

## WORKSHOP PROGRAM

**Graduate Students in Systems and Control – GSC'08, Monday, April 7, 2008**  
Tel Aviv University, School of Electrical Engineering, "Binyan Kitot", Room 101

### **GATHERING AND MORNING COFFEE (8:30-8:50)**

08:50	Welcome and announcements
09:00	Adaptive aggregation for reinforcement learning with efficient exploration in deterministic domains <b>Andrey Bernstein</b> , <sup>3</sup> Elec. Eng., Technion, supervisor: Nahum Shimkin
09:30	Integral sliding mode approach to adjustment of high-order sliding-modes <b>Lela Dorel</b> , <sup>3</sup> Applied Math., TAU, supervisor: Arie Levant
10:00	$H_\infty$ sampled data control of systems with time-delays <b>Vladimir Suplin</b> , <sup>3</sup> Elec. Eng., TAU, supervisors: Uri Shaked and Emilia Fridman
10:30	Robust stabilization of an unmanned motorcycle <b>Uri Nenner</b> , <sup>2</sup> Civil Eng., Technion, supervisors: Raphael Linker and Per-Olof Gutman

### **COFFEE BREAK (11:00-11:20)**

11:20	Visual tracking: a particle filter/template matching approach <b>Arie Nakhmani</b> , <sup>3</sup> Elec. Eng., Technion, supervisors: Allen Tannenbaum and Ezra Zeheb
11:50	Efficient reinforcement learning in parameterized models <b>Kirill Dyagilev</b> , <sup>2</sup> Elec. Eng., Technion, supervisor: Nahum Shimkin
12:20	Sensor fusion of GPS with omni-directional image registration for off-road autonomous vehicle path tracking <b>Yaron Greenhut</b> , <sup>2</sup> Civil Eng., Technion, supervisor: Per-Olof Gutman
12:50	Probability-guaranteed full-order and reduced-order robust $H_\infty$ filtering <b>Shmuel Boyarski</b> , <sup>3</sup> Elec. Eng., TAU, supervisor: Uri Shaked

### **LUNCH BREAK (13:20-14:30)**

14:30	On the parameterization of stabilizing solutions to general four-block model matching problems <b>Maxim Kristalny</b> , <sup>3</sup> Mech. Eng., Technion, supervisor: Leonid Mirkin
15:00	Mathematical modeling of the $\lambda$ switch: a fuzzy logic approach <b>Dmitriy Laschov</b> , <sup>2</sup> Elec. Eng., TAU, supervisor: Michael Margaliot
15:30	Robust induced $L_\infty$ norm optimization of linear parameter varying systems <b>Neta-ly Rahamim</b> , <sup>2</sup> Elec. Eng., TAU, supervisors: Isaac Yaesh and Uri Shaked
16:00	A loop shifting technique for multiple delay MIMO systems <b>Dmitry Shneiderman</b> , <sup>3</sup> Mech. Eng., Technion, supervisors: Zalman J. Palmor and Leonid Mirkin

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<sup>2</sup> M.Sc. student

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