Abstract

Persistence of Termination for Non-Overlapping Term Rewriting Systems

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A property P is called persistent if for any many-sorted term rewriting system $\mathcal{R}$, $\mathcal{R}$ has the property P if and only if term rewriting system $\Theta(\mathcal{R})$, which results from $\mathcal{R}$ by omitting its sort information, has the property P. In this presentation, we show that termination is persistent for non-overlapping term rewriting systems and we give the example as application of this result. Furthermore we obtain that completeness is persistent for non-overlapping term rewriting systems.

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