

## **The Israel Navigation Workshop and Exhibition INWE18**

The Israel Navigation Workshop and Exhibition (INWE18) is a biennial event organized and sponsored by the Israel Association for Automatic Control (IAAC).

For those not familiar with the association, the IAAC is a non-profit organization congregating a large number of members from Academia and Industry interested in the broad areas of Control and Systems' Theory.

Readers are invited to check the webpage for further details and the opportunity to subscribe to the IAAC mailing list here:

<http://iaac.technion.ac.il/home.html>

Following the huge success of previous events, the 2018 edition of the Israel Navigation Workshop and Exhibition has been scheduled for 29 January at the Daniel Hotel in Herzliya.

### **INWE18**

INWE18 will be a one day event dedicated to technical talks in navigation systems, ranging from fundamental research, to applications, to field test results.

Topics of interest include navigation, positioning and timekeeping in all their variations, sensors, systems, optimal integration of multiple sensors, and novel or emerging technologies in the field of navigation.

In parallel with the talks IAAC will host a technical exhibit in which navigation equipment manufacturers and system suppliers will have the opportunity to show their current products and most recent technical innovations.

Delegates can expect to see the latest, most innovative navigation products and services from major navigation companies.

Finally, the event will bring together the large community of researchers, suppliers and users in the navigation area in Israel, making it a unique opportunity to meet all the players in the navigation field in Israel.

The plenary lecture of INWE18 will be delivered by Dr Valerie Renaudin, Research Director and Laboratory Head, IFSTTAR\*. Dr Renaudin is one of the leading researchers in the exciting field of indoor navigation and related emerging fields.

INWE18 is expected to have three tracks:

1. A Navigation Workshop, in which recent advances in navigation will be presented. Organized by Professor Vadim Indelman, Department. of Aerospace Engineering, The Technion ([vadim.indelman@technion.ac.il](mailto:vadim.indelman@technion.ac.il)).
2. A Navigation Sensors and Systems Exhibition, in which companies in the navigation market will have the opportunity to show their products. The exhibition is organized by Dr Hector Rotstein, Research Fellow, Rafael Advanced Defense Systems Ltd. ([hector@rafael.co.il](mailto:hector@rafael.co.il)). The cost of a stand at the exhibition has been set to 1,900 shekel. It is understood that the available space is limited, and potential presenters are invited to contact the organizer as soon as possible to make their requirements known.
3. Poster Session, dedicated to students and researchers who want to present preliminary results and to small start-up companies who want to describe their ideas.

## **Deadlines**

### **30 November**

Deadline for contracting an exhibition booth.

### **11 January**

Deadline for sending author's final presentation.

## **Topics of Interest**

Topics of interest for the Workshop include, but are not limited to:

- New concepts, advances and algorithms
- Emerging navigation, control, and timing sensor technologies and their applications
- Developments in ground based and satellite based augmentation systems
- Use of existing and/or new, innovative inertial sensor technology and designs for demanding environments and applications
- Sensors and algorithms for enabling navigation in indoor environments

- Effects of interference on the GNSS RF bands
- Navigation challenges posed by emerging micro air or ground vehicles
- Techniques involving new ways of integrating traditional aiding sensors or new aiding sources into multisensory integrated navigation systems
- Discussion of manufacturing, test and evaluation of all types of sensors
- Projects, concepts, systems, and advanced algorithms related to emerging vision based navigation applications

\* The French institute of science and technology for transport, spatial planning, development and networks is a public research institution created in 2011. See also: <http://www.ifsttar.fr/en/welcome/>