

## 2012 Workshop and Exhibition in Navigation Systems and Applications

As professionals interested in Navigation Systems, we are fortunate that so much is happening in the world of navigation. So much, indeed, that it is sometimes hard to keep track with the progress: four GNSS programs reaching major milestones, chip technology offering not only computational power but also inertial sensors with ever increasing accuracy, continuous progress in more established technologies, affordable precise time-keeping capabilities, exciting new applications, and the list follows.

The Israel Association of Automatic Control has historically been a key factor in the progress of the navigation science in Israel. After a few years interlude, we are restarting this tradition with the Workshop and Exhibition "Navigation Systems and Applications." We have put together a strong technical program including twelve talks on some of the most pressing topics in the field: half the talks unsurprisingly dealing with GNSS and general radio navigation, with a second half dealing with inertial sensing and navigation algorithms. In parallel with the talks, we are hosting a technical exhibit in which new and established products are presented and contacts with companies and suppliers can be made.

Besides the technical objectives, it is our hope that the Workshop will provide the opportunity for networking amongst all the participants, including policy makers, researchers, users and suppliers.

We are looking forward to a very successful event.

Dr. Hector Rotstein,  
Rafael

## The program

08:45 – 09:15	<b>Registration</b>	14:00 – 14:30	Development of a north finding (AT) MEMS gyro. William Kraetz. Principal engineer, Honeywell Ltd
09:15 – 09:30	Opening and welcome words Prof. Per Olof Gutman, President, Israel Association of Automatic Control, and Dr. Hector Rotstein, workshop organizer, Rafael	14:30 – 15:00	New applications of nonlinear filtering to GPS/GNSS. Prof. Ben Zion Bobrovsky, Elad Tzoreff and Gabi Shahmayster, School of Electrical Engineering, Tel Aviv University.
09:30 – 10:00	New developments in GPS. Kim Kaisti, VP Business Development and Co-Founder, Fastrax Oy..	15:00 – 15:30	A new method and system for accurate north finding – implementation in target acquisition and artillery platforms. Dr. Amit Brandes, Dr. Boris Bronstein, Control and Navigation Systems, Elbit Systems, Electro- Optics ELOP
10:00 – 10:30	Navigation aiding using multiple-view geometry. Prof. Pini Gurfil, Faculty of Aerospace Engineering, Technion.	15:30 – 16:15	<b>Coffee break and last time to visit the exposition</b>
10:30 – 11:15	<b>Coffee break and time to visit the exposition.</b>	16:15 – 16:30	Presentation of the winner of the M. Velger Award 2011
11:15 – 11:45	Navigation in the presence of multipath, shadowing and jamming via direct position determination and outliers rejection. Professor Anthony J. Weiss, School of Electrical Engineering, Tel Aviv University	16:30 – 17:00	Performance analysis of NovAtel SPAN® GNSS/INS with the Honeywell HG1900 and HG1930 MEMS IMUs. Walter Dreifuss, President, WalDyTech Ltd
11:45 – 12:15	Improving accuracy of GNSS devices in urban canyons. Dr. Boaz Ben Moshe, Dept. of Computer Science and Mathematics, Ariel University Center of Samaria.	17:00 – 17:30	Host-based SNAP technology – A Highly flexible GNSS receiver Architecture. Dvir Rosenfeld, VP R&D, Cell-Guide Ltd
12:15 – 12:45	High Performance Fiber Optic Gyros: theory and applications, Yves Paturel, Technical Director Of the Land and Air Division, iXSea.iXBlue Company	17:30 – 18:00	New IMU Calibration Procedure, Dr. Zeev Berman, Berman Consulting
12:45 – 14:00	<b>Lunch and time to visit the exposition.</b>		

## טופס הרשמה

לכבוד  
האיגוד הישראלי לבקרה אוטומטית  
הפקולטה להנדסת חשמל  
קרית הטכניון, חיפה  
טל: 04-8294780; פקס: 04-8295757; 04-8205745

א.ג.נ.,

הנני מבקש/ת לרשום אותי ליום עיון בנושא:

### 2012 Workshop and Exhibition in Navigation Systems and Applications

אשר יערך במלון "דניאל" הרצליה, ביום ב' 9.1.2012

כתובת: \_\_\_\_\_

טלפון: \_\_\_\_\_

מקום עבודה: \_\_\_\_\_

טלפון: \_\_\_\_\_ פקס: \_\_\_\_\_

מצרפת המחאה ע"ס \_\_\_\_\_ ש"ח

תאריך חתימה \_\_\_\_\_

דמי השתתפות:

סטודנט (בזמן מלא) 200 ₪  
רישום מוקדם עד 2.1.2012 400 ₪  
רישום החל מ- 3.1.2012 450 ₪

קו 29, מתחנת הרכבת בהרצליה למלון, יוצא כל 10 דקות.  
דמי ההשתתפות כוללים ארוחת צהרים, כיבוד וחומר מודפס.  
ההרשמה גם במקום, אם יוותרו מקומות.



איגוד ישראלי לבקרה אוטומטית

איגוד ישראל לבקרה אוטומטית – איב"א  
Israel Association for Automatic Control

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הזמנה

ליום עיון בנושא:

### 2012 Workshop and Exhibition in Navigation Systems and Applications

במלון "דניאל", הרצליה

יום ב', 9 בינואר 2012

יום העיון נערך בחסות משותפת של IEEE ישראל (CS & AES Chapters)

תודתנו נתונה למפעלים ולמוסדות  
הבאים אשר תמיכתם באיב"א  
מאפשרת לקיים ימי עיון מסוג זה:

אלביט מערכות – אל אופ בע"מ  
רפאל – מערכות לחימה מתקדמות בע"מ  
התעשייה האווירית לישראל בע"מ