

- objects/individuals/entity个体
- concept/classes/categories概念
- relations/properties/attributes关系
- Axioms公理/constraints (TBox里的GCI或等价关系)
- object property: role name二元关系
- \cup : disjunction/union/or
- \cap : conjunction/intersection/and
- \exists : existential restriction
- \forall : value restriction
- \neg : complement/negation (在I中是 $\text{domain} \setminus C$, 右斜杠)
- terminology术语
- TBox: terminological box/schema
- ABox: assertion box/data
- role hierarchies/role inclusion: r之间的包含关系
- complete ABox: 发现clash或 none of the expansion rules is applicable
- clash-free ABox: 无clash
- unsatisfiable class: 即空集
- logical consequence of T: T满足的式子

证明术语

提出充要条件 specifying necessary and sufficient conditions

则一定存在implies the existence of

反设Assume to the contrary that

反例counter example

存在...即....使得...There is a.... i.e.....such that

An element q is called an r-successor of an element p if the two elements are related via the relation r such that $r(p, q)$

- DL (description logics) 与OWL一一对应

there is an ALCN concept C such that $C \equiv D$ holds for all ALC concepts D

题目术语

without the loss of generality共性

elaborate on 详细解释

notion概念

syntactic句法

semantic语义

exponential指数的