Errata for “Introduction to the Mathematical Theory of Control”
by A. Bressan and B. Piccoli, AIMS series on Applied Mathematics, Vol. 2

CHAPTER 2
p. 17. In (2.12), the second integral should be $\int_{t_0}^t \beta(s) \exp \left( \int_s^t \alpha(\sigma) \, d\sigma \right) \, ds$.

p. 33, Problem 2.9. The equation of the linear pendulum is $\ddot{\theta} + \theta = u(t)$.

p. 38, last formula: replace $\nu$ by $\nu''$.

CHAPTER 3
p. 48, line 9. Should be: $\leq L|x - x'|$.

CHAPTER 4
p. 82, line 8. Replace with $\dot{x} = (A + BF)x + v_1 u$.

CHAPTER 6
p. 106, line -5. Should be: $p_2(t) = \sin(T - t)$.

p. 111, last formula. Should be: $\dot{v}(t) = D_x f(t, x^*(t), u^*(t)) \cdot v(t)$.

p. 115, formula (6.47), should be: $\lim_{\varepsilon \to 0^+} \frac{1}{\varepsilon} \int \cdots$ in all three occurrences.

p. 128, lines 8, 10, 11. Replace with $(x_1, x_2)(0) = (0, -1)$. Then $\bar{y} = (b, 1)$, and $\hat{y} = (x_1, 1)$.

CHAPTER 7
p. 147, line 9. Should be: $\varphi(y_2)$.

Last modified: April 2017.