MSc thesis defense presentation

Ioannis Kokkinis defends his MSc thesis

Date:	Monday, 06 Apr 2015
Time:	09:30-10:30
Location:	Univeristy of Athens, Department of Mathematics, University of Athens, room A11
Thesis title:	Annotated Sequent Systems for Linear Temporal Logic
Committee:	• Nikolaos S. Papaspyrou • Panagiotis Rondogiannis • Efstathios Zachos

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Thesis abstract

Annotated sequents provide an elegant approach for the design of deductive systems for temporal logics. Their proof theory, however, is notoriously dif- ficult. Until recently it was not even clear how to syntactically show the admissibility of weakening. In this thesis we present a cut-free, finitary se- quent system for linear temporal logic, based on annotated sequents. We present proofs for soundness and completeness and also present a purely syntactical proof for the admissibility of weakening in the aforementioned system. Furthermore, we investigate the role of cut in annotated sequent systems.