

CPSC 322, Practice Exercise

Logic: Syntax

1 Directed Questions

In propositional definite clause logic (PDCL),

- What is an atom? Give the definition and an example.
- What is a body? Give the definition and an example.
- What is a definite clause? Give the definition and an example.
- What is a knowledge case? Give the definition and an example.
- What is an interpretation of a knowledge base KB ? Give the definition and an example.
- What is a model of a knowledge base KB ?

2 Syntax

Which of the following rules are syntactically invalid in propositional definitive clause logic, and why?

1. $\text{bikeCrashed} \leftarrow \text{cycledDrunk}$
2. $\text{goByBus} \vee \text{goByCar} \leftarrow \text{bikeBroke}$
3. $\text{goByBus} \leftarrow \neg \text{haveGas} \vee \text{bikeBroke}$

3 Learning Goals

You can:

- Model a relatively simple domain with propositional definite clause logic (PDCL)