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1 € Guarded Quantification in Least Fixed Point Logic

McColm, Gregory;

Journal of Logic, Language and Information; 0925-8531;
200424 ; 13卷1 期 ; 61-110 页

文摘:

We develop a variant of Least Fixed Point logic based on First Order logic with a relaxed version of guarded quantification. We develop a Game Theoretic Semantics of this logic, and find that under reasonable conditions, guarding quantification does not reduce the expressibility of Least Fixed Point logic. But we also find that the guarded version of a least fixed point algorithm may have a greater time complexity than the unguarded version, by a linear factor.

2 € Instructions for Authors

Journal of Logic, Language and Information; 0925-8531;
200424 ; 13卷1 期 ; 111-116 页

无文摘

3 € Residuation, Structural Rules and Context Freeness

Jäger, Gerhard;

Journal of Logic, Language and Information; 0925-8531;
200424 ; 13卷1 期 ; 47-59 页

文摘:

The article presents proofs of the context freeness of a family of type logical grammars, namely all grammars that are based on a uni- or multimodal logic of pure residuation, possibly enriched with the structural rules of Permutation and Expansion for binary modes.

4 € Similarity Relations and the Preservation of Solidity

Hazen, A. P. ; Humberstone, Lloyd;

Journal of Logic, Language and Information; 0925-8531;
200424 ; 13卷1 期 ; 25-46 页

文摘:

The partitions of a given set stand in a well known one-to-one correspondence with the equivalence relations on that set. We ask whether anything analogous to partitions can be found which correspond in a like manner to the similarity relations (reflexive,

symmetric relations) on a set, and show that (what we call) decompositions – of a certain kind – play this role. A key ingredient in the discussion is a kind of closure relation (analogous to the consequence relations considered in formal logic) having nothing especially to do with the similarity issue, and we devote a final section to highlighting some of its properties.

☞ Two Natural Deduction Systems for Hybrid Logic: A Comparison *Braüner, Torben*;
Journal of Logic, Language and Information; 0925-8531;
200424 ; 13卷1 期 ; 1-23 页

文摘:

In this paper two different natural deduction systems for hybrid logic are compared and contrasted. One of the systems was originally given by the author of the present paper whereas the other system under consideration is a modified version of a natural deduction system given by Jerry Seligman. We give translations in both directions between the systems, and moreover, we devise a set of reduction rules for the latter system by translation of already known reduction rules for the former system.

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