

Meeting on Nonlinear Control Theory and its Applications

May 5–6, 2004
Queen's University
Kingston, ON

Short programme (last revised: 12/04/2004)

May 5:

8:59:45-9:00: Opening remarks

9:00-10:00: Manfredi Maggiore, *A separation principle for nonlinear systems*

10:00-10:30: Chris Nielsen, *Maneuver regulation, transverse feedback linearization and zero dynamics*

10:30-10:45: Break

10:45-11:45 Martin Guay, *Observer linearization by generalized transformations*

11:45-12:15: Darryl DeHaan, *Extremum-seeking control of nonlinear, state-constrained systems*

12:15-1:30: Lunch

1:30-2:00: Meg Gao, *Design of robust gain-scheduled model predictive controllers for nonlinear processes*

2:00-3:00: Ron Hirschorn, *Hybrid sliding mode control for multi-input nonlinear systems*

3:00-3:30: Dmitry Voytsekhovskiy, *Stabilization of single-input nonlinear systems with sliding mode control*

3:30-4:00: Break

4:00-5:00: Daniel Miller, *Nonlinear and linear approaches to adaptive control*

5:00-6:00: Mireille Broucke, *Hybrid optimal synthesis and geometric time optimal control*

6:00-6:30 Gino Labinaz, *Viability of hybrid systems*

May 6:

9:00-10:00: Brian Ingalls, *System biology: Control theoretic analysis of biochemical networks*

10:00-10:30: Leonard Vu, *IOSS for singularly perturbed systems*

10:30-10:45: Break

10:45-11:45: Kirsten Morris, *Dissipative controller design*

11:45-1:15: Lunch

1:15-2:15: Andrew Lewis, *Musings on controllability and stabilisability*

2:15-2:45: David Tyner, *Controllability and motion planning for mechanical systems*

2:45-3:15: Joshua Marshall, *Exploring the collective behaviour of wheeled-vehicles in cyclic pursuit*

3:15-3:45: Zhiyun Lin, *Feasibility for formation stabilization of multiple unicycles*

3:45-4:15: Sehjung Kim, *Stability of linear switching system with delayed feedback control*