

The Hong Kong Polytechnic University Department of Applied Mathematics

Seminar on

The Stochastic Linear Complementarity Problem and Its Applications

by

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Abstract

The stochastic linear complementarity problem(SLCP) is used to model many important decision making problems under uncertainty in engineering management and economics. This talk presents a brief view of recent research on SLCP. It will proceed as follows:

- Introduction of some theoretical results on expected residual minimization method for stochastic linear complementarity problems (joint work with Masao Fukushima(Kyoto Univ.), Haitao Fang(CAS), Chao Zhang(Hirosaki University));
- 2. Illustration of some applications of SLCP in bridge risk management (a Hirosaki University President Key Research Project);
- 3. Discussion of the relation between SLCP and stochastic quadratic program(SQP), and test problems for SQP (written with Rob Womersley(UNSW) in Fortran90, implemented in Matlab by Shanbhag, Infanger, Glynn(Standford)).
- Date : 3 March 2006 (Friday)
- Time : 3:00 4:00 p.m.
- Venue : Departmental Conference Room HJ610 The Hong Kong Polytechnic University

The Friday tea gathering will start right after the seminar

*** ALL ARE WELCOME ***