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The Hong Kong University of Science and Technology

Department of Mathematics

Seminar on Applied Mathematics

Max-Norm Estimates for Bivariate Spline Methods

By

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Abstract

The talk is divided into two parts. In the first part, I shall review and explain the convergence of minimal energy interpolation, discrete least squares method, penalized least squares methods, L1 data fitting method in maximum norm. In addition, I shall explain a domain decomposition method (DDM) for solution of these data fitting methods and show that the DDM converges to the original data fitting splines. In the second part, I shall explain a maximum norm estimate for spline solution of Poisson equations and other linear PDE.

Date: ***Wednesday, 28 June 2017***

Time: ***1:30p.m. – 3:00p.m.***

Venue: ***Room 5510, Academic Building***
(near Lifts 25&26), HKUST

All are welcome!