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Confluence of extensional and non-extensional λ -calculi with explicit substitutions. (English)

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Summary: This paper studies confluence of extensional and non-extensional λ -calculi with explicit substitutions, where extensionality is interpreted by η -expansion. For that, we propose a scheme for explicit substitutions which describes those abstract properties that are sufficient to guarantee confluence. Our method makes it possible to treat at the same time many well-known calculi such as λ_σ , $\lambda_{\sigma\uparrow}$, λ_φ , λ_s , λ_v , λ_f , λ_d and λ_{dn} .

MSC:

68N18 Functional programming and lambda calculus

Cited in **7** Documents

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