

# MSc thesis defense presentation

## Ioannis Kokkinis defends his MSc thesis

<b>Date:</b>	Monday, 06 Apr 2015
<b>Time:</b>	09:30-10:30
<b>Location:</b>	<a href="#">Univeristy of Athens,</a> <a href="#">Department of</a> <a href="#">Mathematics, University</a> <a href="#">of Athens, room A11</a> <a href="#">Annotated Sequent</a>
<b>Thesis title:</b>	<a href="#">Systems for Linear</a> <a href="#">Temporal Logic</a>
<b>Committee:</b>	<ul style="list-style-type: none"><li>• <a href="#">Nikolaos S.</a> <a href="#">Papaspyrou</a></li><li>• <a href="#">Panagiotis</a> <a href="#">Rondogiannis</a></li><li>• <a href="#">Efstathios Zachos</a></li></ul>

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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 difficult. Until recently it was not even clear how to syntactically show the admissibility of weakening. In this thesis we present a cut-free, finitary sequent 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.

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