Relative Normalization in Higher-Order Rewriting Systems

John Glauert
School of Information Systems, UEA
Norwich NR4 7TJ England
J.Glauert@uea.ac.uk

Zurab Khasidashvili
NTT Basic Research Laboratories
Atsugi, Kanagawa 243-01 Japan
zurab@theory.brl.ntt.jp *

Abstract

The Abstract.

1 Picture

Consider an OTRS $R = \{f(x) \to g(x, h(x)),\, h(x) \to c,\, a \to b\}$ and a term (redex) $u = f(a)$:

$$
\begin{tikzcd}
f(a) \arrow[rr, "f"] \arrow[dd, "a"'] & & g(a,h(a)) \arrow[rr, "f"] \arrow[dl, "a"'] \arrow[dr, "a"] & & g(a,c) \arrow[dd, "a"] \\
& g(b,h(a)) \arrow[dr, "a"'] \arrow[drrr, "h"] & & g(a,h(b)) \arrow[ur, "h"] \arrow[dl, "a"] & \\
f(b) \arrow[rr, "f"'] & & g(b,h(b)) \arrow[rr, "h"'] & & g(b,c)
\end{tikzcd}
$$

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