AI Theory

Propositional Logic:

Syntax

Semantis

inference Jules J

Phopositional logic entails naking new formules from existing ones. Formules Interpretation Function f -> formula ~ > model I(f, w) returns: true, w satisfies f false, otherwise I (f,w) is benically a

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Lancy name of truth table

Formula represents a set of models.

M(f) > Set of models

where T(f, w) = 1

Knowledge base:

Set of formulas representing their intersection

> M(KB) = (MH) TEKB

Intuition: KB = constraints in the real world. Jutepution means those constraints are less in amount. KB = { Rain V Snow, troffic? M (Prs)