



Università degli Studi di Palermo

Dipartimento di Matematica e Informatica

Words and Automata Research Group

SEMINAR ANNOUNCEMENT

Title: Jumping Finite Automata

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Thursday 9th May 2013, 3 p.m.

Room 7

Via Archirafi 34, 90123 Palermo

Abstract:

This talk discusses new versions of finite automata. They work like classical finite automata except that they read input words discontinuously—that is, after reading a symbol, they can jump over some symbols within the words and continue their computation from there, hence their name—jumping finite automata. The talk gives several results concerning jumping finite automata in terms of commonly investigated areas of automata theory, such as decidability and closure properties. Perhaps most importantly, it demonstrates differences between jumping finite automata and classical finite automata. In its conclusion, the talk formulates several open problems and suggests future investigation areas.

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