ERRATA in “Introduction to Discrete Event Systems”
by Cassandras & Lafortune

Errata in Second Printing (of November 2000)

- P. 81: the statement that coaccessibility of state $x$ means that there is a string in $L_m(G)$ that goes through $x$ implicitly assumes that $G$ is accessible.
- P. 117: it is implicitly assumed in the discussion on that page that the system $G$ is live in the sense that are no deadlock states (i.e., any trace in $L(G)$ can always be extended to another trace in $L(G)$).
- P. 125: the equality in the statement of problem 2.17 (a) is up to a renaming of the states.
- P. 133: “Corner” should read “Cormen” in the Miscellaneous references. (Our apologies to Professor Cormen.)
- P. 251: line 2, the second state should read $[0, 0, 2, 1]$.
- P. 312: in the figure in problem 5.1, the state on the bottom right should be called $x_2$, not $x_1$.
- P. 371: the labeling of the states in figure 7.1 should be interchanged: 1 on left and 0 on right.
- P. 374: the labeling of the states in figure 7.3 should be interchanged: 0 on left and 1 on right.

Errata in First Printing

- P. 58: in the statement of problem 1.3 (d), replace “states for which” by instances in (c) where.
- P. 122: in the statement of problem 2.2, delete “and assume that $L_1$ does not contain the empty string”.
- P. 122: in the statement of problem 2.4, delete “= $\overline{M}$”. (The problem is more interesting if $M$ is not prefix-closed!)
- P. 127: state 3 in figure 2.35 should be marked.
- P. 128: in the statement of problem 2.30, delete the word “nondeterministic”.
- P. 160: in the Proposition, ↑ should read ↑ $C$.

1The authors thank the readers who pointed out errors/typos. Please continue to send feedback!
• P. 161: in the middle of the page, it should read and the supremality of $K^\uparrow C$ (C missing).

• P. 163: in the next to last paragraph, it should read If we obtain $L^\uparrow C$ (C missing).

• P. 166: in the next to last paragraph, it should read We shall not present a formal proof of the above formula for $K^\uparrow C$ (not $\downarrow C$).

• P. 177: in the equation for $Y_i^\uparrow$, $\Sigma_{uc}^r$ should read $E_{uc}$.

• P. 187: in the middle of the page, it should read abbreviated as if in Fig. 2.15 (not jf).

• P. 195: in line -7, the word “uncontrollable” should read controllable.

• P. 207: the last equation on that page should read: $K_{i+1} = (K_i)^{\uparrow N} \cap K$.

• P. 214: the equation for $S_i(s)$ in the middle of the page has an extra “(” preceding $E_{i,uc}$.

• P. 219: in the statement of problem 3.13, all $\uparrow$ should read $\uparrow C$ and all $\downarrow$ should read $\downarrow C$.

• P. 233: in line 11, “[0, 3]” should read [0, 2].

• P. 252: in step 2.2.1, $x'(p_i)$ should read $x'(p_i)$.

• P. 271: in problem 4.16, take $x_0 = [k \ 0 \ 0 \ 0]$.

• P. 279: in figure 5.2, the residual lifetime of event $\alpha$ at time $t_1$ is $\nu_{\alpha,2}$, not $\nu_{\alpha,1}$.

• P. 340: in the last equation, LHS, $N_2$ should read $N^2$.

• P. 801: the $n$-th moment of a random variable $X$ is defined as $E[X^n]$ (not $E[X_n]$).

• P. 801: in (I.31), $E[X_2]$ should read $E[X^2]$.

• P. 802: in (I.34), $E[X_2]$ should read $E[X^2]$ and $x_2$ should read $x^2$. 