

**Graduate Students in Systems and Control – GSC'10, 24/5/2010
Technion, Faculty of Aerospace Engineering, Room 235 (Auditorium)**

Under the auspices of IAAC – the Israeli Association for Automatic Control

*Sponsored by
Bernard M. Gordon Center for Systems Engineering at the Technion*



CALL FOR PARTICIPATION

Dear Friends and Colleagues,

You are cordially invited to attend the annual workshop of graduate students in Systems and Control (GSC'10). The event will take place on Monday, May 24, 2010. We are pleased to host it, this time around, at the Technion, in the Department of Aerospace Engineering, room 235 (auditorium).

The workshop program is attached below, along with a map of the Technion.

As always, this yearly event provides a panorama of the varied research that is carried out in these areas in the various research institutions and departments in Israel. Moreover, the meeting

- Provides a unique opportunity for graduate students to present their work before a professional audience, and to observe the work of their peers.
- Allows an informal meeting between faculty, industry, and students.
- Provides an opportunity to industry people, as prospective employers, to get acquainted with the best students in systems and control (and vice versa).

The success of the event obviously depends on the participation of senior people from academia and industry – in addition, of course, to the graduate students themselves. I hope that you will be able to join us on May 24.

Attendance is free, open to all, and includes a free lunch...

To enter the Technion please present the attached event's program at the gate. For further details please contact: Alice Goodman, Tel. 04-8292713, alice@aerodyne.technion.ac.il

With best wishes,

Tal Shima
GSC'10 organizer

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PROGRAM

8:30	Gathering and Light Refreshments
9:00	Opening
9:10	L ₂ Optimization in Discrete FIR Estimation: How to Outperform Levinson-Durbin Yaron Levinson , ME, Technion, Ph.D. supervisor: L. Mirkin
9:35	State Estimation in Hybrid Systems with a Bounded Number of Mode Transitions Daniel Sigalov , Applied Math, Technion, Ph.D. supervisor: Y. Oshman
10:00	Relative State Estimation of Non-Cooperative Spacecraft using Stereoscopic Vision Shai Segal , AE, Technion, Ph.D. supervisors: P. Gurfil and A. Carmi
10:25	Linear State Space Theory in the White Noise Space Setting Ariel Pinhas , Math, BGU, M.Sc. supervisors: D. Alpay and D. Levanony
10:50	Coffee Break
11:15	Near-Optimal Missile Guidance with Pulse-Motor Control Logic Erez Sigal , AE, Technion, Ph.D. supervisor: J.Z. Ben-Asher
11:40	Cooperative Guidance Strategies for an Aircraft–Defending Missile Team Andrey Perelman , AE, Technion, M.Sc. supervisor: T. Shima
12:05	Modeling, Identification and Robust Control Design of a Laboratory Helicopter Sergey Nazarov , ME, Technion, M.Sc. supervisor: L. Mirkin
12:30	Lunch
13:45	Limit Cycle Existence Condition in Control Systems with Backlash and Friction Arkady Lichtsinder , CEE, Technion, Ph.D. supervisor: P-O. Gutman
14:10	Sampled-Data Stabilization of a Class of Parabolic Systems Anatoly Blighovsky , EE, TAU, M.Sc. supervisor: E. Fridman
14:35	Explicit Construction of the Barabanov Norm for the Discrete - Time Planar Positive Absolute Stability Problem Ron Teichner , EE, TAU, M.Sc. supervisor: M. Margaliot
15:00	Analysis of Discrete - Time Linear Switched Systems: A Variational Approach Tal Monovich , EE, TAU, M.Sc. supervisor: M. Margaliot
15:25	Coffee Break
15:45	Stability Analysis of Networked Control Systems: a Discontinuous Lyapunov Functional Approach Kun Liu , EE, TAU, Ph.D. supervisors: E. Fridman and U. Shaked
16:10	Robust Stability and Stabilization of Linear Switched Systems with Dwell Time Liron Its'haki-Allerhand , EE, TAU, M.Sc. supervisor: U. Shaked
16:35	Simple Adaptive H _∞ Control for Linear Systems with Delayed Measurements Rabin Ben Yamin , EE, TAU, Ph.D. supervisors: U. Shaked and I. Yaesh
17:00	Optimal Traffic Light Control Jack Haddad , CEE, Technion, Ph.D. supervisors: P-O. Gutman and D. Mahalel

