AUVSI-IEEE Joint Conference
October 6, 2010, Ben-Gurion University

Time			
9:00	Registration		
10:00	**Opening – Auditorium (zonenfeld hall)**		
	Y. Raz , AEAI, Chairman, Prof. **R Carmi**, President, BG University **E. Liban**, Mechanical Engineering Society chairman, AEAI		
	Dr. **A. Perry**, President AUVSI Israel Chapter Prof. **H. Guterman**, Conference Chairman Prof. **D. Weihs** , AUVSI 2012 conference Chairman		
10:15	**Keynote:**		
	ROBOTIC VEHICLES:		
	MALIGNANT MACHINES OR THE PATH TO PEACE?		
	Dr. Robert Finkelstein		
	President, Robotic Technology Inc.		
11:00	Coffee Break -Exhibition		

	Room A	**Room B**	**Room C**
	Systems Session **Chairman: Arie Perry -IAI**	**Simulation, Training and Education Session** **Chairman: Eli Kolberg -BIU**	**Unmanned Marine Vehicles Session** **Chairman: CPT. Sasi Hodeda - IN**
11:15	Hybrid Powertrains for Autonomous Vehicles with Electric Propulsion. I. Aharon & A. Kuperman. Ariel University Center	Introduction to Unmanned Vehicles Simulation & Training. A. Segelman. Simlat	Israeli Navy Roadmap of Unmanned Marine Vehicles. CDR. O. Avilea. IN
11:30	An Algorithm for Gait Planning of an Under constrained Cable Suspended Mobile Robot. A. Capua, A. Shapiro, Shraga Shoval. BGU, Ariel	Robotics Research and Education Combine in RoboCup Soccer: Israel's Participation in 2009 and 2010. Kaminka et. al. BIU	USV's and UUV's R&D Challenges. Lt. O. Gal. IN
11:45	Pincher Robot Mounted, Remote Operated Micro Weapon System for Non-Violent IED Defeat. N. Orlev, Rafael	Contest oriented design. E. Kolberg, S. Zaltsman. BIU	Protector- Challenges and future development Ruslan Zhurabel, Rafael
12:00	Robotic Fire Fighting & Rescue System. J. Perry. Elad Eng. Ltd.	Local Geodesic Determined Motion for Unmanned Autonomous Ground Vehicles. M. Haspel & C. Haspel. Stochastikos Solutions and HU	Development Capabilities and Integration of USV's in Marine Battle. I. Ben Zur. Elbit
12:15	The TaxiBot concept. A. Perry. IAI	Dance robot as a tool for implementation of micro-programming. E. Kolberg. BIU	Automatic Obstacle Detection for USV's Navigation using Vision Sensors. Y. Vazana, I. Schwartz, BIU, O. Gal, IN
12:30	On the Development of an Autonomous Pneumatically Driven Quadruped Robot. E. Zisser, A. Shapiro, R. Riemer, H. Guterman. BGU	UAVs for the masses Z. Avni. Themis	An automatic stabilization system for quadrotors with applications to vertical take-off and landing I. Zohar, A. Ailon & H. Guterman. BGU
12:45	**Lunch and Exhibition**		

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Afternoon Sessions

	Room A	Room B	Room C
	UAV's Session **Chairman: Amir Shapiro - BGU**	**Multi-Robot** **Chairman: Gal Kaminka -BIU**	**Autonomy, models and sensing** **Chairman: Doron Havatzelet - MAFAT**
14:00	The Airmule Autonomous unmanned Aerial vehicle M. Turgeman & E. Erenthal. Urban Aeronautics Ltd.	Indoor Cooperative Autonomous Systems Test-Bed. O. Schnitzer & T. Shima. Technion	Optimal Policies for Special Cases of the Canadian Traveler Problem. D. Fried & S. Shimony. BGU
14:15	The challenges of successful UAV integration Z. Avni. Themis	Rapid Semi-Autonomous Multi-Robot Exploration. Kaminka et. al. BIU	Cyclic Routing of Unmanned Air Vehicles N. Drucker, M. Penn and O. Strichman Technion
14:30	On the Development of Autonomous Glider. H. Efraim & A. Shapiro. BGU	A model for cooperation measure of hetrogeneous robots team. S. Shoval. Ariel University Center	System Engineering Challenges in Multi Agent Cooperative Systems. A. Yavnai. Rafael
14:45	Hovering Air Vehicles – From Vision to Reality, Eyal Regev, IAI.	Novel Method for Robust Planning and Re-Planning. A. Moshiaov. TAU	Robotic Agents for indoor SLAM and Search. E. Kolberg. BIU
15:00	UAS in Real Time Missions - The challenges of Integration. A. Unger & E. Kappes. Op-Team-UM & IABG – Industrieanlagen Betriedsgesellschaft mbH	H-MRSTAM: Heterogeneous multi robot time competitive motion planning algorithm, performance analysis and simulations. S. Sarid, A. Shapiro and Y. Edan. BGU	Rational Value of Information Estimation for Measurement Selection. D. Toplin & S. Shimony. BGU
15:15	The Process of UAV Autonomy Level Selection. A. Yavnai. Rafael	Task Allocation and Re-Allocation in Robot Teams: Dealing with Robot Death and Re-Join. D. Erusalimchik , A. Yakir and Y. Elmaliach. CogniTeam, Ltd	An AI Approach for Anomaly Detection in Unmanned Vehicles. E. Khalastchi, R. Lin and G. Kaminka. BIU
15:30	**Plenary Session (zonenfeld hall)**		
	Introduction: David Harari **Keynote: Ovadia Harari** **Future trends in UAV's and the anticipated regulatory requirements for their safe operation in civil airspace**		
16:15	**Farewell**		

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