



The University of Chicago
Department of Statistics

Seminar Series

ALEXANDER SHAPIRO

School of Industrial and Systems Engineering
Georgia Institute of Technology

**Computational Complexity of Two
and Multistage Stochastic Programming Problems**

MONDAY, October 29, 2007 at 4:00 PM
133 Eckhart Hall, 5734 S. University Avenue
Refreshments following the seminar in Eckhart 110.

ABSTRACT

A standard approach to solving stochastic programming problems is by discretization of the involved probability distributions and consequently solving the obtained (large scale) optimization problem. With increase of the number of random parameters, this typically results in an exponential growth of the size of the optimization problem which has to be solved. In this talk we give an overview of an approach to computational complexity analysis of stochastic programming based on Monte Carlo randomization methods.