The Hong Kong Polytechnic University
Department of Applied Mathematics

Colloquium

Spectral method for optimal control problems governed by PDEs with state constraints

by

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Abstract

In our researches, the control problems with state (control-state) constraints are approximated by Galerkin spectral method. The optimality conditions are constructed, and a priori and a posteriori error estimates are derived. Moreover, numerical tests confirm the theoretical analysis, and indicate the proposed method in our work is competitive for computing these control problems.

Date :   20 January, 2016 (Wednesday)
Time :   11:00a.m. – 12:00noon
Venue : TU801, The Hong Kong Polytechnic University

* * *   ALL ARE WELCOME   * * *