Corrections to *Population Games and Evolutionary Dynamics* (MIT Press, 2010)

Substantive corrections:

- p64 l16&17  this should say “...a potential game with a concave potential function, whose set of Nash equilibria is therefore convex.”
- p260 l-4  add “and solutions are continuous in initial conditions” [this condition on (D) is needed for Theorem 7.B.3—see p264]
- p264 l11  “Since solutions to (D) are unique, and hence continuous in...”  \[\rightarrow\]  “Since solutions to (D) are continuous in...” [see p260]
- p465  the last paragraph of the proof of Theorem 12.2.2 can be replaced by the observation that \(\log \mu_{N,\eta}^N\) is always nonpositive (since \(\mu_{N,\eta}^N\) is a probability)

Typos and other minor things:

- p xxi fig 1  “Sec. 12.5 only”  \[\rightarrow\]  “Sec. 12.6 only”
- p17 l16  “chapter 5”  \[\rightarrow\]  “chapter 4”
- p37 fig 2.9  the axis labels should be \(x_H\) and \(x_D\)
- p54 l17  \(\mathbb{R}^n \rightarrow \mathbb{R}^n_+\)
- p54 l19  \(x^p \rightarrow x^p\)
- p64 l18  \(\mathbb{R}^n_+ \rightarrow X\)
- p64 l11  \(m^p \rightarrow m^p\)
- p93 l6  omit “equation (3.20) from the previous proof shows that”
- p94 l-5  the line should end with \(x, y \in X\)
- p94 l-1  the first \(\Sigma\) should be \(\bar{\Sigma}\)
- p99 l2  \(j \min b(x) \rightarrow j = \min b(x)\)
- p116 l11  this should say \(x \in GESS(F) \iff x \in \bigcap_{y \in X - \{x\}} I_F(y)\)
- p123 l-2  \(F \rightarrow F\)
- p134  \(e \rightarrow e\) (twice)
- p141 l3  “interpretaion”  \[\rightarrow\]  “interpretation”
- p166 l10  \(\pi_i^p(x) \rightarrow \pi_i^p\)
- p172 l-14  \(p \rightarrow p\)
- p183 l4  this dynamic  \[\rightarrow\]  the best response dynamic
- p184 l7  omit “is globally stable and”
- p194 l-8  after the comma, add “let \(F(x)\) denote the distribution function of \(\varepsilon_i\) and”
- p208 l8  \(|y_s - x_s| \rightarrow |y_s - x_s|^2\)
omit “are”

“That $\tilde{f}$” $\rightarrow$ “That $\tilde{f}$”

ded this with “dynamics with protocols of the form”

$G^{-1}(0) \rightarrow \tilde{G}^{-1}(0)$

end this with “for this dynamic with $\varepsilon = \frac{1}{10}$”

t $\rightarrow$ $t_k$

$\sum_{j=1}^{k} t_i \rightarrow \sum_{j=1}^{k} t_i$; also, $x_j \rightarrow x_i$

replace this with “...embed this flow in the plane as an asymptotically stable homoclinic orbit whose rest point is attracting but not asymptotically stable.”

“also they” $\rightarrow$ “they also”

“equilibrium” $\rightarrow$ “equilibrium”

in the bottom row of the last matrix, $\xi_1$ should be $\xi_2$

“the real and imaginary parts”

“important” $\rightarrow$ “importantly”

“sufficiently” $\rightarrow$ “sufficiently”

$\hat{V}(y) = h(V(h^{-1}(y))) \rightarrow \hat{V}(y) = MV(h^{-1}(y))$

omit “and the Poincaré-Bendixson Theorem”

$X^N \rightarrow X^N_t$

“Sandholm” $\rightarrow$ “Sandholm” (!)

$\Phi_i \rightarrow \Phi$

the summand should be $(P^N_1(i, N-j) - P^N_0(i, N-j+1))$

$f \rightarrow f^N$

$f \rightarrow f^N; \tilde{f} \rightarrow \tilde{f}^N$

“part (i)” $\rightarrow$ “parts (i) and (ii)”

$I^\eta(x) \rightarrow I^\eta(x)$

$\Delta_F \rightarrow F_\Delta$

$+1 \rightarrow -1$

[0, $\varepsilon$] $\rightarrow$ (0, $\varepsilon$) (twice)

for all $i, j, k \in S$ $\rightarrow$ for all distinct $i, j, k \in S$ (and hence for all $i, j, k \in S$ with $i \neq j$ and $i \neq k$ (why?))

“Theory” $\rightarrow$ “The Theory”

81–108 $\rightarrow$ 667–689

“upperhemicontinuous” $\rightarrow$ “upper-hemicontinuous”