Errata

page 2, beginning of Sect. 1.1:

replace "A is a set" by "A is a non-empty set"

page 8, "Truth Value of a Formula in $\mathcal{A}$":

replace "Σ-formulas" by "Π-formulas"

page 20, before Lemma 2.9:

replace "decision literals in $M\ L^{\mathrm{d}}\ M'$" by "decision literals in $M'\ L^{\mathrm{d}}\ M''$"

page 24, Sect. 2.7:

replace every $p^d_{i,j}$ by $P^d_{i,j}$

page 34, "Value of a Term in $\mathcal{A}$ with Respect to β":

replace "$a \in \mathcal{A}$" by "$a \in U_{\mathcal{A}}$"

page 36, Lemma 3.3:

replace "$\beta \circ \sigma : X \to \mathcal{A}$" by "$\beta \circ \sigma : X \to U_{\mathcal{A}}$"

page 42, beginning of Sect 3.6:

replace "A clause set that is" by "Skolem functions that are"

page 42, "Miniscoping":

add an additional rule

$$Qx\, F \quad \Rightarrow_{MS} \quad F \quad \text{if } x \text{ does not occur freely in } F$$

(this rule is only needed if we start with a formula in which x does not occur at all; otherwise the remaining rules are sufficient)

page 58, "Rule-Based Naive Standard Unification":

in the fourth rule, replace "$E\{t \mapsto x\}$" by "$E\{x \mapsto t\}$"

page 58/59, Theorem 3.26, Proof:

replace the first item by

- $\Rightarrow_{SU}$ is Noetherian. A suitable lexicographic ordering on the multisets E (with $\perp$ minimal) shows this. Compare in this order:
  (1) the number of variables that occur in E below a function or predicate symbol, or on the right-hand side of an equation, or at least twice;
  (2) the multiset of the sizes (numbers of symbols) of all equations in E;
  (3) the number of non-variable left-hand sides of equations in E.

page 78–82:

everywhere in Sect. 3.15, replace the notation

$$[t_1/x_1, \ldots, t_n/x_n]$$

by

$$\{x_1 \mapsto t_1, \ldots, x_n \mapsto t_n\}$$

page 122:

in Thm. 6.1, Proof, Case 2, replace "$\pi(t_i) \to \pi(u_i)$" by "$\pi(t_i) \to_R^* \pi(u_i)$"