

List of Errata for
Andrew Pitts' chapter for
D. Sangorgi and J. Rutten (eds),
Advanced Topics in Bisimulation and Coinduction,
Cambridge Tracts in Theoretical Computer Science
No. 52, chapter 5, pages 197–232
(© 2011 CUP)

Lemma 5.5.1: Delete the word “transitive” from part (iii) of the lemma.

[Thanks to Naoki Kobayashi.]

Proof of Lemma 5.5.3: Replace “using Lemma 5.5.1(iii)” by “using Lemma 5.5.1(ii)”.

[Thanks to Naoki Kobayashi.]

Proof of Theorem 5.6.5: In the second paragraph of the proof, replace the three occurrences of $=_v$ by \leq_v :

‘To prove the converse of (5.34), first note that it suffices to show that \leq_v restricted to closed λ -terms is an applicative simulation and hence contained in \lesssim_v . For then, if we have $\bar{x} \vdash e_1 \leq_v e_2$, by repeated use of the congruence property (Com2) (which we know holds of \leq_v from Exercise 5.6.3), we get $\emptyset \vdash \lambda\bar{x}.e_1 \leq_v \lambda\bar{x}.e_2$ and hence $\lambda\bar{x}.e_1 \lesssim_v \lambda\bar{x}.e_2$; but then we can use Exercise 5.3.7 to deduce that $\bar{x} \vdash e_1 \lesssim_v e_2$.’

[Thanks to Taro Sekiyama.]