

The dominance rule in SAT solving

Neil Thapen

A SAT solver is an algorithm that tries to decide if a propositional CNF is satisfiable. If not, it should output a refutation of the CNF in a standard propositional proof system, as a witness to unsatisfiability. I will talk about an application of bounded arithmetic to compare two proof systems that have arisen in practice to play this role for a range of SAT solving algorithms. This is joint work with Leszek Kolodziejczyk.