

# MSc thesis defense presentation

## Kyriakos Sergis defends his MSc thesis

<b>Date:</b>	Monday, 02 Mar 2015
<b>Time:</b>	16:00-17:00
<b>Location:</b>	School of Electrical and Computer Engineering (old buildings), 1.1.31
<b>Thesis title:</b>	<a href="#">Computational Aspects of the Braess Paradox</a>
<b>Committee:</b>	<ul style="list-style-type: none"><li>• <a href="#">Dimitris Fotakis</a></li><li>• <a href="#">Aristeidis T. Pagourtzis</a></li><li>• <a href="#">Efstathios Zachos</a></li></ul>

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### Thesis abstract

In this thesis, we investigate the Braess paradox from a computational viewpoint. The motivation is to provide simple ways of improving network performance by exploiting the essence of the Braess's Paradox, namely the fact the network performance at equilibrium can be improved by edge removal. We first present approximation algorithms for the best subnetwork problem in random networks with linear latencies and polynomially many paths, each of polylogarithmic length. Moreover, we improve on the best known running time for the best subnetwork problem in certain classes of networks.

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