

אגוד ישראל לבקרה אוטומטית - איב"א

ISRAEL ASSOCIATION for AUTOMATIC CONTROL

iaac.technion.ac.il

National Member Organization of:



הזמנה ליום עיון בנושא :

Navigation Systems and Applications

שייערך במלון "דניאל", הרצליה

יום ב', 29 לינואר, 2018

The Israel Navigation Systems and Applications Workshop and Exhibition is a biennial event organized and sponsored by the Israel Association for Automatic Control (IAAC) to serve the wide audience of people in Israel interested in the navigation science and art. The one-day workshop is dedicated to technical talks that range from fundamental research, to applications, to field test results. The exhibition is a unique opportunity to bring together in one location the different industries and representatives offering navigation related hardware.

The Itzhack Bar Itzhack invited speaker will be Valerie Reanudine, head of the Geopositioning Lab in the French Research Institute on Transport and one of the leading experts in Indoor Navigation Systems. We will also hear talks on visual based navigation, GPS/GNSS receivers, Celestial Navigation and on new advances in sensor fabrication. Overall, the workshop offers a balanced and heterogeneous program with a mix of academic and industry speakers.

Besides the technical objectives, the Workshop and Exhibition will provide a great opportunity for networking among all the participants that range from students pursuing an academic degree, researchers and users in Academy and Industry, and policy makers in this highly dynamic field.

We are looking forward to a very successful event.

Workshop organizers: Dr. Héctor Rotstein, Rafael and Dr. Vadim Indelman, Technion.

List of exhibitors:

Arazim, Hypertech, GPSDome/Focus Telecom, Spectracom, Accord, Trimble/Applanix, Systron Donner Inertial, Northrop Grumman Litef GmbH, Al Cielo Inertial Solutions, Honeywell, Accubeat, Novatel, IAI Tamam, VectorNav, Physical Logic, Syntony, iXblue, Innalabs, Newbyte.

Navigation Systems and Applications

January 29, 2018

Advanced Program

8:30	Registration and visit to the Exhibition	
9:00	Opening	
9:15	Session 1	
9:15	Itzhack Bar Itzhack Invited Talk: Human Dimensions of Navigation	
10:15	Satellite relative navigation via dual quaternion filtering	<i>Daniel Choukrun, BGU</i>
10:35	Smartphone Mode Recognition for Improved Pedestrian Dead Reckoning	<i>Itzik Klein, Rafael</i>
10:55	<i>Coffee break and visit to the Exhibition</i>	
11:40	Session 2	
11:40	Indoor Navigation using a Monocular Camera and a Floor Plan	<i>Amir Geva, Technion and Hector Rotstein, Rafael</i>
12:00	Bundle Adjustment with Feature Scale Constraints for Enhanced Estimation Accuracy	<i>Vladimir Ovechkin and Vadim Indelman, Technion</i>
12:20	From Insects to Vikings to Modern Times: Exploiting Light Polarization for North Finding	<i>Shlomi Voro, Lirhot</i>
12:40	IMU-12 – More performance in small size	<i>Arnon Arbel, Al Cielo Inertial Solutions</i>
13:00	<i>Lunch break and visit to the Exhibition</i>	
15:00	Session 3	
15:00	Novatel GNSS Interference Toolkit	<i>Richard Gutteling, Novatel</i>
15:20	Celestial GPS	<i>Giora Kutz</i>
15:40	Initial Test Results of Indian Regional Navigation Satellite System NAVIC Receivers	<i>Jayanata Kumar Ray and Kiran S, Accord Software & Systems Private Ltd., Bangalore, India</i>
16:00	<i>Coffee break and visit to the Exhibition</i>	
16:40	Session 4	
16:40	Novel Baro-Inertial Filter	<i>Dotan Weinstein, Rafael</i>
17:00	GNSS Jamming and Spoofing	<i>Moshe Kaplan, GPSDome</i>
17:20	High Accuracy NFSR with Short-Time Alignment Under Angular Rotation	<i>Jacob Bavli, Itzhak Ovadia, Moti Bar and David Omer, IAI TAMAM</i>
17:40	End	

יום עיון בנושא :

Navigation Systems and Applications

שייערך במלון "דניאל", הרצליה

יום ב', 29 לינואר, 2018

טופס הרשמה :

שם: _____

כתובת: _____

דוא"ל: _____

מקום עבודה: _____

טלפון: _____ פקס: _____

דמי השתתפות (כוללים ארוחת צהרים, כיבוד וזכות להורדת חומר ההרצאות):

רישום מוקדם עד 22.1.2018 ₪ 480

רישום החל מ 23.1.2018 ₪ 530

סטודנט (בזמן מלא) ₪ 230

מצורפת המחאה ע"ס _____ ₪ לפקודת איב"א

לחיוב תקציב מוסדי שמספרו _____

רישום במקום: באמצעות המחאה לפקודת איב"א (איגוד הישראלי לבקרה אוטומטית), או מזומן בלבד

תאריך _____ חתימה _____

את הטופס יש לשלוח לכתובת:

מירה ארן, מזכירת איב"א

הפקולטה להנדסת חשמל

ק. הטכניון, חיפה, 32000

או לפקס: 04-8295745 (לידי מירה)

או למייל: mira@ee.technion.ac.il

לידיעתך, קו 29, מתחנת הרכבת בהרצליה למלון דניאל, יוצא כל 10 דקות (זמן נסיעה כ- 15 דקות)

תודתנו נתונה למפעלים ולמוסדות

הבאים אשר תמיכתם באיב"א

מאפשרת לקיים ימי עיון מסוג זה:

אלביט מערכות – יבשה ותקשוב בע"מ

קריה למחקר גרעיני – נגב

רפאל – מערכות לחימה מתקדמות בע"מ

Workshop and Exhibition:

Navigation Systems and Applications

That will take place on the "Daniel" Hotel, Hertzliya

On January 29, 2018

Registration Form:

Name: _____
Address: _____
E-mail: _____
Working Place: _____
Phone: _____ Fax: _____

Registration Rate:

Early registration up to 22.01.2018: 480 Israeli Shekel
After 22.01.2018: 530 Israeli Shekel
Full-time Student: 230 Israeli Shekel

Method of Payment:

- Check enclosed. Please mail registration form with payment to: Mira Aran, IAAC
Secretary, Department of Electrical Engineering, Technion City, Haifa 32000, Israel.
Make checks payable to: IAAC – Israel Association of Automatic Control.
- Charge to the institutional account number: _____
- On-site registration. Only payments in cash or check will be accepted.

Date: _____

Signature: _____

Registration Forms may also be sent by e-mail to mira@ee.technion.ac.il or by fax to +972 4 829 5745 (For Mira).

For your convenience, Line 29 from Hertzliya Train Station to the Daniel Hotel runs once every 10 minutes. Travel time is approximately 15 minutes.

The following companies provide support to the
IAAC activities including this Workshop:

ELBIT Systems – Aerospace and Defense Company
NEGEV Nuclear Research Center
RAFAEL Advanced Defense Systems