$$z_i^{(\ell)} = W^{(\ell)} X_i^{(\ell)}$$

Learnable parameters

$$e_{ij}^{(\ell)} = \text{LeakyReLU}(a^{(\ell)\top}(z_i^{(\ell)} \| z_j^{(\ell)}))$$

Edge representation

$$\alpha_{ij}^{(\ell)} = \frac{\exp(e_{ij}^{(\ell)})}{\sum_{k \in \mathcal{N}(i)} \exp(e_{ik}^{(\ell)})}$$

Normalisation