

Shape Optimization of Shell Structure Acoustics

Harbir Antil, Sean Hardesty, and Matthias Heinkenschloss

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Dynamic Mean-LPM and Mean-CVaR Portfolio Optimization in Continuous-Time

Jianjun Gao, Ke Zhou, Duan Li, and Xiren Cao

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On Near Optimal Control of Systems with Slow Observables

Vladimir Gaitsgory and Sergey Rossomakhine

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Minimum-Time Transitions between Thermal and Fixed Average Energy States of the Quantum Parametric Oscillator

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Global Stabilization of a Korteweg--De Vries Equation With Saturating Distributed Control

Swann Marx, Eduardo Cerpa, Christophe Prieur, and Vincent Andrieu

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An Extension of the Projected Gradient Method to a Banach Space Setting with Application in Structural Topology Optimization

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Mean-Field SDE Driven by a Fractional Brownian Motion and Related Stochastic Control Problem

Rainer Buckdahn and Shuai Jing

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Perturbation Analysis for Investment Portfolios Under Partial Information with Expert Opinions

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Robust Controllers for Regular Linear Systems with Infinite-Dimensional Exosystems

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Nonseparation of Sets and Optimality Conditions

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Active Fault Isolation: A Duality-Based Approach via Convex Programming

Franco Blanchini, Daniele Casagrande, Giulia Giordano, Stefano Miani, Sorin Olaru, and Vasso Reppa

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Limit Theory for Controlled McKean--Vlasov Dynamics

Daniel Lacker

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Optimal Consumption and Investment with Fixed and Proportional Transaction Costs

Albert Altarovici, Max Reppen, and H. Mete Soner

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A Correction to "A Relative Value Iteration Algorithm for Nondegenerate Controlled Diffusions"

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ISS In Different Norms For 1-D Parabolic Pdes With Boundary Disturbances

Iasson Karafyllis and Miroslav Krstic

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Optimal Control of Semilinear Parabolic Equations by BV-Functions

Eduardo Casas, Florian Kruse, and Karl Kunisch

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On Feller and Strong Feller Properties and Exponential Ergodicity of Regime-Switching Jump Diffusion Processes with Countable Regimes

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Utility-Deviation-Risk Portfolio Selection

K. C. Wong, S. C. P. Yam, and H. Zheng

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Observability Inequalities from Measurable Sets for Some Abstract Evolution Equations

Gengsheng Wang and Can Zhang

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Robustness and Invariance of Connectivity Maintenance Control for Multiagent Systems

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Ergodicity of Robust Switching Control and Nonlinear System of Quasi-Variational Inequalities

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Optimal Control of a Semidiscrete Cahn--Hilliard--Navier--Stokes System with Nonmatched Fluid Densities

Michael Hintermüller, Tobias Keil, and Donat Wegner

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Asymptotic Optimal Strategy for Portfolio Optimization in a Slowly Varying Stochastic Environment

Jean-Pierre Fouque and Ruimeng Hu

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Optimizing the Diffusion System Based on Continuous-Time Consensus Algorithm

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Control and Stabilization of Degenerate Wave Equations

Fatiha Alabau-Boussouira, Piermarco Cannarsa, and Günter Leugering

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Converse Symmetry and Intermediate Energy Values in Rearrangement Optimization Problems

Yichen Liu and Behrouz Emamizadeh

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Sliding Mode Control for a Nonlinear Phase-Field System

Viorel Barbu, Pierluigi Colli, Gianni Gilardi, Gabriela Marinoschi, and Elisabetta Rocca

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On the Kronecker Canonical Form of Singular Mixed Matrix Pencils

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