Seminar on Combinatorial Computing
September 25, 2002, Wednesday, 6:30 p.m.
Room 6417, Graduate Center
365 Fifth Avenue, New York

Incidences and related problems

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Abstract

An incidence occurs between a point and a curve if the point lies on the curve. Given a set P of m points and a set C of n curves of some kind (lines, circles, etc.), what is the maximum possible number $I(m,n)$ of incidences between the points of P and the curves of C? This easy-to-state but hard-to-solve problem has a long history, and considerable progress has been made in the past 5 years. In this talk I will survey the problem, its history, the new and elegant proof techniques, as well as some extensions and applications.

For further information contact Janos Pach at pachcims.nyu.edu, or visit our website: http://cs.gc.cuny.edu/∼pach/