Problem optimalnih tokova snaga:

$$\min f(x) = \sum_{i=1}^{N_G} C_i(P_i) = \sum_{i=1}^{N_G} (\alpha_i + \beta_i P_{Gi} + \gamma_i P_{Gi}^2)$$

$$x = \left(U_1, U_2, \dots, U_{N_G}, P_2, P_3, \dots, P_{N_G}\right)$$

$$U_i^{MIN} \leq U_i \leq U_i^{MAX}$$

$$S_i \leq S_i^{MAX}$$

$$P_{Gi}^{MIN} \leq P_{Gi} \leq P_{Gi}^{MAX}$$

$$Q_{Gi}^{MIN} \leq Q_{Gi} \leq Q_{Gi}^{MAX}$$