Properties for Term-Similarity

- Similarity (δ) of two terms based on underlying taxonomical relationship

(1) $\delta(c_i, c_j) = \delta(c_j, c_i)$, for all c_i, c_j,

(2) $\delta(c_i, c_i) \leq \delta(c_j, c_j)$ for $c_j \preceq c_i$,

(3) $\delta(c_i, c_j) \leq \delta(c_j, c_j)$ for all c_i, c_j,

(4) if $\exists c_m \in A_i \cap A_j$ such that $c_m \preceq c_n$, $\forall c_n \in A_k \cap A_l$, then $\delta(c_i, c_j) \geq \delta(c_k, c_l)$.