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A framework for goal-directed bottom-up evaluation of functional logic programs. (English)

Zbl 0977.68580

Kuchen, Herbert (ed.) et al., Functional and logic programming. 5th international symposium, FLOPS 2001, Tokyo, Japan, March 7-9, 2001. Proceedings. Berlin: Springer. Lect. Notes Comput. Sci. 2024, 153-169 (2001).

Summary: In this paper we start the design of a functional-logic deductive database language. Given that most logic deductive languages consider bottom-up evaluation as operational mechanism, here we will focus on the development of an operational semantics based on bottom-up evaluation for functional logic languages. As in the logic paradigm, the bottom-up evaluation will consist in a magic transformation for a given program-query into a magic program-query for which the bottom-up evaluation will simulate the top-down one of the original program.

For the entire collection see [Zbl 0958.00038].

MSC:

68U99 Computing methodologies and applications
68N17 Logic programming
68N18 Functional programming and lambda calculus
68P15 Database theory

Cited in 2 Documents

Software:

SICStus; BABEL; Kernel-LEAF

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