Words

and

Automata

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Group

Seminar Announcement

Combinatorial algorithms for DNA libraries

Giuditta Franco, University of Verona

Thursday 20th March 2014, 3 p.m.
Room 7, Via Archirafi 34, 90123 Palermo

A recent trend in DNA computing is concerned with innovative procedures of interest for molecular biology. In fact, new bio-techniques may be designed as efficient combinatorial algorithms on biological strings. As an example of such an approach, a few DNA recombination algorithms and related experiments will be presented in this talk, based on a variant of the Polymerase Chain Reaction (called XPCR) technique, which is an efficient implementation tool of null context splicing rules. Algorithmic generation of DNA libraries as splicing languages will be discussed, together with the existence of few "recombination evidence strings". The talk will be as self-contained as possible in terms of both biological and formal language theoretical concepts; curiosity will be then the only requirement for attendance.

For furher information:

Gabriele Fici

T 091 238 91130

gabriele.fici@math.unipa.it

All interested people, in particular students, are invited to participate