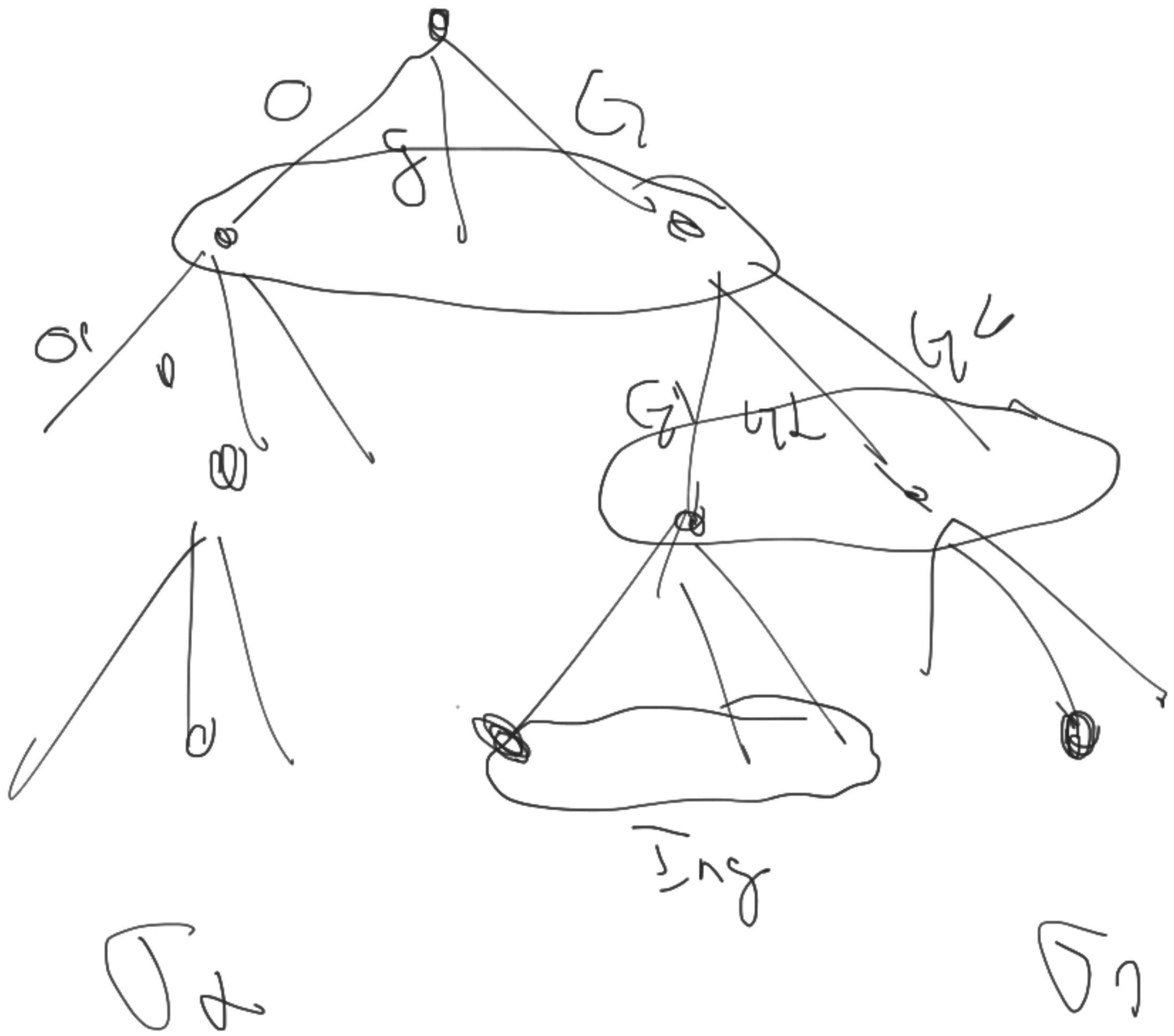


C node

$$I_{ng} = (1 - \sigma_1) \ln \sum_{k=1}^{I_{ng}} \exp(\delta_k / (1 - \sigma_1))$$

$$I_g = (1 - \sigma_2) \ln \sum_{n=1}^{I_g} \exp(I_{ng} / (1 - \sigma_2))$$

$$I = \ln \left(1 + \sum_{g=1}^G \exp(I_g) \right)$$



$\sigma = (\sigma_1, \sigma_2)$ São os parâmetros de correlação dentro de cada manho.

$\left\{ \begin{array}{l} \sigma_1 \rightarrow \text{ser grupo} \\ \sigma_2 \rightarrow \text{grupo} \end{array} \right.$

Demanda Agregada

$$q_j = \sum_{i=1}^I s_j(\delta, \sigma) d_{ij} = s_j(\delta, \sigma) \cdot I \quad (\text{dem unitária})$$

$$q_i = \sum_{j=1}^I s_j(\delta, \sigma) d_{ij} = s_i^0(\delta, \sigma) \frac{B}{P_i} \quad \left(\begin{array}{l} \text{despesa} \\ \text{Constante} \end{array} \right)$$

$$B = \delta Y, \quad Y = \sum_{i=1}^I y_i$$

Probabilidade de falha. $S_j^e = S_j(\delta_j^e, \sigma)$ (*)
 $\delta = \alpha/\tau - \alpha\rho + \{$

Processo inventa a equação (*)
 $S_j = S_j(S, \sigma)$

Berry (1994):

$$S_j^e = \ln(S_j/S_0) - \sigma_1 \ln(S_{j1}) - \sigma_2 \ln(S_{j2})$$

$$\ln\left(\frac{s_j}{s_c}\right) = \alpha_j \beta - \alpha p_j + \sigma_1 \ln S_{j|ng} + \sigma_h \ln S_{h|g} + \zeta_j$$