Fourth Biannual Meeting on Systems and Control Theory

**Queen's University
Kingston, Ontario
May 13-15, 2010**

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Program

PDF version

All talks are in Chernoff Hall, Room 202. See the local page for location information.

Thursday, May 13

Time	Speaker	Title
8:30-9:30	Velimir Jurdjevic	Optimal Control, Geometry and Mechanics
9:30-10:00	Maria Barbero-Liñán	How to Describe Infinitesimally the Symmetric Product?
10:00-10:30	Dmitry Gromov	Hybrid Thermodynamic Control Systems with Phase Transitions
10:30-10:50	**Coffee Break**	
10:50-11:50	Peter Caines	Mean Field Social Dynamics with Egoistic and Altruistic Agents: A Nash Game Formulation
11:50-12:20	Mojtaba Nourian	Adaptive Mean Field (NCE) Methodology in Leader-Follower Stochastic Dynamic Games
12:20-12:50	Arman Kizilkale	Stochastic Adaptive Nash Certainty Equivalence Control with Population Parameter Estimation
12:50-2:00	**Lunch**	
2:00-3:00	Lacra Pavel	Global Classical Solvability of Initial-Boundary Problems for Hyperbolic Lotka-Volterra Systems and Lyapunov-Based Boundary Control
3:00-4:00	Kirsten Morris	Second-Order Systems with Acceleration Measurements
4:00-4:20	**Coffee Break**	
4:20-5:20	Minyi Huang	Stochastic Approximation for Consensus: Asynchronous Algorithms and Mean Square Convergence
5:20-5:50	Peng Jia	Analysis of Two Classes of Decentralized Decision Systems: Quantized Single and Double-Sided Auctions in Competitive Markets

Friday, May 14

Time	Speaker	Title
8:30-9:30	Manfredi Maggiore	Virtual Holonomic Constraints for Euler-Lagrange Systems
9:30-10:00	Farzin Taringoo	Gradient-Geodesic HMP Algorithms and the Optimization of Hybrid Systems

Time	Speaker	Title
10:00-10:30	Cesar Aguilar	Small-Time Local Controllability of Homogeneous Control-Affine Systems
10:30-10:50	**Coffee Break**	
10:50-11:50	Mireille Broucke	Reach Control Problem
11:50-12:20	Bruce Francis	Switched-Mode Systems: Problems Motivated by Power Converters, Part I
12:20-12:50	Ben Tsai	Switched-Mode Systems: Problems Motivated by Power Converters, Part II
12:50-2:00	**Lunch**	
2:00-3:00	Brian Ingalls	Negative Feedback and Robustness Trade-offs in Systems Biology
3:00-3:30	Dhanaraja Kasinathan	Optimal Actuator Location for H_∞ Control
3:30-4:00	Jordan Ang	Integral Feedback Control in the Context of Synthetic Regulatory Gene Networks
4:00-4:30	Pantelis Isaiah	A Connection Between Feedback Stabilisation and Local Controllability
4:30-4:50	**Coffee Break**	
4:50-5:20	Kai Hoeffner	Constructive Decomposition of the Design Parameters in IDA-PBC
5:20-5:50	Nick Hudon	Dissipative Decomposition and Local Stabilization of Control Affine Systems
5:50-6:20	James Forbes	Flexible Manipulator Control Accommodating Passivity Violations: Theory and Experiments

Saturday, May 15

Time	Speaker	Title
8:30-9:30	Roland Malhamé	Complex Systems: The Case of Unreliable Manufacturing Transfer Lines
9:30-10:30	Shreyas Sundaram	Structured System Theory and its Application to Information Dissemination in Distributed Systems
10:30-11:30	Serdar Yuksel	On Optimization of Information Channels in Stochastic Control