

Workshop Control and Inverse Problems in PDE's (CIPPDE)

Wednesday, Nov 6th

Parallel session W1: Control and Inverse Problems in PDE's Session 1

Organizers: Eduardo Cerpa, Carlos Conca, Jaime Ortega

Chair: Jaime Ortega

11h00-11h30	Sebastián Zamorano	Universidad de Santiago de Chile, Chile	<i>Null controllability from the exterior of a one-dimensional nonlocal heat equation</i>
11h30-12h00	Charles Dapogny	Université de Grenoble-Alpes, France	<i>Shape and topology optimization via a level-set based mesh evolution method</i>
12h00-12h30	Cristhian Montoya	Universidad Técnica Federico Santa María, Chile	<i>Simultaneous robust control and hierarchic control in some PDEs</i>

Parallel session W2: Control and Inverse Problems in PDE's Session 2

Organizers: Eduardo Cerpa, Carlos Conca, Jaime Ortega

Chair: Eduardo Cerpa

14h00-14h30	Exequiel Mallea	Universidad de Tarapacá, Chile	<i>A regularity criterion for a 3D chemo-repulsion system and its application to a bilinear optimal control problem</i>
14h30-15h00	Roberto Morales	Universidad de Chile, Chile	<i>On the controllability of some PDE's with dynamic boundary conditions</i>
15h00-15h30	Nicolás Carreño	Universidad Técnica Federico Santa María, Chile	<i>Boundary null-controllability of a system coupling fourth- and second-order parabolic equations</i>

Thursday, Nov 7th

Parallel session Th1: Control and Inverse Problems in PDE's Session 3

Organizers: Eduardo Cerpa, Carlos Conca, Jaime Ortega

Chair: Carlos Conca

11h00-11h30	Francois Murat	Sorbonne Université and CNRS, France	<i>Homogenization of the Neumann's brush problem</i>
11h30-12h00	Sergio Gutiérrez	Pontificia Universidad Católica de Chile, Chile	<i>Optimal design under uncertainty using Small Amplitude Homogenization</i>
12h00-12h30	Nicolas Lebbe	Université de Grenoble-Alpes, France	<i>Robust shape optimization for nanophotonics</i>

Parallel session Th2: Control and Inverse Problems in PDE's Session 4

Organizers: Eduardo Cerpa, Carlos Conca, Jaime Ortega

Chair: Axel Osses

14h00-14h30	Rodrigo Lecaros	Universidad Técnica Federico Santa María, Chile	<i>An inverse problem for Moore–Gibson–Thompson equation arising in high intensity ultrasound</i>
14h30-15h00	Gino Montesinos	Universidad de Aysen, Chile	<i>A simplified Cauchy-Kowalewskaya procedure as building block of high-order finite volume solvers for hyperbolic balance laws</i>
15h00-15h30	Joaquin Mura	Universidad Técnica Federico Santa María, Chile	<i>On two Inverse Problems in biomechanics</i>