

Words
and
Automata
Research
Group

Seminar Announcement

Pattern Matching on a Special Type of DAGs

Solon Pissis (CWI Amsterdam)

Monday November 28th, 2022, 12:00 a.m.

Room 7, Via Archirafi 34, 90123 Palermo

An elastic-degenerate string (EDS) is a sequence of n sets of strings of total length N . It has been introduced to represent compactly a pangenome: a collection of closely-related genomes that are meant to be analyzed together. An EDS can thus be seen as a special type of labeled directed acyclic graph (DAG). In this talk, I will show algorithms for pattern matching on an EDS. In particular I will show how to locate all 1-edit occurrences of a pattern of length m in an EDS in $\sim O(nm^2 + N)$ time.

This work has been recently presented at LATIN 2022.

For further information:

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