

Logical Inference 4 wrap up

Chapter 9

Summary

- Logical agents apply inference to KB to derive new information and make decisions
- Basic concepts of logic:
 - Syntax: formal structure of sentences
 - Semantics: truth of sentences wrt models
 - Entailment: necessary truth of one sentence given another
 - Inference: deriving sentences from other sentences
 - Soundness: derivations produce only entailed sentences
 - Completeness: derivations produce all entailed sentences
- FC and BC linear time, complete for Horn clauses
- Resolution is sound and complete for propositional and first-order logic