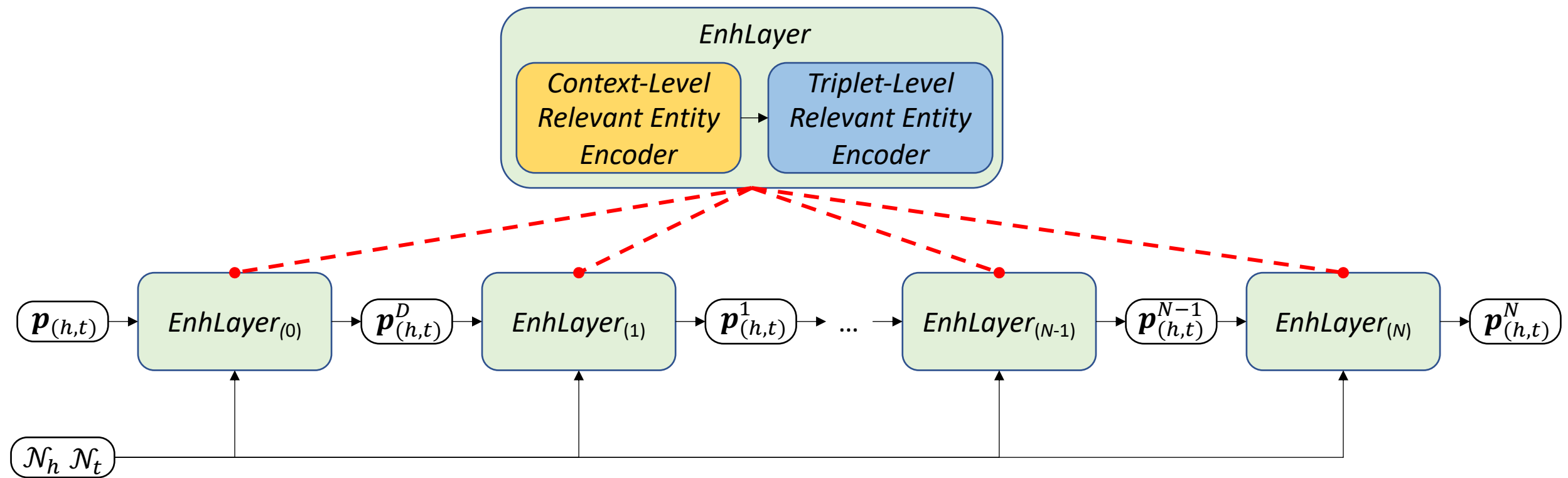


(a) Cascaded Embedding Enhancement Network

Neighbor entity sets: $\mathcal{N}_h, \mathcal{N}_t$
 Input entity pair embedding: $\mathbf{p}_{(h,t)}$
 Enhanced entity pair embeddings: $\mathbf{p}_{(h,t)}^D, \mathbf{p}_{(h,t)}^i (i = 1, 2, 3 \dots N)$



(b) Supervised Relational Learning Module

Dual entity pair embeddings: $\mathbf{p}_q^{CL}, \mathbf{p}_q^{TL}$
 Enhanced entity pair embedding of the query q : \mathbf{p}_q^N
 Enhanced entity pair embeddings of the support set \mathcal{S}_r : $\mathbf{p}_{s_r^k}^N (k = 1, 2, 3 \dots)$

