$$m{z}^{(\ell+1)} = g_G(m{m}_E^{(\ell)}, m{m}_V^{(\ell)}, m{z}^{(\ell)})$$
 $m{m}_E^{(\ell)} = f_{E o G}(\{m{e}_{ij}^{(\ell)}, orall (i,j)\in E\})$
 $m{m}_V^{(\ell)} = f_{V o G}(\{m{h}_i^{(\ell)}, orall v_i\in V\})$