On the complexity of Bounded Second-Order Unification and Stratified Context Unification

Title | On the complexity of Bounded Second-Order Unification and Stratified Context Unification
Publication Type | Journal Article
Year of Publication | 2011
Authors | Levy J [1], Schmidt-Schauss M [2], Villaret M [3]
Journal | Logic Journal of the IGPL
Volume | 19
Pagination | 763-789
Date Published | 2011
Keywords | Higher-Order Unification [4]

Abstract
Bounded Second-Order Unification is a decidable variant of undecidable Second-Order Unification. Stratified Context Unification is a decidable restriction of Context Unification, whose decidability is a long-standing open problem. This paper is a join of two separate previous, preliminary papers on NP-completeness of Bounded Second-Order Unification and Stratified Context Unification. It clarifies some omissions in these papers, joins the algorithmic parts that construct a minimal solution, and gives a clear account of a method of using singleton tree grammars for compression that may have potential usage for other algorithmic questions in related areas.

Source URL: https://www.iiia.csic.es/en/node/53996

Links