

WORKSHOP PROGRAM

GRADUATE STUDENTS IN CONTROL - GSC - 2005

JANUARY 3, 2005, ROOM 117, DEPT. OF MECH. ENG., BEN GURION U. OF THE NEGEV

WELCOMING AND ANNOUNCEMENTS (8:50-9:00)

- 09:00 *Gaussian Mixture Kalman Filter (GMKF).*
Igal Bilik, EE, BGU, Supervisor(s): J. Tabrikian.
- 09:25 *Robust set-point regulation for robotic systems.*
Itzhack Levy, ME, BGU, Supervisor(s): N. Berman & A. Ailon.
- 09:50 *Nullification by memoryless output feedback.*
Gera Weiss, Weizmann, Supervisor(s): Z. Artstein.
- 10:15 *Auxiliary vision based control systems for off-road autonomous and semi-autonomous vehicles.*
Yaron Greenhut, CEE, Technion, Supervisor(s): Per-Olof Gutman.

COFFEE BREAK (10:40 - 10:55)

- 10:55 *Optimal filtering in the presence of faults: algorithms and performance measures.*
Illia Rapoport, AE, Technion, Supervisor(s): Y. Oshman.
- 11:20 *H_∞ control of linear uncertain time-delay systems - a projection approach.*
Vladimir Suplin, EE, TAU, Supervisor(s): U. Shaked.
- 11:45 *Strong consistency of a family of model error selection rules for estimating the parameters of 2-D sinusoids in white noise.*
Mark Kliger, EE, BGU, Supervisor(s): J. Francos & D. Levanony.
- 12:10 *Autonomous vehicles: trajectory following.*
Shai Arogeti, ME, BGU, Supervisor(s): N. Berman.
- 12:35 *Estimating attitude from vector observations using a genetic algorithm embedded quaternion particle filter.*
Avishy Carmi, AE, Technion, Supervisor(s): Y. Oshman.

LUNCH BREAK (13:00 - 14:15)

- 14:15 *Zero set application to voltage stability analysis of power system with uncertain load characteristic.*
Vitaly Spitsa, EE, Technion, Supervisor(s): E. Zeheb & A. Alexandrovitz
- 14:40 *A new recursive quaternion estimation.*
Yizhar Cohen, AE, Technion, Supervisor(s): I. Bar-Itzhack.
- 15:05 *Simplified adaptive control of F-16 aircraft pitch angle-of-attack.*
Teddy Tossef, EE, TAU, Supervisor(s): U. Shaked.

COFFEE BREAK (15:30 - 15:45)

- 15:45 *A stochastic approach to fusion of estimation and guidance.*
Ilan Shaviv, AE, Technion, Supervisor(s): Y. Oshman.
- 16:10 *Performance limitation of decentralized controllers.*
Arkady Lichtsinder, EE, TAU, Supervisor(s): O. Yaniv.
- 16:35 *Towards motion planning and control of walking multi-legged robots under gravity.*
Yizhar Or, ME, Technion, Supervisor(s): E. Rimon.
- 17:00 *Robust feedback synthesis for nonlinear and quasi-linear time varying plants.*
Shmuel Safanov, EE, TAU, Supervisor(s): O. Yaniv.