$$egin{aligned} R_{ij}^* \ & \mathcal{S} \ & \mathbf{\Phi} \ & \mathbf{P} \ & \mathbf{H} \ & \mathbf{Y} \ & \mathbf{Y}_i \ & \mathbf{Y}_j \ & M_i \ & M_j \ & \mathbf{M} \ & \mathbf{\Theta} \ & R_{ij} \ & oldsymbol{z}_i^* \ & oldsymbol{z}_j^* \ & 1 \leq i < n, \ i < j \leq n \end{aligned}$$