

Certification of Confluence Proofs using CeTA

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From termination to confluence

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- ⇒ first step towards pure confluence certification was done

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 - Newman's lemma (trivial)
 - (several termination techniques, with Christian Sternagel)
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 - not (yet): parallel closed (expect tedious reasoning on measure of parallel forks)
 - non-joinable forks
 - use idea from CSI: tcap as detection criterion for non-joinability (formalization trivial, if tcap is available)

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- IsaFoR contains executable functions which guarantee correct application of theorems
(check joinability, ...)

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- just try it

<http://cl-informatik.uibk.ac.at/software/ceta/>