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## Abstract

### 1 test

$$weight_v = \frac{\sum_{a \in A} w_{u_p}[a][v]}{Number\ of\ Values}$$

$$Intrscn = [a \mid a \in \text{edge attribute of subgraph}(\text{items of } u_p \cap \text{items of } u_q, G)]$$

$$Union = [a \mid a \in \text{edge attribute of subgraph}(\text{items of } u_p \cup \text{items of } u_q, G)]$$

$$sim(u_p, u_q) = \frac{\sum (w_{u_p}[a] + w_{u_q}[a]) * relFreq(a, Intrscn) \ \forall \ a \in set(Intrscn)}{\sum (w_{u_p}[a] + w_{u_q}[a]) * relFreq(a, Union) \ \forall \ a \in set(Union)}$$

where  $relFreq(attrib, list)$  returns the relative frequency of occurrence of  $attrib$  in  $list$ .