

Minisymposium on
Control and Optimization of Nonlinear Evolutionary PDE Systems.

Organizers:

George Avalos, University of Nebraska-Lincoln (USA);

John Cagnol, University Leonard de Vinci (France);

Irena Lasiecka, University of Virginia (USA).

Abstract: The intent of this minisymposium is to present state of the art results in the (broadly defined) field of PDE analysis. We are particularly interested in those results which have applications and implications in: (i) qualitative and long-time behavior of nonlinear hyperbolic and parabolic systems; (ii) control theory for partial differential equations (including, but not limited to, controllability, optimal control, and stabilizability); (iii) ill-posed problems, including observation and stability; (iv) variational principles for PDE; (v) analysis of interactive and composite PDE systems, such as fluid-structure and structural acoustic dynamics; (vi) analysis and control of the Navier-Stokes equations.

It is our hope that this proposed minisymposium will also provide a proper setting for specialists, in their respective areas of expertise, to discuss and collaborate on problems of mutual interest, thereby leading to further progress in PDE analysis.