

12, -6. where *should be*: which

57, In Table 2 Rule R5: $(\alpha + \beta) \times (\alpha + \gamma)$ *should be*: $(\alpha \times \beta) + (\alpha \times \gamma)$

61, -10,-11,-12. *Replace*: (*Step*) We assume ... two generic values m and n . *by*:

(*Step*) We have to show that:

$$\forall m \in N, (\forall n \in N, s(m+n)=m+s(n)) \rightarrow (\forall n \in N, s(s(m)+n)=s(m)+s(n)).$$

Let us consider a generic value m . We assume that $\forall n \in N, s(m+n) = m+s(n)$ and we have to show that $\forall n \in N, s(s(m)+n) = s(m)+s(n)$.

Let us consider a generic value n .

70, +2, +3. *Erase* : $\subseteq 0 L(A) L(B) L(B) \subseteq$ {by hypothesis}

70, -17. $0b \subseteq L(B)$ *should be*: $0b \subseteq L(A)$

88, -12,-11,-10,-9. d *should be*: d_j

122, +1. Fact 2.3 is correct, but the proof considers only the case when the command c is **skip**

135, +1,+2,+3,+10. wp *should be*: A

136. In this page all occurrences of wp *should be*: A

137, -9,-10. The two occurrences of wp *should be*: A

144, -12,-13. equation e , where $a_1, a_2 \in \mathbf{Aexp}$ *should be*: equation e of the form $a_1 = a_2$, where $a_1, a_2 \in \mathbf{Aexp}$, holds in Integer Arithmetic

163. Rule (OG6). In the premise: $\{B2\} c_2 \{C2\}$ *should be*: $\{A2\} c_2 \{B2\}$

182, +18. $\langle_{lex} \subseteq N^{\geq 0} \times N^{\geq 0}$ *should be*: $\langle_{lex} \subseteq (N^{\geq 0} \times N^{\geq 0}) \times (N^{\geq 0} \times N^{\geq 0})$

182, -15. $\delta(m, n) = let \ell \Leftarrow f(m, n-1). f(m-1, \ell)$ *should be*: $\delta(m, n) = let \ell \Leftarrow \delta(m, n-1). \delta(m-1, \ell)$

183, +2 and +22. *Cond*((*should be*: *Cond*(

189, -7. the the *should be*: the

195, +15. *leftmost computation rule* *should be*: *free-argument computation rule*

203, 5. *Twice* **fst**(t) $\rightarrow c_2$ *should be*: **snd**(t) $\rightarrow c_2$

204, -4. the the *should be*: the

224. Equation (EF) holds also if $down(\llbracket F \rrbracket) = \lambda X. \perp \in [V_\tau \rightarrow (V_\tau)_\perp]$.

273, -8. $P' \sim q'$ *should be*: $p' \sim q'$

273, -5. the the *should be*: the

281, Figure 2 (δ) and -4 and -3. The two lines should be:

(δ) the assertion $\mu X. (\langle a \rangle \mathbf{true} \vee [\cdot] X)$ means that for every path π starting from the root, we have that: *either* (i) π is finite, *or* (ii) π has an arc with label a , that is, on π there is a process which can do an a action (see Figure 2 (δ)) (informally, in the tree of paths there is a frontier whose nodes are either leaf nodes or nodes on which an action a can be done).

Figure 2 (δ) should be improved by making some of the nodes of the frontier to be leaf nodes. Thus, those nodes cannot do an a action.

286. In the proof of $\mathcal{P}, P_1 \vdash \nu X. (\emptyset \vee \langle a \rangle X)$ the five lines the form $\dots \vdash \{\dots\} \vee \dots$ or $\dots \vdash (\{\dots\} \vee \dots) \dots$ (that is, the lines where a set occurs immediately to the right of \vdash) should be erased.

287. In the proof of $\mathcal{Q}, Q_1 \vdash \nu X. (\emptyset \vee \langle a \rangle X)$ the four lines the form $\dots \vdash \{\dots\} \vee \dots$ (that is, the lines where a set occurs immediately to the right of \vdash) should be erased.

288. In the proof of $\mathcal{Q}, Q_1 \vdash \mu X. \langle a \rangle X \mapsto^* \mathbf{b}$ the four lines the form $\dots \vdash \{\dots\} \vee \dots$ (that is, the lines where a set occurs immediately to the right of \vdash) should be erased.

292, -20. In the definition of **prop B1**, replace the six occurrences of $[\dots]$ by $[[\dots]]$.

297, -8 and -9. **Set** should be **Defs** (twice).

313, -12. The proof of Proposition 5.4 (ii) should be as follows.

(ii) Take an ω -chain $d_0 \sqsubseteq d_1 \sqsubseteq \dots$ in D . Assume $\bigsqcup_{m \in \omega} d_m \in \bigcup_{i \in I} D_i$. We have to show that there exists $n \in \omega$ such that $d_n \in \bigcup_{i \in I} D_i$. Indeed, since $\bigsqcup_{m \in \omega} d_m \in \bigcup_{i \in I} D_i$ we have that there exists $k \in I$ such that $\bigsqcup_{m \in \omega} d_m \in D_k$. Since D_k is open, there exists $n \in \omega$ such that $d_n \in D_k$. Thus, there exists $n \in \omega$ such that $d_n \in \bigcup_{i \in I} D_i$.

314, +1. The proof of Proposition 5.6 (ii) should be as follows.

(ii) Take an ω -chain $d_0 \sqsubseteq d_1 \sqsubseteq \dots$ in D . Assume $\bigsqcup_{m \in \omega} d_m \in \bigcap_{i \in F} D_i$. We have to show that there exists $n \in \omega$ such that $d_n \in \bigcap_{i \in F} D_i$. Indeed, since $\bigsqcup_{m \in \omega} d_m \in \bigcap_{i \in F} D_i$ we have that for all $k \in F$, $\bigsqcup_{m \in \omega} d_m \in D_k$. Now, by definition of an open set, we have that for all $k \in F$, there exists $n_k \in \omega$ such that $d_{n_k} \in D_k$. Let us consider the maximum value, call it n_{max} , in the set $\{n_k \mid k \in F\}$. We have that $d_{n_{max}} \in \bigcap_{i \in F} D_i$, because for all $k \in F$, D_k is an open set (and thus, upward closed). Therefore, Condition (ii) of Definition 5.1 holds and the proof is completed.