

Decision procedures for propositional logic and equality

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Decision procedures for propositional logic and congruence closure play an important role in software and hardware verification. This talk will focus on Stalmarcks proof method for propositional logic. In contrast to the well known model checking techniques such as the utilization of BDDs, Stalmarcks proof method is able to handle larger formulas and also in some cases, faster. I will describe the theoretical ideas underlying Stalmarcks procedure and present some experimental results.

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