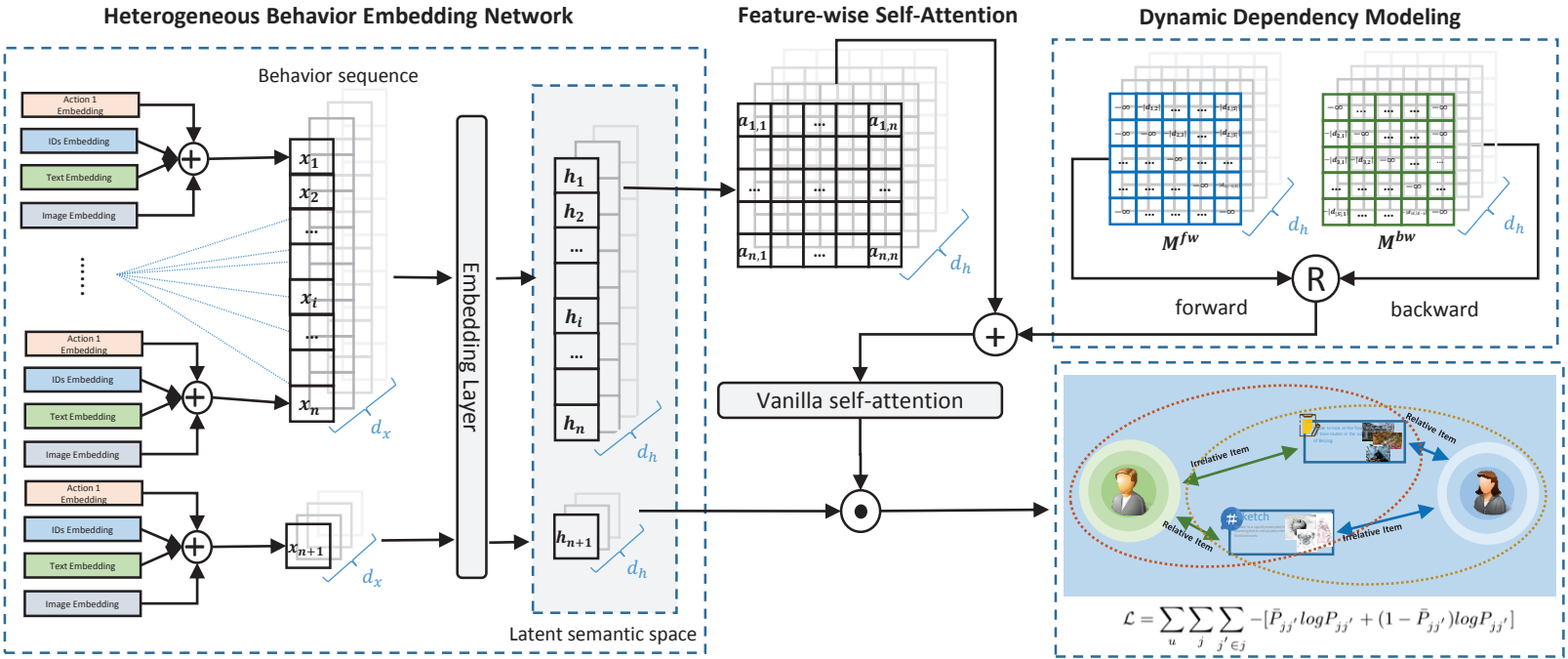

$$\mathcal{L} = \sum_{u} \sum_{j} \sum_{j' \in j} -[\bar{P}_{jj'} log P_{jj'} + (1 - \bar{P}_{jj'}) log P_{jj'}]$$