Problem Solving in Automata, Languages, and Complexity
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Errata

Page 3, line 19: “in A” should read “of A”
Page 4, Figure 1.1: “Subraction” should read “Subtraction”
Page 39, line 11 from the bottom: “acctping” should read “accepting”
Page 42, line 12: “DFA” should read “NFA”
Page 46, line 11: “Sigma” should read “Σ”
Page 47, Figure 2.29(b): The loop from state \{0, 1, 3, 4, 5\} to itself should have a label 0.
Page 53, line 5: “the fourth from the left symbols” should read “the fourth symbol from the left”
Page 59, line −6: “mehtod” should read “method”
Page 60, line 6 from the bottom: The formula for \(f(L)\) should read
\[
f(L) = 0(0 + 1)^*1 + (0 + 1)^*10(0 + 1)^*.
\]
Page 62, line 14: “product DFA” should read “product NFA”
Page 76, Figure 2.49: States \{2, 3\} and \{5\} should be final states (double circled).
Page 79, line 10: “Index(L)” should read “Index(R_L)”
Page 82, Figure 2.55: The caption should read “The path \((q_0, \ldots, q_1, \ldots, q_i, \ldots, q_2, \ldots, q_f)\)”
Page 88, line −12: “\(a_1a_2\cdots a_n \in A\)” should read “\(a_1a_2\cdots a_n \in A\)”
Page 99, lines 13 and 14 from the bottom: Both occurrences of “\(#a(x)\)” should be changed to “\(#a(x)\)”
Page 101, line 2: “\(#_b(x) = 2\#_a(x) + 3\)” should read “\(#_b(x) = 2\#_a(x) - 3\)”
Page 106, line 9: “\(R = \)” should read “\(R' = \)”
Page 115, line 5: The rule (i) should read “The operators \(*\) and \(\div\) have higher preference over \(+\) and \(−\).”
Page 133, line −4: “Proof” should read “Solution”
Page 163, Figure 4.2: The loop from state \(s\) to itself should be removed.
Page 211, line 4: “\(i = 1\)” should read “\(i := 1\)”
Page 212, line 6 from the bottom: “f(n1, . . . , nk)” should read “τ1(n1, . . . , nk)”
Page 228, line 14: Add, at the end of the paragraph, “We write φn to denote φ1n for n ≥ 0.”
Page 229, lines 15 and 16 from the bottom: The whole paragraph should read “If it is not legal, the machine U halts in a state other than h (i.e., it rejects the input).”
Page 233, line 8: “Example 4.37” should read “Example 4.39”
Page 247, line 22: “f” should read “g”
Page 247, line 12 from the bottom: “recursive” should read “recursive”
Page 248, lines 8 and 9 from the bottom: Both occurrences of sA should be changed to σA, and both sB should be changed to σB.
Page 249, line 11: “read(yn);” should read “read(yn);”
Page 270, line 10: “(5.2)” should read “(5.3)”
Page 270, line 12: “(5.3)” should read “(5.2)”
Page 322, line 8: “accepted by a 2-stack PDA” should read “accepted by a 2-stack PDA with the linear size-bound on its stack”
Page 333, line 8: “n × n” should read “n × m”
Page 344, line 22: “A ∪ B ∪ c” should read “A ∪ B ∪ C”

Updated March 30, 2004