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Parallel reductions in λ -calculus. (English) Zbl 0661.03008
J. Symb. Comput. 7, No. 2, 113-123 (1989).

The notion of parallel reduction is extracted from the Tait-Martin-Löf proof of the Church-Rosser theorem (for β -reduction). We define parallel β -, η - and β η -reduction by induction, and use them to give simple proofs of some fundamental theorems in λ -calculus; the normal reduction theorem for β -reduction, that for β η -reduction, the postponement theorem of η -reduction (in β η -reduction), and some others.

MSC:

03B40 Combinatory logic and lambda calculus

Cited in **1** Review
Cited in **11** Documents

Keywords:

parallel reduction; λ -calculus

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References:

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- [2] Klop, J.W., ()
- [3] Levy, J.J., An algebraic interpretation of the λ - β -K calculus and a labelled λ -calculus, Springer lec. notes comp., 37, 147-165, (1975)

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