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: lnum 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: e_1 should be e.
- Page 131, second example: o p e e_2 should be o p e_1 e_2.
- 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 ← τ_1⟩ e) = FV(e)” of the definition of free variables and case “[x ↦ e]⟨τ_2 ← τ_1⟩ e_1 = ⟨τ_2 ← τ_1⟩([x ↦ 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, x_1, x_2, e_1, e_2) should be lcase(v, x_1, x_2, e_1, e_2).

• 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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