Seminar on Combinatorial Computing

May 3, Wednesday, 6:30 p.m.
Room 6417, Graduate Center
365 Fifth Avenue, New York

Problems and results on data structures

Peter Brass
City College, CUNY

Abstract

In this talk I will discuss a number of problems, results, and observations I made connected with my data structures project. Among the problems I will discuss are

1. representing all intervals with few building-blocks: range-restricted queries in decomposable searching problems
2. adding backtracking to data structures: why full persistence is too much
3. string dictionaries supporting queries with errors
4. index structures with few false positives: an abstract version of Bloom filters

For further information contact Janos Pach at pach@cims.nyu.edu, or visit our website
http://www.math.nyu.edu/p̃ach/public_html/combinatorics_seminar.html