

November 2007

MADALGO seminar by Rajeev Raman, University of Leicester

On the size of succinct indices

A succinct data structure occupies an amount of space that is close to the information-theoretic minimum plus an additional term. The latter is not necessarily a lower-order term and, in several cases, completely dominates the space occupancy both in theory and in practice. We present several solutions to partially overcome this problem, introducing new techniques of independent interest that allow us to improve over previously known upper and lower bounds.

Joint work with Alex Golynski, Ankur Gupta, Roberto Grossi and Srinivasa Rao

Host: Srinivasa Rao, MADALGO.