ABOUT PARAMETER ESTIMATION IN SCALAR CONSERVATION LAWS

ALEJANDRO GUERRERO

Department of Mathematics
University Center for Exact Sciences and Engineering
University of Guadalajara
Guadalajara, Jal, Mexico
e-mail: edgar.guerrero@academicos.udg.mx

ABSTRACT

In this talk a model for parameter estimation in the context of scalar conservation laws is presented. The inverse problem involved is described and formulated as an optimization problem. We show how gradient can be obtained by means of the adjoint equation. Discontinuous Galerkin is used as approximation method. Some strategies (both global and local) for numerical optimization are shown. Applications in the context of the Burger's equation are discussed. Preliminary results are presented.

The present is a joint work with Miguel Moreles (CIMAT, Mexico).

REFERENCES

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