Errata

for thesis

Meta-Languages and Semantics for Equation-Based Modeling and Simulation

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• Page 66, first paragraph: “different form of pattern matching” should be “different form of pattern matching on type tags at run-time”.

• Page 66, last paragraph of section “Overloading”: Sentence “Modelica is currently not supporting...” should be “Modelica is from version 3.1 (released May 2009) supporting overloading of operators.”

• Page 78, Section 6.2.1: The term name means a sequence of one or more identifiers separated with dots, e.g., x · y · z, M · x, or just x.

• Page 79, Figure 6.2: Inum is a literal real number.

• Page 97, paragraph before 7.1.1: Value 52.10 should be 71.

• Page 106, the line before Definition 7.2.3: e1 should be e.

• Page 131, second example: op e e2 should be op e1 e2.

• Page 143, last paragraph: (L-APPM2) should be (L-APPM5).

• Page 150, proof of Lemma 10.7 (Substitution): “derivation of Γ ⊢ e : τ” should be “derivation of the statement Γ , y : τ ⊢ e : τ’”.

• Page 157, rule (RTC-REFL): e | U →* e’ | U’ should be e | U →* e | U.

• Page 158, missing case \( FV((τ_2 \leftarrow τ_1)e) = FV(e) \) of the definition of free variables and case \( [x \mapsto e](τ_2 \leftarrow τ_1)e_1 = (τ_2 \leftarrow τ_1)([x \mapsto e]e_1) \) of the definition of substitution.

• Page 171, first paragraph: “component M” should be “component SC”.

• Page 194, end of second paragraph: Sentence “We should again note...” should be removed.

• Page 196: Performance tests were executed on a MacBook, 2.2 GHz Intel Core 2 Duo, 4 GB 667 MHz DDR2 SDRAM running Mac OS X version 10.5.8.

• Page 217. Missing operator precedence and associativity. All operators are left associative, except "+" and "+." that are right associative. Operators "U-" and "U-." represent the unary minus for "-" and "-." respectively. Terminal with is used to resolve an ambiguity in the grammar. Operators are listed (comma separated) in precedence order (highest to lowest). Operators within parentheses have the same precedence: ( "U-" "U-." "--" "--." ), ( "^" "^." ), "mod",
Page 220, production rule pat_op: Text “pat_op OP pat_op” should be “pat_op operator pat_op”.

Page 223, first item in comments: lcase(v, x1, x1, e1, e2) should be 1case(v, x1, x1, e1, e2).

Page 250, item [42]: “D. E. Comer” should be “Peter J. Denning, Douglas E. Comer”

Page 253, item [80]: “Gilles Kah” should be “Niel D. Jones, Peter Sestoft, and Harald Søndergaard”.

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