

abstract

COMPUTER SCIENCE/DISCRETE MATH, II
Topic:

Speaker:

Affiliation:

Date:

Time/Room:

I will sketch a proof that for any monotone graph property P and any $\epsilon > 0$ one can approximate efficiently the minimum number of edges that have to be deleted from an n -vertex input graph to get a graph that satisfies P , up to an additive error of ϵn^2 . Moreover, for any dense monotone property, that is, a property for which there are graphs on n vertices with $\Omega(n^2)$ edges that satisfy it, it is NP-hard to approximate this minimum up to an additive error of $n^{2-\epsilon}$, for any fixed positive ϵ . The second part answers a question raised by Yannakakis in 1981.

Joint work with A. Shapira and B. Sudakov.