Corrections

Integrated Methods for Optimization by J. N. Hooker

Page 39, lines 3–7 from bottom. Omit "since y_{A1} has domain $\{0, 1\}$." Replace the subsequent text "implies that y_{A1} must select ... reduced to $\{0\}$ " with "implies that y_{A1} must select w_{01}, w_{11} , or w_{31} to be equated with z_{A1} . But $z_{A1} = A$, and only the domains of w_{01} and w_{31} contain A. Thus y_{A1} must select w_{01} or w_{31} , and y_{A1} 's domain can be reduced to $\{0, 3\}$."

Page 61, problem 14. Change " $3x_1 + x_2 \le 15$ " to " $3x_1 + x_2 \ge 15$."

Page 62, problem 16, line 4. Change "at most k" to "at most K."

Page 83, line 6. Change " $v \ge 10$ " to " $v \ge 8x_{B4}$."

Page 138, line 7. Change " $v \ge 9 + 4x_1 + 4x_2$ " to " $v \ge 8 + 5x_1 + 6x_2$."

- Page 202, Fig. 3.15. Example (b) is wrong. Alldiff filtering removes the same edges as vertex-degree filtering in this example, and in general it subsumes vertex-degree filtering.
- Page 257, problem 2. Change " $(\frac{1}{2}, \frac{1}{4}, 0, 0)$ " to " $(\frac{1}{2}, \frac{3}{4}, 0, 0)$." Change " x_1, x_3 " to " x_2, x_1 ." Change $\begin{bmatrix} 2 & 1 \\ -2 & 1 \end{bmatrix}$ to $\begin{bmatrix} -2 & 1 \\ 2 & 1 \end{bmatrix}$.
- Page 257, problem 3, after formula (4.16). Change "with A_1 " to "with $B^{-1}A_1$." Change $\begin{bmatrix} 1 & 1 & -\frac{1}{2} & 0\\ 0 & 1 & 1 & 1 \end{bmatrix}$ to $\begin{bmatrix} 1 & -\frac{1}{2} & -\frac{1}{2} & 0\\ 0 & 2 & 1 & 1 \end{bmatrix}$.
- Page 281, 4 lines above Theorem 4.8. Change "(c), (d), and (e)" to "(a), (b), and (c)."

Page 289, Corollary 4.15. Change "any unit column" to "any column."

Page 351, problem 6, line 3. Change " $\neg x_3x_3$ " to " $\neg x_3$ "

Page 390, formula (4.231), line (e). Remove the term $d_{\max}(1 - \sum_j x_{jk})$.

Page 396, formula (4.240). In line (d), first "=" should be "+." In line (f), add

$$+\sum_{j}\sum_{k' < k} x_{jk'k}(r_j + p_j)$$

to the right-hand side of the inequality. In line (g), replace the term

$$d_{\max}\left(1 - \sum_{j} \sum_{k' < k} x_{jk'k}\right) \quad \text{with} \quad \sum_{j} \sum_{k' > k} x_{jkk'}(d_j - p_j)$$

Page 396, last formula. Remove both occurrences of \sum_{j} .

Page 397, formula (4.241). Change all occurrences of variable s to t. In line (e), change "k' < k" to "k' > k" and add "for all j."

Page 406, formula (4.252), line 5. Change " L_2 " to " T_2^L ."