
GSC'09 - The Annual Workshop of Graduate Students in Systems & Control

Monday, April 20, 2009
Ben-Gurion University, Mechanical Engineering Dept., Building 55, Room 117

CALL FOR PARTICIPATION

Sponsored by

*IAAC – the Israeli Association for Automatic Control
The Pearlstone Center for Aeronautical Engineering Studies
The Paul Ivanier Center for Robotics Research and Production Management*

Dear Friends and Colleagues,

You are cordially invited to attend the annual workshop of graduate students in the fields of Control and Systems Theory (GSC'09). The meeting will take place on Monday, April 20, 2009, at Ben-Gurion University.

The program and schedule are attached below.

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 April 20.

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

Please contact me as soon as possible in regards of car entrance permits to BGU's campus, as they can be provided upon request only.

Looking forward to meeting you,
Khag Sameakh,

Daniel Choukroun
GSC'09 organizer

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WORKSHOP PROGRAM

Graduate Students in Systems and Control – GSC'2009, 20/4/09

Ben Gurion University, Mechanical Engineering Dept., Building 55, Room 117

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

09:00	Welcome and announcements
09:10	Perceptuomotor Transparency in Bilateral Teleoperation Ilana Nisky , BME, BGU, Ph.D. supervisor: A. Karniel
09:30	Robustness to Delay Uncertainties in Sampled-Data Systems Igal Alterman , ME, Technion, M.Sc. supervisor: L. Mirkin
09:50	A Convex Optimization Approach to Stability of Linear Systems with Uncertain Delays Kun Liu , EE, TAU, Ph.D. supervisors: E. Fridman and U. Shaked
10:10	On the Dynamic Resilience and Novel Control Structures for Plants with Multiple Dead Times Dmitry Shneiderman , ME, Technion, Ph.D. supervisors: Z. Palmor and L. Mirkin
10:30	Robust Simplified Adaptive PI Model Following for Linear Time-Delay Systems With Guaranteed H_∞ Performance Rabin Ben Yamin , EE, TAU, Ph.D. supervisors: U. Shaked and I. Yaesh

COFFEE BREAK (10:50-11:10)

11:10	Analysis of Learning Near Temporary Minima Using the All Permutations Fuzzy Rule-Base Ido Roth , EE, TAU, M.Sc. supervisor: M. Margaliot
11:30	Optimal Steady-State Traffic Control for Isolated Intersections Jack Haddad , CEE, Technion. Ph.D. supervisors: D. Mahalel and P-O. Gutman
11:50	Optimal Flight Paths for Emergency Landing Avishai Adler , EE, Technion, M.Sc. supervisors: A. Bar-Gill and N. Shimkin
12:10	Efficient and Safe On-Line Motion Planning in Dynamic Environments Oren Gal , ME, Technion, M.Sc. supervisors: E. Rimon and Z. Shiller
12:30	Controllers for Kinematic and Dynamic Models of Mobile Robots: Tracking a Time-Parameterized Path and Driving in Convoy Ilan Zohar , ECE, BGU, M.Sc. supervisor: A. Ailon

LUNCH BREAK (12:50-13:50): Lunch at the Faculty Restaurant

13:50	White Noise Approach to Linear Stochastic Systems and Stochastic Processes and Applications to Prediction Theory Ariel Pinhas , Math, BGU, M.Sc. supervisor: D. Alpay
14:10	On the H_2 Four-Block Model Matching Problem with Preview Maxim Kristalny , ME, Technion, Ph.D. supervisor: L. Mirkin
14:30	Improved Conditions for Nonquadratic Stability and H_∞ Analysis Liron Its'haki-Allerhand , EE, TAU. M.Sc. supervisor: U. Shaked
14:50	Finite Nyquist and Finite Inclusions Theorems for Disjoint Stability Yuri Dolgin , EE, Technion, Ph.D. supervisor: E. Zehab
15:10	Periodic Optimization of Planar Systems Makes Sense Ido Bright , Math, Weizmann, Ph.D. supervisor: Z. Artstein

COFFEE BREAK (15:30-15:50)

15:50	Real-Time Mosaic-Aided Aerial Navigation Vadim Indelman , AE, Technion, M.Sc. supervisor: P. Gurfil
16:10	Network Time Synchronization using Decentralized Kalman Filtering Maxime Cohen , EE, Technion, M.Sc. supervisor: N. Shimkin
16:30	Two Machines Infinite Bus Power System Dynamic Simulation and Stability Improvement with Wave-Based Control Method PSS David Sarussi , ECE, BGU, Ph.D. supervisor: R. Rabinovici
16:50	MIMO H^∞ Control of Temperature and Humidity inside Greenhouses Cooled by Fogging Systems Waleed Agmail , CEE, Technion, M.Sc. supervisors: R. Linker, A. Arbel and L. Mirkin