$$\forall i : \sum_{k=0}^{j} X_{i,k} = P_i \tag{1}$$

$$\forall j : \sum_{k=0}^{i} X_{k,j} \leq M_j \tag{2}$$

$$\forall j_1, j_2 : (\sum_{k=0}^{i} X_{k,j_1} - X_{k,j_2})(e_{j_1} - e_{j_2}) \geq 0 \tag{3}$$

$$\forall i, j : C_{i,j} = g_j \cdot \ln(d_{i,j} + A_{i,j} + S(w_i, w_j) + e) \tag{4}$$

$$\forall i : Z_i = 1 - \frac{X_{imax}}{P_i} \tag{5}$$

$$\forall i, j : X_{i,j} \in Z, X_{i,j} \geq 0 \tag{6}$$

$$\alpha \sum_{k=0}^{i} \sum_{t=0}^{j} C_{k,t} \cdot X_{k,t} + (1 - \alpha) \frac{\sum_{k=0}^{i} \sum_{t=0}^{j} C_{k,t}}{m \cdot n} \sum_{k=0}^{i} P_i Z_i$$