Properties of Rule-Based Anti-Unification Algorithms

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Abstract The anti-unification problem is concerned with finding an expression that generalizes two input examples. Interesting generalizations are the least general ones. They inherit as many common features of the input examples as possible and uniformly represent their differences by variables. Such generalization problems arise in many areas of computer science and mathematics. An algorithm for constructing a least general generalization of two given input examples is called an anti-unification algorithm. In this talk we will discuss some properties of rule-based anti-unification algorithm that allow us to use them for solving the matching problems.