

The Hong Kong Polytechnic University Department of Applied Mathematics

Colloquium

Numerical Approximation for Optimal Control of PDEs with Random coefficients

by

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In this talk, we study numerical approximation of optimal control governed by PDEs with random coefficients or by SDEs. We first examine stochastic finite element approximation of optimal control governed by PDEs with random coefficients. We firstly derive optimality conditions, set up stochastic finite element approximation of optimal control and then derive a priori error estimates. We further examine some progress on numerical Approximation for Optimal Control of SDEs.

Date: 17 April, 2015 (Friday) Time: 11:00a.m. – 12:00noon

Venue: TU717, The Hong Kong Polytechnic University

*** ALL ARE WELCOME ***