

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. . ." → "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 $\log \mu_x^{N,\eta}$ is always nonpositive (since $\mu_x^{N,\eta}$ is a probability)

Typos and other minor things:

- p xxi fig 1 "Sec. 12.5 only" → "Sec. 12.6 only"
- p17 l16 "chapter 5" → "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 l8 $\mathbb{R}_+^n \rightarrow X$
- 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 $\tilde{\Sigma}$ should be $\tilde{\Sigma}$
- p99 l2 $j \min b(x) \rightarrow j = \min b(x)$
- p116 l11 this should say $x \in GESS(F) \Leftrightarrow x \in \bigcap_{y \in X - \{x\}} I_F(y)$
- p123 l-2 $F \rightarrow F$
- p134 $e \rightarrow e$ (twice)
- p141 l3 "interpretaion" → "interpretation"
- p166 l10 $\pi_i^p(x) \rightarrow \pi_i^p$
- p172 l-14 $p \rightarrow p$
- p183 l4 this dynamic → 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 ε_i , and"
- p208 l8 $|y_s - x_s| \rightarrow |y_s - x_s|^2$

p221 l5	omit "are"
p227 l-10	"That \tilde{f} " \rightarrow "That \tilde{f} "
p235 l-16	end this with "dynamics with protocols of the form"
p245 l1	$G^{-1}(0) \rightarrow \tilde{G}^{-1}(0)$
p236 l12	end this with "for this dynamic with $\varepsilon = \frac{1}{10}$ "
p262 l4	$t_n \rightarrow t_k$
p262 l5	$\sum_{j=1}^k t_j \rightarrow \sum_{i=1}^k t_i$; also, $x_j \rightarrow x_i$
p262 l-10	replace this with "...embed this flow in the plane as an asymptotically stable homoclinic orbit whose rest point is attracting but not asymptotically stable."
p269 l8	"also they" \rightarrow "they also"
p281 l-12	"equilibrium" \rightarrow "equilibrium"
p310 l7	in the bottom row of the last matrix, ξ_1 should be ξ_2
p313 l16	omit "the real and imaginary parts"
p329 l16	"important" \rightarrow "importantly"
p333 l4	"sufficently" \rightarrow "sufficiently"
p337 l-11	$\hat{V}(y) = h(V(h^{-1}(y))) \rightarrow \hat{V}(y) = MV(h^{-1}(y))$
p353 l-6	omit "and the Poincaré-Bendixson Theorem"
p389 l-10	$X^N \rightarrow X_t^N$
p395 l-14	"Sahdholm" \rightarrow "Sandholm" (!)
p425 l14	$\Phi_i \rightarrow \Phi$
p426 l1	the summand should be $(F_1^N(\frac{j}{N}, \frac{N-j}{N}) - F_0^N(\frac{j-1}{N}, \frac{N-j+1}{N}))$
p426 l-13	$f \rightarrow f^N$
p426 l-11	$f \rightarrow f^N$; $\tilde{f} \rightarrow \tilde{f}^N$
p433 l-9	"part (i)" \rightarrow "parts (i) and (ii)"
p480 l5	$I^n(x) \rightarrow I^n(\chi)$
p482 l-4	$\Delta_F \rightarrow F_\Delta$
p497 l-11	+1 \rightarrow -1
p503 l17-18	$[0, \bar{\varepsilon}] \rightarrow (0, \bar{\varepsilon}]$ (twice)
p513 l10-11	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?))
p549 l7	"Theory" \rightarrow "The Theory"
p559 l9	81-108 \rightarrow 667-689
p576 l-14	"upperhemicontinuous" \rightarrow "upper-hemicontinuous"