CNRS), as well as by INRIA Lille - Nord Europe. Started in 1990 as a summer school with about 30 invited participants, CPM quickly evolved into a representative annual international conference. Principally motivated by combinatorial algorithms for search problems in strings (texts, sequences), the scope of CPM extended to more complex data structures such as trees, graphs, two-dimensional arrays, or set of points. Those studies resulted in a rich collection of algorithmic techniques and data structures, making bridges to other parts of the theory of discrete algorithms and algorithm engineering. Today, the area of combinatorial pattern matching is a well-identified active subfield of algorithmic research. Importantly, this development has been fertilized by a number of major application areas providing direct motivations and fruitful feedback to the CPM problematics. Those applications include data compression, computational biology, Internet search, data mining, information retrieval, coding, natural language processing, pattern recognition, music analysis, and others. On the one hand, all these areas make use of combinatorial pattern matching techniques and, on the other hand, raise new pattern matching problems. For example, the fast progress in computational molecular biology, triggered in the 1990s by the availability of mass genomic data, considerably influenced the combinatorial pattern matching field: as an illustration, about one-third of the papers presented in this volume deal with problems related to bioinformatics applications. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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