

$$E_j = -\frac{1}{\ln(m)}\Sigma_{i=1}^m r_{ij} \ln(r_{ij}) \qquad j = 1, \; \ldots, \; n \qquad (0 \leq E_j \leq 1)$$

$$S_i^+ = \sqrt{\sum_{j=1}^n (v_{ij} - v_j^+)^2}$$

$$S_i^- = \sqrt{\sum_{j=1}^n (v_{ij} - v_j^-)^2}$$

$$C_i^* = S_i^- / (S_i^+ + S_i^-)$$

$$S_i = \sum_j w_j \Big(\frac{f_j^+ - a_{ij}}{f_j^+ - f_j^-} \Big)$$

$$R_i = \max_j \left\{ w_j \left(\frac{f_j^+ - a_{ij}}{f_j^+ - f_j^-} \right) \right\}$$

$$Q_i = v \frac{(S_i - S^+)}{(S^- - S^+)} + (1 - v) \frac{(R_i - R^+)}{(R^- - R^+)}$$