

abstract

COMPUTER SCIENCE/DISCRETE MATH I

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

We develop a framework for obtaining (deterministic) Fully Polynomial Time Approximation Schemes (FPTASs) for stochastic univariate dynamic problems with either convex or monotone single-period cost functions.

Using our framework, we give the first FPTASs for several NP-Hard problems in various fields of research such as theoretical computer science, logistics, operational management, economics and finance.

Joint work with Diego Klabjan, Chung-Lun Li, James Orlin and David Simchi-Levi.