

Seminar Announcement

Regulated Pushdown Automata

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Thursday 7th July 2016, 3 p.m.

Room 7, Via Archirafi 34, 90123 Palermo

This talk continues with the topic opened during the author's previous talk entitled Regulated Grammars and Automata, given on July 22, 2014 (see <http://math.unipa.it/fici/WARG/seminario.html>). It defines regulated pushdown automata. Specifically, it investigates pushdown automata that regulate the use of their rules by control languages. It proves that this regulation has no effect on the power of pushdown automata if the control languages are regular. However, the pushdown automata regulated by linear control languages characterize the family of recursively enumerable languages. All these results are established in terms of acceptance by final state, acceptance by empty pushdown, and acceptance by final state and empty pushdown. In its conclusion, the talk discusses some open problems.

For further information:

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