

WORKSHOP PROGRAM

Graduate Students in Systems and Control – GSC'2007, 18/4/07

Technion, Department of Electrical Engineering, Room 1003

GATHERING AND MORNING COFFEE (8:45-9:00)

09:00	Welcome and announcements
09:10	Design of a Robust Voltage Controller for an Induction Generator in an Autonomous Power System Using a Genetic Algorithm Vitaly Spitsa , EE, Technion. Ph.D. supervisors: A. Alexandrovitz and E. Zeheb
09:35	On the Covariance Singularity of Quaternion Estimators Avishay Carmi , AE, Technion. Ph.D. supervisor: Y. Oshman
10:00	Optimal Control Theory Predicts Complex Patterns of Neural Activity Observed in the Primary Motor Cortex Ehud Trainin , EE, Technion. Ph.D. supervisor: R. Meir
10:25	Perception of Stiffness through Bilateral Teleoperation Ilana Nisky , BME, BGU. Ph.D. supervisor: A. Karniel

COFFEE BREAK (10:50-11:10)

11:10	Artificial Neural Networks = Fuzzy Rule Bases Eyal Kolman , EE, TAU. Ph.D. supervisor: M. Margaliot
11:35	Nonlinear Adaptive H_∞ Output Feedback Control for Robotic Systems Itzhak Levi , ME, BGU. Ph.D. supervisors: N. Berman and A. Ailon
12:00	Computer Vision-Based Compensation of Gyro Bias and Scale-Factor Errors Maxim Goldshtein , AE, Technion. M.Sc. supervisors: Y. Oshman and T. Efrati

LUNCH BREAK (12:25-13:45): Lunch buffet on 1st floor

13:45	Minimizing the Number of Affected Aircraft in Optimal Air Traffic Re-Planning Lior Ben-Yishai , AE, Technion. M.Sc. supervisors: M. Idan and G. Iosilevskii
14:10	Modeling and Control of Dynamic Systems with Elements Governed by the Wave Equation Irit Peled , ME, Technion. Ph.D. supervisor: Y. Halevi
14:35	Cross Entropy Data Association in Multi-Target Tracking Daniel Sigalov , EE, Technion. M.Sc. supervisor: N. Shimkin

COFFEE BREAK (15:00-15:20)

15:20	H_∞ Control of Systems with Distributed Delay: Discretized Lyapunov Functional Method Gennady Tsodik , EE, TAU. M.Sc. supervisors: E. Fridman and U. Shaked
15:45	Global Confidence Bound Algorithms for the Exploration-Exploitation Tradeoff in Reinforcement Learning Hillel Chapman , EE, Technion. M.Sc. supervisor: N. Shimkin
16:10	Stability of Planar Spider-Robots Under Contact Stiffness Control Ori Reiner , ME, Technion. M.Sc. supervisor: E. Rimon
16:35	Estimation-Guided Guidance Ilan Shaviv , AE, Technion. Ph.D. supervisor: Y. Oshman