

Узукто програмирате

$$g = (g_1, g_2, \dots, g_k) \quad \text{- узуктолу}$$

$$f(x) = (f_1(x), f_2(x), \dots, f_k(x)) \quad \text{- } p\text{-je кум-едижме}$$

$$x \in X$$

$$d_i^+ = f_i(x) - g_i(x) \geq 0 \quad \text{премаасој}$$

$$d_i^- = f_i(x) - g_i(x) \leq 0 \quad \text{тоглозој}$$

$$d_i^+ \rightarrow w_i^+ \quad \text{когто}$$

$$d_i^- \rightarrow w_i^- \quad \text{кагто}$$

$$f_i(x) \geq g_i \quad \left\{ \begin{array}{l} w_i^+ = 0 \quad \text{премаасој} \\ w_i^- \neq 0 \quad \text{тоглозој} \end{array} \right.$$

$$f_i(x) \leq g_i \quad \left\{ \begin{array}{l} w_i^- = 0 \quad \text{тоглозој} \\ w_i^+ > 0 \quad \text{премаасој} \end{array} \right.$$

$$f_i = g_i \quad \left\{ \begin{array}{l} w_i^+ > 0 \\ w_i^- > 0 \end{array} \right.$$

$$\min \sum_{i=1}^k (w_i^+ d_i^+ + w_i^- d_i^-)$$

$$x \in X$$

$$f_i(x) - d_i^+ + d_i^- = g_i, \quad i = 1, \dots, k$$

$$d_i^+, d_i^- \geq 0$$