

abstract

COMPUTER SCIENCE AND DISCRETE MATHEMATICS SEMINAR II

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

We define a polynomial threshold function to be a function of the form $f(x) = \text{sgn}(p(x))$ for p a polynomial. We discuss some recent techniques for dealing with polynomial threshold functions, particular when evaluated on random Gaussians. We show how to use these ideas to produce a pseudo random generator for degree- d polynomial threshold functions of Gaussians with seed length $\text{poly}(2^d, \log(n), \epsilon^{-1})$.