MSc thesis defense presentation

<u>Ιω█ννης Κοκκ█νης **defends his MSc thesis**</u>

Date:	Δευτ█ρα, 06 Απρ 2015
█ρα:	09:30-10:30
Location:	[Εθνικ█ και Καποδιστριακ█ Πανεπιστ█μιο Αθην█ν, Τμ█μα Μαθηματικ█ν, room A11](#)
Thesis title:	[Συστ█ματα Ακολουθητ█ν με Υποσημει█σεις για τη Γραμμικ█ Χρονικ█ Λογικ█](#)
Committee:	• [Νικ█λαος Παπασπ█ρου](#) • [Παναγι█της Ροντογι█ννης](#) • [Ευστ█θιος Ζ█χος](#)

<u>Thesis abstract</u>

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.