

Automaton groups

Thibault Godin

In this talk, I will present automaton groups. The class of automaton groups--that is groups generated by functions defined using transducers-- has been studied since the late 70's as many very interesting groups arise from it. They are also very nice because the underlying automaton structure makes the group quite amenable to manipulations, as various decision problems are decidable. In this talk, I'll survey some group theoretical questions and explain how automaton groups can be used to solve them, and give some insight on this class of groups.

The talk will be more or less self-contained and won't require any previous knowledge in groups or automata theory.