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**Confluency and strong normalizability of call-by-value  $\lambda\mu$ -calculus.** (English) Zbl 1018.68016  
Theor. Comput. Sci. 290, No. 1, 429-463 (2003).

**Summary:** This paper proves the confluency and the strong normalizability of the call-by-value  $\lambda\mu$ -calculus with the domain-free style. The confluency of the system is proved by improving the parallel reduction method of Baba et al. The strong normalizability is proved by using the modified CPS-translation, which preserves the typability and the reduction relation. This paper defines the class of the reductions whose strictness is preserved by the modified CPS-translation to prove the strong normalizability.

**MSC:**

**68N18** Functional programming and lambda calculus

Cited in **3** Documents

**Keywords:**

call-by-value -calculus; domain-free type system; confluency; strong normalizability; CPS-translation

**Software:**

Automath

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