

SIAM Conference on Control and Its Applications 2019

Chengdu, China
19-21 June 2019

Editors:

William S. Levine
Richard Stockbridge

ISBN: 978-1-5108-8925-5

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2019) by SIAM: Society for Industrial and Applied Mathematics
All rights reserved.

Printed by Curran Associates, Inc. (2019)

For permission requests, please contact SIAM: Society for Industrial and Applied Mathematics
at the address below.

SIAM
3600 Market Street, 6th Floor
Philadelphia, PA 19104-2688 USA

Phone: (215) 382-9800
Fax: (215) 386-7999

siambooks@siam.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

A Geometric Approach to Binocular Sensing	1
<i>Bijoy K. Ghosh, Neranjaka Jayarathne</i>	
Evaluation of Control Strategies for a Tele-manipulated Robotic System for Remote Trauma Assessment	7
<i>B. Mathur, A. Topiwala, H. Saeidi, T. Fleiter, A. Krieger</i>	
Topological Properties for Compact Stable Attractors in R^n	15
<i>Emmanuel Bernuau, Emmanuel Moulay, Patrick Coirault, Qing Hui</i>	
Identification of Nonlinear Systems	22
<i>Adil Brouri, Laila Kadi</i>	
Modeling and Simulation of Infrared Radiation from Aerial Combat Aircraft by Fluent	25
<i>W. Sun, B. Wang</i>	
Lie-algebraic Connections between Two Classes of Risk-sensitive Performance Criteria for Linear Quantum Stochastic Systems	30
<i>Igor G. Vladimirov, Ian R. Petersen, Matthew R. James</i>	
Numerical Solution of Potential Games arising in the Control of Cooperative Automatic Vehicles	38
<i>Andreas Britzelmeier, Axel Dreves, Matthias Gerds</i>	
Deep Convolutional Neural Network for Motion Deblurring	46
<i>Yu Zhou, Rui Fang, Peng Liu, Kai Liu</i>	
An Optimal Consumption-Investment Problem on a Finite Horizon	52
<i>Dan Ren</i>	
An Iterative Method for Final Time Optimization in Nonlinear Optimal Control	60
<i>Alberto De Marchi, Matthias Gerds</i>	
State and Disturbance Estimator for Unstable Reaction-Advection-Diffusion PDE with Boundary Disturbance	67
<i>Dong Zhang, Shu-Xia Tang, Scott J. Moura</i>	
Exploiting Characteristics in Stationary Action Problems	75
<i>Peter M. Dower, William M. McEneaney, Ivan Yegorov</i>	
Iterated Staticization and Efficient Solution of Conservative and Quantum Systems	83
<i>Ruobing Zhao, William M. McEneaney</i>	
Detection and Control of Surface Scar of Aircraft Rivet based on Image Processing	91
<i>Danni Liu, Shiqi Jiang, Guomin Liu, Honghui Xiang, Zhigang Liu</i>	
Control of a Pollutant Decontamination Process with Input Delay	98
<i>Long Wang, Jie Qi, Mamadou Diagne</i>	
Dynamic Polynomial Stabilization of a 1D Wave Equation	105
<i>Lassi Paunonen, Jukka-Pekka Humaloja</i>	
A New Stochastic Model for Stock Price with Delay Effects	110
<i>Tao Pang, Yicong Yong</i>	
Multilinear Time Invariant System Theory	118
<i>Can Chen, Amit Surana, Anthony Bloch, Indika Rajapakse</i>	
Author Index	