

COMBINATORICS SEMINAR

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3:00 p.m.
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Cops and robbers on graphs finite and infinite

Abstract:

The games of cops and robbers on graphs have been studied since the 1980s. After a lull of a decade, a link between a version of the game and tree-width was found, beginning a new era of activity that continues today. See, among others, <http://www.iu.uib.no/~fomin/fedor/articles1/abgs.pdf>, for a relatively recent survey.

In this talk we concentrate on the first game studied. We describe the game, prove - or indicate how to prove - a few basic results for finite graphs, and then look at the game on infinite graphs. The fact that the game is quite different in the two cases will be stressed. A few open problems will be outlined that come out of this work.