

« Lothaire » project

<http://igm.univ-mlv.fr/~berstel/Lothaire/>



Combinatorics on words is a research subject with many developments in various branches of mathematics, like number theory, group theory or probability theory, and it appears frequently in problems issued from theoretical computer science, in relation with automata and formal languages.

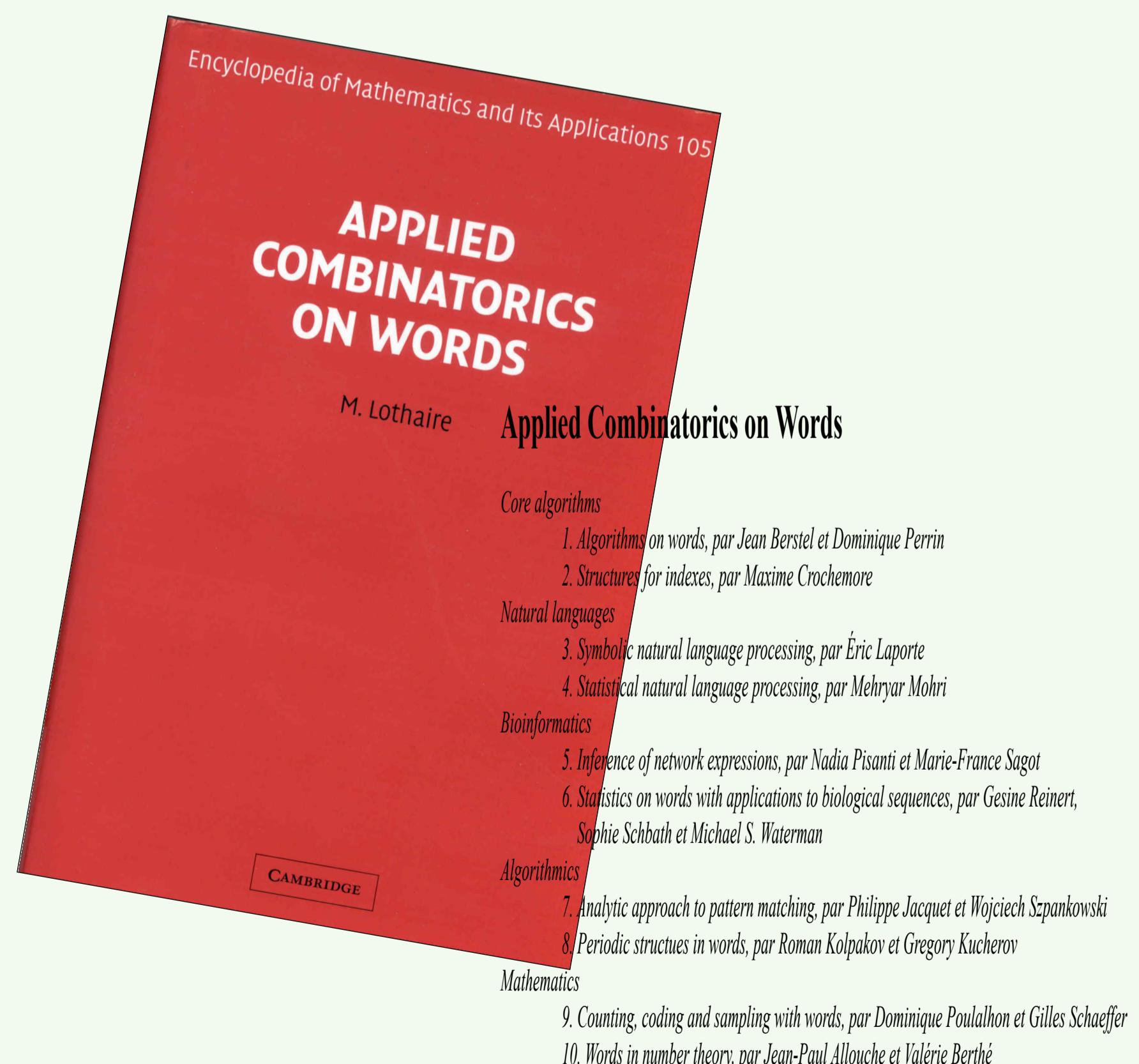
Combinatorics on words has many applications in mathematics, in data processing, linguistics, text compression, biology and physics.

The « Lothaire » project has the ambition to gather together and to publish, in a unified form, the basics and the advanced topics in combinatorics on words. « Lothaire » is a nom de plume for a group of researchers who cooperate on this project, initiated by M.-P. Schützenberger and developed under the editorial guidance of J. Berstel and D. Perrin.

Combinatorics on Words, which is the first volume of the series, has appeared in 1984, as the 17th volume of the Encyclopedia of Mathematics. It was reprinted in 1997 in the Cambridge Mathematics Library.

Algebraic Combinatorics on Words, the second volume of the series, focuses on more recent developments. It has appeared in 2002, at Cambridge University Press, and is available in paperback since 2010.

Applied Combinatorics on Words is devoted to applications, as the title indicates. It appeared in 2005, also at Cambridge University Press.



Contact: Jean.Berstel@univ-mlv.fr