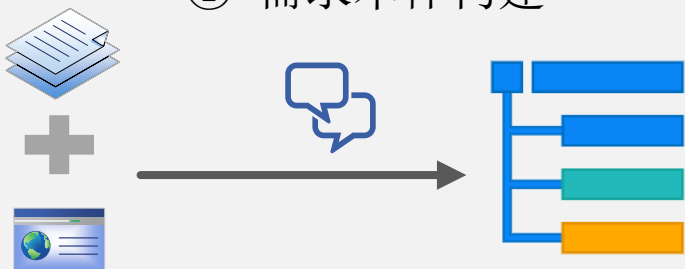




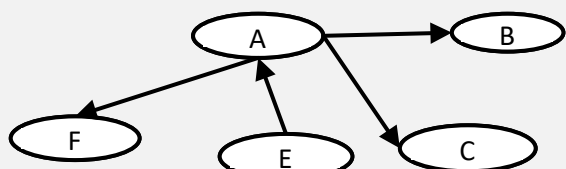
输入

(1) 知识表示

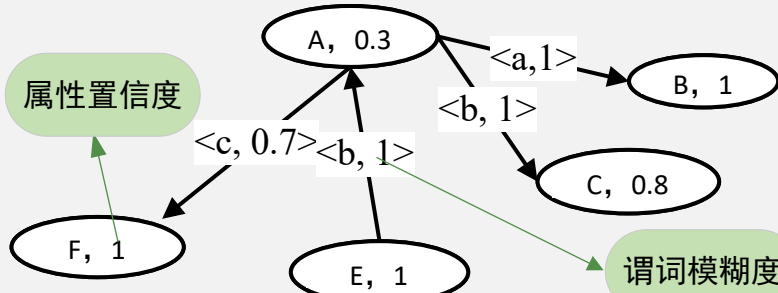
① 需求本体构建



② 基础知识图谱构建



③ 模糊需求知识图谱构建



(2) 知识推理

④ FRKG 逻辑推理规则

FSEO	$(x, \langle p, \mu_\alpha \rangle, \langle y, \mu_\beta \rangle) \Rightarrow \mu_\alpha = 1 \wedge x = \langle y, \mu_\beta \rangle$
FSSO	$(x, \langle p, \mu_\alpha \rangle, \langle y, \mu_\beta \rangle) \Rightarrow (\langle y, \mu_\beta \rangle, \langle p, \mu_\alpha \rangle, x)$
FSTO	$(x, \langle p, \mu_\alpha(x, y) \rangle, \langle y, \mu_\beta^y \rangle) \wedge$ $(y, \langle p, \mu_\alpha(y, z) \rangle, \langle z, \mu_\beta^z \rangle) \Rightarrow$ $(x, \langle p, \mu_\alpha(x, y) \cdot \mu_\alpha(y, z) \rangle, \langle z, \mu_\beta^y \cdot \mu_\beta^z \rangle)$
FSIO	$(x, \langle p_1, \mu_{\alpha 1} \rangle, \langle y, u_\beta \rangle) \Rightarrow$ $(\langle y, u_\beta \rangle, \langle p_2, \mu_{\alpha 2} \rangle, x) \wedge (\mu_{\alpha 1} = \mu_{\alpha 2})$

节点距离度量

- 符号值
- 真实数值
- 语义值
- 区间值

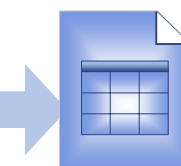
需求排序指标

- 商业价值
- 用户优先级
- 可行性
- 依赖性
- 成本

$$\varphi(Re_0(h), Re_q(h)) = \frac{\min_q \min_h \Delta + \xi \max_q \max_h \Delta}{\Delta + \xi \max_q \max_h \Delta}$$
$$P(Re_0, Re_q) = \frac{1}{|k_l|} \sum_{l=1}^{|k_l|} \varphi(Re_q(h), Re_0(h))$$

⑤ 多准则需求排序

输出



需求优先级