

4th Southern California Non-Linear Control Workshop

May 31 - June 1, 2002 ♦ UC Santa Barbara

Friday, May 31, 2002

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Engineering II Pavilion

General Info

9:00 Pedro Aguiar (UCSB) *"Nonlinear Motion Control of Nonholonomic and Underactuated Systems"*

Program

9:30 Dave van Gogh (Caltech) *"Caltech MVWT flight tests"*

10:00 Mihailo Jovanovic (UCSB) *"Input-Output Analysis of the Linearized Navier-Stokes Equations"*

Directions

10:30 Break

Hotels

11:00 H. Hakan Kizilocak (USC) *"Dynamic probabilistic maps for navigation"*

11:30 Dragan Dacic (UCSB) *"Hierarchical aggregation for optimization"*

12:00 Lunch

Institute for Theoretical Physics, Room 1003 (note change in location from the morning)

1:30 Yiming Lou (UCLA) *"Estimation and Control of Surface Roughness in Thin Film Growth Using Kinetic Monte-Carlo Models"*

2:00 Mingheng Li (UCLA) *"Modeling and Control of Nanostructured Coatings Processing Accounting for Powder Size Distribution"*

2:30 break

2:45 Feng-Li Lian (Caltech) *"Control and communication performance in networked multi-vehicle systems"*

3:15 Lars Cremean (Caltech) *"Information flow for multi-vehicle systems"*

3:45 Break

4:00 Mehmet Akar (USC) *"Joint power and handoff control using a hybrid systems framework"*

4:30 Nebojsa Petrovacki (UCSB) *"Gain regulation in Erbium-doped fiber amplifiers"*

Saturday, June 1, 2002

Engineering II Pavilion

9:00 Antonis Papachrisodoulou (Caltech) *"Lyapunov function synthesis using the Sum of Squares decomposition"*

9:30 Gene Grimm (UCSB) *"On robust LMI-based linear anti-windup design: optimizing the unconstrained response recovery"*

10:00 Nael El-Farra and Prashant Mhaskar (UCLA) *"Uniting Bounded Control and MPC for Stabilization Constrained Linear Systems"*

10:30 Break

11:00 Olga Koroleva (UCSD) *"Nonlinear control of fluid flow networks"*

11:30 Dmitri Vainchtein (UCSB) *"On the optimal control of a pair of point vortices"*

12:00 Lunch

1:00 Baris Fidan (USC) *"Backstepping control of LTV systems with known and unknown parameters"*

1:30 Andras Balogh (UCSD) *"Stability of difference equations arising in infinite dimensional backstepping"*

2:00 Break

2:30 Ryan Zurakowski (UCSB) *"Disease modeling and treatment scheduling for HIV"*

3:00 Jorge Goncalves, Brian Ingalls (Caltech) *"Conservation of Robustness and Application to Biological Systems"*

3:30 Poonsuk Lohsoonthorn (USC) *"Nonlinear switching dynamics models of spinal surface electromyography"*

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