

$$\begin{aligned}
& \text{Maximize} && c_1 x_4 x_7 - c_2 x_1 - c_3 x_2 - c_4 x_3 - c_5 x_5 \\
& \text{Subject to:} && [x_1(1.12 + 0.13167x_8 - 0.00667x_8^2)] - d_{4_l} x_4 \geq 0 \\
& && -[x_1(1.12 + 0.13167x_8 - 0.00667x_8^2)] + d_{4_u} x_4 \geq 0 \\
& && [86.35 + 1.098x_8 - 0.038x_8^2 + 0.325(x_6 - 89)] - d_{7_l} x_7 \geq 0 \\
& && -[86.35 + 1.098x_8 - 0.038x_8^2 + 0.325(x_6 - 89)] + d_{7_u} x_7 \geq 0 \\
& && [35.82 - 0.222x_{10}] - d_{9_l} x_9 \geq 0 \\
& && -[35.82 - 0.222x_{10}] + d_{9_u} x_9 \geq 0 \\
& && [-133 + 3x_7] - d_{10_l} x_{10} \geq 0 \\
& && -[-133 + 3x_7] + d_{10_u} x_{10} \geq 0 \\
& && 1.22x_4 - x_1 - x_5 = 0 \\
& && \frac{93000x_3}{x_3x_9 + 1000x_3} - x_6 = 0 \\
& && \frac{x_2 + x_5}{x_1} - x_8 = 0 \\
& && x_i^l \leq x_i \leq x_i^u \quad j = 1, \dots, 10
\end{aligned}$$