Words and Automata Research Group

d.mεi
matematica e informatica @ unipa

UNIVERSITÀ DEGLI STUDI DI PALERMO

Seminar Announcement

Computing Longest (Common) Lyndon Subsequence

Dominik Köppl (Tokyo Medical and Dental University)

Wednesday June 22nd, 2022, 12:00 a.m.

Room 7, Via Archirafi 34, 90123 Palermo

Given a string T with length n whose characters are drawn from an ordered alphabet of size σ, its longest Lyndon subsequence is a longest subsequence of T that is a Lyndon word. We propose algorithms for finding such a subsequence in $O(n^3)$ time with $O(n)$ space, or online in $O(n^3 \times σ)$ space and time. Our first result can be extended to find the longest common Lyndon subsequence of two strings of length n in $O(n^4 \times σ)$ time using $O(n^3)$ space

For further information:

Gabriele Fici

T 091 238 91130

gabriele.fici@unipa.it

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