Theoretical Computer Science Seminar

Unification of Multisets with Multiple Labelled Multiset Variables

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Abstract. We look into the problem of unifying multisets containing (first-order) terms and multiple multiset variables. The variables are labelled, meaning that a unifier that places a term in a multiset variable M_i is different from another that places a term in a multiset variable M_j, for $i \neq j$. We describe a sound, complete, and terminating algorithm for computing the set of all possible unifiers, and analyse its complexity. We also prove an input pre-processing step that avoids the computation of less general unifiers.