Autonomous Systems: A real revolution?

May 25, 2017

08:30	Registration
09:30	**Opening** – chairman: David Harrari Hugo Guterman- IEEE, Ben-Gurion University Conference Chairman Emanuel Liban, Chairman–Israeli Society of Mechanical Engineers and Aerospace Arie Perry- President AUVSI Israeli chapter at AEAI
09:45	Keynote Speaker: Autonomous systems in a future battlefield **Brigadier General Nir Halamish, Head of Directorate of R&D, Ministry of Defense**
10:15	Coffee Break -Exhibition
10:30	Keeping the human in the loop: Tools and techniques to facilitate Operator's coordination, communication and mission performance with unmanned systems. **Tal Oron-Gilad, Ben-Gurion University**
10:50	Towards Plug and Play Planning Using Performance Level Profiles. **Maor Ashkenazi and Ronen I. Brafman, Ben-Gurion University**
11:10	Cormorant Fancraft™ UAS: Internal Rotor Technology Development. **Rafi Yoeli and Yitzchak D. Traeger, Urban Aeronautics Ltd**
11:30	Decision support system based on ground-life visualizations for unmanned aerial systems operators. **Hagai Tapiro and Tal Oron-Gilad, Ben-Gurion University**
11:50	Unmanned Aircraft Systems Autonomy and Integration into the National Airspace **Prof. Kimon Valavanis**
12:10	Multi-objective Topology and Weight Evolution of Neuro-controllers for Robot Navigation and Control **Omer Abramovich and Amiram Moshaiov, Faculty of Engineering, Tel-Aviv University**
12:30	Lunch and Exhibition
	Afternoon Session– chairman: TBD
13:20	award ceremony
13:30	Accepting innovation - how should UAS OEMs deal with the rapidly evolving Startup industry? **Nir Tel Oren, UAS R&D Projects, Israel Aerospace Industries (IAI)**
13:50	Safety Performance Evaluation Methodology for Autonomous UGV. First Results of Implementation on a Full Scale Robotic System – ROBIL. **Daniel Meltz[1,2] and Hugo Guterman[1], [1]Israel Aerospace Industries (IAI), [2]Ben Gurion University (BGU)**
14:10	Energy Considerations in Multi-Rotor Aerial Vehicles Charging from Overhead Power Lines. **Alon Kuperman[1,2] and Boaz Ben Moshe[2], [1]Dept. of Electrical and Computer Eng., Ben-Gurion University of the Negev, Israel, [2]Dept. of Computer Sci., Ariel University of Samaria, Israel**
14:30	Global network to monitor, supervise and organize the movement of autonomous vehicles. **Efren Alonso. AUVSI Spain Chapter Vice President**
14:50	Coffee Break -Exhibition
15:10	Personal Rapid Transit (PRT). **Amira Sharon Technology, Innovation and R&D Directirate, LAHAV Israel Aerospace Industries (IAI)**
15:30	Consumer robotics-opportunities and challenges. **Zvi Shiller, Ariel University (IROB)**
15:50	Can Gyro-Free INS Be useful in Autonomous Platforms? **Uriel Nusbaum, Autonomous Systems Program Technion and Itzik Klein, Research Fellow, Rafael**
16:10	Autonomous Systems: A real Revolution ? – **Prof. Daniel Weihs – Technion Autonomous Systems Program (TASP)**
16:30	Farewell and lottery of Tablet presents of Menora Mivtachim (statutorily)

Location and Directions

The symposium will take place at Ben-Gurion University of the Negev (Conference Hall 001, Building 98), Marcus Family Campus, Beer-Sheva, Israel.
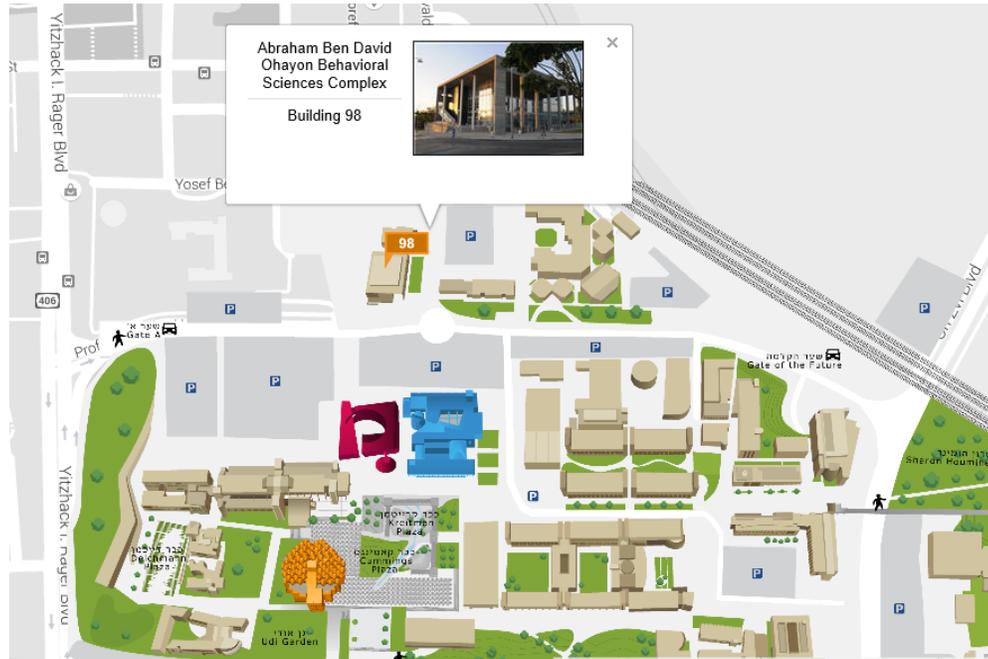
You can reach Ben-Gurion University of the Negev by car or public transportation. For more information please click here

· **Car -** take highway 4 south from Tel-Aviv, switch to highway 41 East in Ashdod and then follow highway 40 South to Beer-Sheva. Parking lots can be found around the campus. The parking lot of the train station is free.

· **Israel Railways-** schedule and fares (in English and Hebrew) information at 03-5774000 or 04-8564444. Get off at Beer Sheva north station. Take the Mexico Bridge to the campus.

· **Egged Bus Service-** schedule and fares (in English and Hebrew) information at 03-6948888. Get off at Reger Road and Ben-Gurion Boulevard intersection. (bottom left corner of map above.)

· **Metropoline Bus Service -**schedule and fares (in Hebrew only) information at *5900 e-mail: info@metropoline.com. Get off at Reger Road and Ben-Gurion Boulevard intersection. (bottom left corner of map).

AEAI-AUVSI-IEEE Joint Conference
Autonomous Systems: A real revolution?
May 25, 2017- Ben-Gurion University

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Full Rate	**210 NIS**	☐
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- All prices includes VAT
- Registration fee includes refreshments and light lunch
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Cancelations should be sent by mail or fax no later than April 30st 2017.
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