Problem #78 (Solved !)

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**Summary:** Is there a calculus of explicit substitution that is both confluent and preserves termination?

There are confluent calculi of explicit substitutions, but these do not preserve termination (strong normalization) [CHL92, Mel95], and there are calculi that are not confluent on open terms, but which do preserve termination [LRD94]. Is there a calculus of explicit substitution that is both confluent and preserves termination?

**Remark**

The calculus presented in [Mu n96] enjoys both properties. This has led to Problem #88.
Bibliography


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