An IBM Research **Cognitive Computing** Colloquium on **Computer Vision and Video Technologies**

Sunday, November 6, 2016
IBM Research – Haifa | Haifa University Campus

Join us as we bring together thought leaders from around the world to take a closer look at the new era of cognitive computing.

You are cordially invited to join us at IBM Research - Haifa for a colloquium dedicated to cognitive computing. This year's event will focus on computer vision and video technologies. Participation is free, but registration is required. Please register at: https://www.research.ibm.com/haifa/Workshops/cognitive2016/index.shtml

Seminar Organizers: IBM Research – Haifa: Dror Porat, Tal Drory; Tel Aviv University: Prof. Lior Wolf

09:00 – 09:30	Registration
09:30 – 09:45	**Opening Remarks** Oded Cohn, VP, Director of IBM Research – Haifa
09:45 – 10:30	**Keynote: Challenges for Deep Learning in the Medical Imaging Domain** Prof. Max Welling, University of Amsterdam, UC Irvine & CIFAR
10:30 – 11:00	**Information Flow and Design Principles in Deep Learning** Prof. Naftali Tishby, The Hebrew University of Jerusalem
11:00 – 11:30	Break
11:30 – 12:00	**Amplitude Modulated Video Camera – Light Separation in Dynamic Scenes** Prof. Hugo Guterman, Ben-Gurion University
12:00 – 12:30	**Nonparametric Canonical Correlation Analysis** Prof. Tomer Michaeli, Technion
12:30 – 13:00	**Using Spatial Order to Boost the Elimination of Incorrect Feature Matches** Prof. Ilan Shimshoni, University of Haifa
13:00 – 14:00	Lunch
	Industrial Applications Session
14:00 – 14:30	**Video and Cognitive – A Match Made in Cloud** Balazs Szakacs, Head of Business Intelligence, IBM Cloud Video
14:30 – 15:00	**Autonomous Navigation and Perception for Aerial Vehicles** Prof. Vadim Indelman, Technion
15:00 – 15:30	**Deep Reinforcement Learning for Driving Policy** Prof. Shai Shalev-Shwartz, The Hebrew University of Jerusalem & Mobileye
15:30 – 15:45	Break
	Student Spotlight Session
15:45 – 16:10	**On the Quality of the Initial Basin in Overspecified Neural Networks** Itay Safran, Weizmann Institute of Science
16:10 – 16:35	**Detecting Repeating Objects Using Patch Correlation Analysis** Inbar Huberman, The Hebrew University of Jerusalem
16:35 – 17:00	**Video Scene Detection Using Optimal Sequential Grouping** Daniel Rotman, IBM Research – Haifa
17:00 – 17:15	**Closing Remarks** Dr. Aya Soffer, Director, Big Data and Cognitive Analytics, IBM Research – Haifa
17:15 – 18:00	Reception and Demos