

Corrections for the book NETWORK OPTIMIZATION, Athena Scientific, 1998, by Dimitri P. Bertsekas

p. 17 (+4) Remove the summation so the equation reads

$$f_{ij}(x_{ij}) = w_{ij}(x_{ij} - m_{ij})^2,$$

p. 107 (+18) Change “ γ^+ ” to “ γ^- ”

p. 108 (+15) Change “ d_{ij}^* ” to “ d_{ij} ”

p. 258 (+6) Change “person for person i ” to “object for person i ”

p. 258 (+7) Change “Let $\bar{y} = \max_{\{i|j \in A(i)\}} \{a_{ij} - p_j\}$, let \bar{i} be a person such that $\bar{y} = y_{\bar{i}j}$, let $\hat{y} = \max_{\{i|j \in A(i), i \neq \bar{i}\}} \{a_{ij} - p_j\}$, let \hat{i} be a person such that $\hat{y} = y_{\hat{i}j}$.” to “Let \bar{i} be a person that attains the maximum in $\max_{\{i|j \in A(i)\}} y_{ij}$ and let $\bar{y} = y_{\bar{i}j}$. Let also \hat{i} be a person that attains the maximum in $\max_{\{i|j \in A(i), i \neq \bar{i}\}} y_{ij}$ and let $\hat{y} = y_{\hat{i}j}$.”

p. 306 (+15) Change

$$g_i = \sum_{\{j|(j,i) \in \mathcal{A}\}} x_{ji} - \sum_{\{j|(i,j) \in \mathcal{A}\}} x_{ij}.$$

to

$$g_i = \sum_{\{j|(j,i) \in \mathcal{A}\}} x_{ji} - \sum_{\{j|(i,j) \in \mathcal{A}\}} x_{ij} + s_i.$$

p. 311 (-8) Change Eqs. (7.65)-(7.68) as follows

$$p_i - p_j \geq a_{ij} - \epsilon, \quad \forall \in_{i,j} H^+, \quad (7.65)$$

$$p_i - p_j \leq a_{ij} + \epsilon, \quad \forall \in_{i,j} H^-. \quad (7.66)$$

Similarly, since the pair (x^0, p^0) satisfies $r\epsilon$ -CS, we have

$$p_i^0 - p_j^0 \leq a_{ij} + r\epsilon, \quad \forall \in_{i,j} H^+, \quad (7.67)$$

$$p_i^0 - p_j^0 \geq a_{ij} - r\epsilon, \quad \forall \in_{i,j} H^-. \quad (7.68)$$

p. 336 (+11) Change “and that the” to “and the”

p. 380 (-9) Change “Exercise 1.8” to “Exercise 1.19”

p. 372 (+6) Change “programs” to “problems”

p. 420 (-7) Change “ $t > 0$ ” to “ $t_{21} > 0$ ”

p. 461 (+16) Change “convex set B ” to “closed convex set B ”

p. 461 (-11) Change “that the vector” to “that if B is a Cartesian product of (not necessarily closed) intervals, the vector”

p. 527 (-14) Change to Hansen [1986]