## Random graphs and its applications for networks

## **Lefteris Kirousis**

Lovasz Local Lemma: An introduction and some recent results

I will outline the algorithmic results for the Lovasz Local Lemma by Moser and Tardos. Then I will describe a unifying direct probabilistic approach for the analysis of the algorithms that works for most variants. Finally, I will outline some recent work on generalizations of LLL.