Errata to *Abstraction-based Deductive-Algorithmic Verification of Reactive Systems*

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All known typos are fixed in the latest electronic version available at the author's web page,

`http://theory.stanford.edu/~uribe`

The technical report (Computer Science Department, STAN-CS-TR-99-1618, March 1999) fixes some typos in a previous "beta version." In case you have that version, those typos are also listed below. Please send corrections to `uribe@cs.stanford.edu`.

Technical Report:

1. Page 49, caption of Figure 3.6: $f_1 \vee^{\mathcal{A}} f_2$ should be $f_1 \wedge^{\mathcal{A}} f_2$. (This is the first instance of a certain "algebraic dyslexia" that makes up for most of the bugs.)

   This also applies to the corresponding entry in the List of Figures, p. xiv.

2. p. 33: In the definition of $\gamma(a)$,

   $$\gamma(a) = \bigcup \{c \in \Sigma_{\mathcal{C}} \mid \alpha(c) \preceq a\}$$

   the "$\in$" should be changed to "$\subseteq$".

3. p. 33 (the following sentence):

   "If $\gamma(\alpha(S)) = S$ for all $S \in \mathcal{P}(\Sigma_{\mathcal{C}})$, then ..." should read
   "If $\alpha(\gamma(a)) = a$ for all $a \in \Sigma_{\mathcal{A}}$, then ..."
   (see also the discussion of Galois insertions in Page 48).

4. p. 35: In item III of Def. 3.2.5, it is implicitly assumed that $\gamma(\varphi^{\mathcal{A}}) \in \mathcal{P}$.

5. p. 53: "least upper bound (that is, the conjunction)" should be
   "greatest lower bound (that is, the conjunction)"

   In the "information order," $\mathit{false}^{\mathcal{A}}$ (too much information) is at the top and $\mathit{true}^{\mathcal{A}}$ (no information) is at the bottom; but in the subset order, which the abstract lattice follows, $\mathit{false}^{\mathcal{A}}$ (the empty set) is at the bottom, and $\mathit{true}^{\mathcal{A}}$ (all states) is at the top.

Earlier Beta Version:

(These errors are already fixed in the technical report.)

1. p. 42: In Lemma 3.4.6, $\gamma(\Theta_{\mathcal{A}}) \rightarrow \Theta$ should be $\Theta \rightarrow \gamma(\Theta_{\mathcal{A}})$.

2. p. 112: $p \rightarrow \mu(n)$ should be $\mu(n) \rightarrow p$.

3. The discussion of CTL* fairness in p. 45 has been clarified somewhat.