

Erratum for:

AM Pitts, *Nominal logic, a first order theory of names and binding*
Information & Computation 86(2003)165–193

Page 169: the last line of the proof in Example 1 should begin “ $\lambda a''.t'''$ ”. [Thanks to Christine Tasson and Christian Urban for pointing this out.]

Page 180: equation (40) should read

$$\begin{aligned} (\forall t : Term)(\forall a : Var)(\forall a' : Var)(\forall t' : Term) \text{subst}(t, a, \text{lam}(a', t')) \\ = \text{lam}(a', \text{subst}(t, a, t')) \end{aligned} \quad (40)$$

[Thanks to James Cheney for pointing this out.]

Page 184: equation (59) should read

$$\begin{aligned} \text{Subst}(t, a, t', t'') \Leftrightarrow \\ t' = \text{var}(a) \wedge t'' = t \\ \vee (\exists a' : Var) t' = \text{var}(a') \wedge \neg a' = a \wedge t'' = \text{var}(a') \\ \vee (\exists t'_1, t''_1, t'_2, t''_2 : Term) t' = \text{app}(t'_1, t'_2) \wedge t'' = \text{app}(t''_1, t''_2) \wedge \\ \text{Subst}(t, a, t'_1, t''_1) \wedge \text{Subst}(t, a, t'_2, t''_2) \\ \vee (\exists a' : Var)(\exists t'_1, t''_1 : Term) t' = \text{lam}(a'.t'_1) \wedge t'' = \text{lam}(a'.t''_1) \\ \wedge a' \# a \wedge a' \# t \wedge \text{Subst}(t, a, t'_1, t''_1) \end{aligned} \quad (59)$$

[Thanks to Ondrej Rysavy for pointing this out.]

Page 191: axiom (A1) should read

$$\begin{aligned} (\forall a, a' : A)(\forall x, x' : S) a.x = a'.x' \Leftrightarrow \\ (a = a' \wedge x = x') \vee (a' \# x \wedge x' = (a a') \cdot x) \end{aligned} \quad (\mathbf{A1})$$

[Thanks to Christian Urban for pointing this out.]