# SIAM Journal on Control and Optimization 2019, Volume 57, Issue 5, pp. 3101-3602

### Partially Observed Stochastic Evolution Equations on Banach Spaces and Their Optimal Lipschitz Feedback Control Law

N. U. Ahmed

SIAM Journal on Control and Optimization 2019 57:5, 3101-3117

#### Constrained Markov Decision Processes with Expected Total Reward Criteria

Anna Jaśkiewicz and Andrzej S. Nowak

SIAM Journal on Control and Optimization 2019 57:5, 3118-3136

#### An Inexact Bundle Algorithm for Nonconvex Nonsmooth Minimization in Hilbert Space

Lukas Hertlein and Michael Ulbrich

SIAM Journal on Control and Optimization 2019 57:5, 3137-3165

#### **Boundary Control of the Motion of a Heavy Piston in Viscous Gas**

Pavel I. Plotnikov and Jan Sokołowski

SIAM Journal on Control and Optimization 2019 57:5, 3166-3192

### Optimal Bilinear Control for the X-Ray Free Electron Laser Schrödinger Equation

Binhua Feng and Dun Zhao

SIAM Journal on Control and Optimization 2019 57:5, 3193-3222

### Computation of a Bouligand Generalized Derivative for the Solution Operator of the Obstacle Problem

Anne-Therese Rauls and Stefan Ulbrich

SIAM Journal on Control and Optimization 2019 57:5, 3223-3248

### Mean-Variance Portfolio Selection under a Non-Markovian Regime-Switching Model: Time-Consistent Solutions

Tianxiao Wang, Zhuo Jin, and Jiaqin Wei

SIAM Journal on Control and Optimization 2019 57:5, 3249-3271

## Controllability of Coupled Parabolic Systems with Multiple Underactuations, Part 1: Algebraic Solvability

Drew Steeves, Bahman Gharesifard, and Abdol-Reza Mansouri

SIAM Journal on Control and Optimization 2019 57:5, 3272-3296

### Controllability of Coupled Parabolic Systems with Multiple Underactuations, Part 2: Null Controllability

Drew Steeves, Bahman Gharesifard, and Abdol-Reza Mansouri

SIAM Journal on Control and Optimization 2019 57:5, 3297-3321

## Feedback Stabilization of a Two-Dimensional Fluid-Structure Interaction System with Mixed Boundary Conditions

Michel Fournié, Moctar Ndiave, and Jean-Pierre Raymond

SIAM Journal on Control and Optimization 2019 57:5, 3322-3359

### Boundary Controllability of Two Vibrating Strings Connected by a Point Mass with Variable Coefficients

Jamel Ben Amara and Emna Beldi

SIAM Journal on Control and Optimization 2019 57:5, 3360-3387

#### Synchronization of Kuramoto Oscillators: Inverse Taylor Expansions

Saber Jafarpour, Elizabeth Y. Huang, and Francesco Bullo

SIAM Journal on Control and Optimization 2019 57:5, 3388-3412

### Feedback Stackelberg--Nash Equilibria in Mixed Leadership Games with an Application to Cooperative Advertising

Alain Bensoussan, Shaokuan Chen, Anshuman Chutani, Suresh P. Sethi, Chi Chung Siu, and Sheung Chi Phillip Yam

SIAM Journal on Control and Optimization 2019 57:5, 3413-3444

#### On the Response of a Two-Level System to Two-Photon Inputs

Z. Y. Dong, G. F. Zhang, and N. H. Amini

SIAM Journal on Control and Optimization 2019 57:5, 3445-3470

#### Abstractions of Varying Decentralization Degree for Reachability of Coupled Multiagent Systems

Dimitris Boskos and Dimos V. Dimarogonas

SIAM Journal on Control and Optimization 2019 57:5, 3471-3495

#### A Hybrid Finite-Dimensional RHC for Stabilization of Time-Varying Parabolic Equations

Behzad Azmi and Karl Kunisch

SIAM Journal on Control and Optimization 2019 57:5, 3496-3526

### Carleman Estimates of Some Stochastic Degenerate Parabolic Equations and Application

Xu Liu and Yongyi Yu

SIAM Journal on Control and Optimization 2019 57:5, 3527-3552

### Robust Consensus for Multi-Agent Systems Communicating over Stochastic Uncertain Networks

Zhongkui Li and Jie Chen

SIAM Journal on Control and Optimization 2019 57:5, 3553-3570

#### Optimal Distributed Control of a Stochastic Cahn--Hilliard Equation

Luca Scarpa

SIAM Journal on Control and Optimization 2019 57:5, 3571-3602