

A Right Representation of the Completeness Theorem of Propositional Logic —Towards a Truly Thinking Machine—

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The calculation of the truth function of a propositional formula is a kind of proof.

I think that a right representation of the completeness theorem of propositional logic is as follows.

If it is proved that a propositional formula is right by the calculation of the truth function, it is proved that the propositional formula is right by that proof system.

I am also critical of the concepts of semantics and syntax of mathematical logic. I think that all semantics can be syntactical and all syntax can be semantic. They will be simultaneous.