

CS 4860 Lecture 17 Systematic Tableaux

October 25, 2012

This lecture covered two topics.

1. Discuss why $(\forall x P_x \supset C) \supset \exists x.(P_x \supset C)$ is
 - (a) classically true but
 - (b) unrealizable
2. Present Smullyan's Systematic Tableau in detail (p. 59 of textbook).

We described this as an algorithm for extending a partial proof tree (ppt) and discussed briefly Judith Underwood's statement of the completeness theorem. We will revisit Underwood's account in Lecture 18. The important point of this part of the lecture is the presentation of Smullyan's procedure as an algorithm.

You should add to these notes the algorithm - either from Smullyan or from the lecture. Write it explicitly as an algorithm to extend a partial proof tree in stages.