

$$P_{B_j} = \lambda \prod_{i=1}^{\mu} M_1(\psi_{ij}) + (1-\lambda) \prod_{i=1}^{\mu} M_2(\psi_{ij})$$

$$P_B = \prod_{j=1}^{\omega} P_{B_j}$$

Between

$$P_{W_j} = \prod_{\substack{i=1 \\ i=1}}^{N_j, \mu} \left[ \lambda M_1(\psi_{ij}) + (1-\lambda) M_2(\psi_{ij}) \right]$$

within

$$L_B = \sum_{j=1}^{\omega} \log \left[ e^{\log \lambda + \sum L_1(\psi_{ij})} + e^{\log(1-\lambda) + \sum L_2(\psi_{ij})} \right]$$

$$L_W = \sum_{j=1}^{\omega} \sum_{i=1}^{\mu} \log \left[ e^{\log \lambda + L_1(\psi_{ij})} + e^{\log(1-\lambda) + L_2(\psi_{ij})} \right]$$