

IAAC<sup>3</sup>

IAAC Control Conference, 5 July 2021

### Registration Form

Name: \_\_\_\_\_  
Affiliation: \_\_\_\_\_  
Address: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Supervisor (for students): \_\_\_\_\_

### Method of payment

- Wire transfer of ILS \_\_\_\_\_, bank requisites:  
- beneficiary: איגוד ישראלי לבקרה אוטומטית (איב"א)  
- bank: Leumi (10)  
- branch: 882  
- account: 43952575

Charge to institutional account \_\_\_\_\_

On-site payment (cash or checks only)

Filled registration forms, with a proof of transfer if applicable, should be e-mailed to

[mira.aran.iaac@gmail.com](mailto:mira.aran.iaac@gmail.com)

### Registration rates

Regular rates

- early (until 20/06/2021): ILS 200
- late (from 21/06/2021): ILS 300

Student rates (full-time graduate students only)

- early (until 20/06/2021): ILS 0
- late (from 21/06/2021): ILS 100

Registration includes tea/coffee breaks and full lunch.

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כנס בקרה של איב"א, 5 ביולי 2021

### טופס הרשמה

שם: \_\_\_\_\_  
מקום עבודה: \_\_\_\_\_  
כתובת: \_\_\_\_\_  
דוא"ל: \_\_\_\_\_  
טלפון: \_\_\_\_\_  
מנחה (עבור סטודנטים): \_\_\_\_\_

### אמצעי תשלום

- העברה בנקאית של \_\_\_\_\_ ₪, פרטי הבנק:  
- מוטב: איגוד ישראלי לבקרה אוטומטית (איב"א)  
- בנק: לאומי (10)  
- סניף: 882  
- חשבון: 43952575

לחיוב תקציב מוסדי שמספרו \_\_\_\_\_

תשלום במקום (המחאה או מזומן בלבד)

את הטופס, עם אישור העברה (אם רלוונטי), יש לשלוח לכתובת הדוא"ל

[mira.aran.iaac@gmail.com](mailto:mira.aran.iaac@gmail.com)

### דמי השתתפות

רישום מלא

- מוקדם (עד 20/06/2021): ₪ 200
  - מאוחר (החל מ-21/06/2021): ₪ 300
- רישום סטודנט (סט' לתארים מתקדמים בזמן מלא בלבד)
- מוקדם (עד 20/06/2021): ₪ 0
  - מאוחר (החל מ-21/06/2021): ₪ 100

איגוד ישראלי לבקרה אוטומטית

IAAC<sup>3</sup>

IAAC Control Conference

– חוזרים לחיים מבוקרים – Back to life in control  
to celebrate that we can finally, after more than a year,  
listen to each other in person

- PROGRAM -

Organizer:

- ▶ Per-Olof Gutman, Technion

Sponsors:

- ▶ Bernard M. Gordon Center for System Engineering at the Technion
- ▶ Technion – Israel Institute of Technology
- ▶ Faculty of Mechanical Engineering, Technion

Official wine purveyor:

- ▶ VITKIN WINERY ~ יקב ויתקין



Shirley and Manny Ravet Auditorium 6  
D. Dan and Betty Kahn Mechanical Engineering  
Building, Technion

Monday, 5 July 2021

**D**uring the miserable corona year, IAAC refrained from organizing events (except GSC for students), since it was painfully felt that the Zoom or hybrid formats were not suitable. Now, when larger gatherings are allowed, we are going to celebrate!

At IAAC<sup>3</sup> we are happy to present some academic and industrial research performed during the corona year. There are 18 attractive presentations in four sessions covering Controller Synthesis, Applications, Systems Theory, and Navigation/Estimation. Hopefully, everyone will find something of particular interest, and also unexpected gems that pique the curiosity.

Most importantly, however, is to meet old and new friends and colleagues for fruitful discussions after the dry corona year. To reach this goal, please come in multitudes, and please help us publicize this event by sending this Invitation to relevant researchers, engineers, and students who may not be on our mailing list.

Looking forward to seeing you all at IAAC<sup>3</sup>!

Per-Olof Gutman, IAAC<sup>3</sup> Organizer

Leonid Mirkin, IAAC President

8:15-8:50	Registration and light breakfast
8:50-9:00	Opening
9:00-9:20	<b>Oded Yaniv</b> (Gevasol), <i>Synthesizing all filtered PI/PID controllers satisfying gain, phase &amp; sensitivity specifications</i>
9:20-9:40	<b>Per-Olof Gutman</b> (Technion), <i>Interpolation-based predictive control</i>
9:40-10:00	<b>Isaac Yaesh</b> (Elbit), <i>Static output feedback revisited</i>
10:00-10:20	<b>Leonid Mirkin</b> (Technion), <i>Internal model for state feedback revisited</i>
10:20-10:40	<b>Marco Fabris</b> (Technion), <i>Secure consensus via objective coding: robustness analysis to channel tampering</i>
10:40-11:10	Coffe / tea break
11:10-11:30	<b>Izhak Bucher</b> (Technion), <i>Auto-resonance control of a nonlinear, parametrically excited system</i>
11:30-11:50	<b>Ilana Nisky</b> (BGU), <i>Adaptation to time-dependent perturbations in robot-assisted surgery training</i>
11:50-12:10	<b>Maxim Kristalny</b> (Rafael), <i>On the topology of interaction control with force and velocity measurements</i>
12:10-12:30	<b>Yossi Ben-Asher</b> (Technion), <i>Time-optimal trajectories for a car-like mobile robot</i>
12:30-13:50	Lunch (Students Gallery)
13:50-14:10	<b>Eduard Eitelberg</b> (Ort Braude), <i>Population and wealth age distribution dynamics</i>
14:10-14:30	<b>Izchak Lewkowicz</b> (BGU), <i>Quantitatively hyper-positive real functions</i>
14:30-14:50	<b>Daniel Zelazo</b> (Technion), <i>On structural rank and network resilience</i>
14:50-15:10	<b>Arkady Lichtsinder</b> (Rafael), <i>A computationally reliable stick-slip friction model with pre-sliding effect</i>
15:10-15:30	<b>Izchak Lewkowicz</b> (BGU), <i>Realizations of continuous/discrete positive/bounded-real systems are interrelated</i>
15:30-16:00	Coffe / tea break
16:00-16:20	<b>Ron Meir</b> (Technion), <i>Discrete-time Kalman filter error bounds in the presence of misspecified measurements</i>
16:20-16:40	<b>Daniel Rubin</b> (GM), <i>Vision based estimation of vehicle states</i>
16:40-17:00	<b>Martin Weiss</b> (Technion), <i>Optimal pursuit guidance with delayed engagement decisions</i>
17:00-17:20	<b>Héctor P. Rotstein</b> (Rafael), <i>From parking to landing (and other aerial exploration problems)</i>
17:20-18:00	Closing