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Constraint logic programming for hedges: a semantic reconstruction. (English)
Zbl 1416.68031

Summary: We describe the semantics of CLP(H): constraint logic programming over hedges. Hedges are finite sequences of unranked terms, built over variadic function symbols and three kinds of variables: for terms, for hedges, and for function symbols. Constraints involve equations between unranked terms and atoms for regular hedge language membership. We give algebraic semantics of CLP(H) programs, define a sound, terminating, and incomplete constraint solver, and describe some fragments of constraints for which the solver returns a complete set of solutions.

For the entire collection see [Zbl 1291.68015].

MSC:
68N17 Logic programming
68Q55 Semantics in the theory of computing

Software:
Mathematica; XCentric

Full Text: DOI Link