## Danish-Israeli Scientific Workshop: The Future of Al Health September 10-11, 2019, at the Steinhardt Museum of Natural History, Tel Aviv University

## Scientific organizers: Prof. Mads Nielsen, Prof. Saharon Rosset (co-chairs), Prof. Meir Feder, Prof. Ron Shamir , the Scientific Attaché Dr Ann-Christina Lange and the office of TAU VP for R&D

A collaboration between The Danish Innovation Centre in Tel Aviv, Copenhagen HealthTech Cluster, Copenhagen University and Tel Aviv University.

The workshop explores the future of AI health within three selected topics including Electronic Medical Records (EMRs), imaging and genomics.

## Preliminary Program (subject to change)

	Tuesday Sept. 10	Wednesday Sept. 11
	Tel Aviv University	Tel Aviv University
Morning	8:30-8:45 Welcome and Introduction Speakers: Raanan Rein, Vice President of TAU	9:00-10:00 Presentations: Research and medical use of patient data Exploiting EMR data in Al application development
	<ul> <li>8:45-10:15 Presentations: Deep Dive Research : Exploring Al research within imaging</li> <li>Mads Nielsen , Copenhagen University: Unets for pathology detection in brain MRI</li> <li>Lior Wolf, TAU: Microvascular dynamics from 4D microscopy using deep active contours</li> <li>Bulat Ibragimov, Copenhagen University: Al for radiation oncology</li> <li>10:15-10:45 Coffee Break</li> <li>10:45 -11.45 Continued Presentations: Deep Dive Research : Exploring Al research within imaging</li> <li>Martin Lillholm, Copenhagen University: Breast Cancer Risk by deep learning</li> <li>Hayit Greenspan, TAU: Al in medical imaging</li> </ul>	<ul> <li>Yoav Benjamini, TAU: Selective model searching in big data health research</li> <li>Eran Segal, Weizmann Institute: Harnessing big data for personalised medicine</li> <li>10:00-10:30 Coffee Break</li> <li>10.30-11.30 Continued Presentations: Research and medical use of patient data Exploiting EMR data in Al application development</li> <li>Andrew Schork, Copenhagen Regional Hospital: TBC</li> <li>Malka Gorfine, TAU: Novel illness-death model with application to the UK biobank survival data</li> <li>11:30-11:45: Q&amp;A</li> </ul>
	11:45-13:00 Lunch break	11:45-13:00 Lunch break
Afternoon	<ul> <li>13:00-14:00 IBM as a player in Al Health Introduction to IBM's research and development of applications within imaging</li> <li>Speakers:</li> <li>Dr. Efrat Hexter, IBM Research Israel</li> <li>TBC</li> </ul>	<ul> <li>13:00- 14:30 Presentations: Basic research on Machine Learning, Exploring joint research projects and research funding opportunities</li> <li>Christian Igel, Copenhagen University: Random Forests and PAC- Bayesian bounds</li> <li>Roi Livni, TAU: Passing Tests Without Memorizing: Theoretical Models for Generative Learning</li> <li>Amir Globerson, TAU: Deep Architectures for semantics</li> </ul>
	14:00-14:30 Coffee Break	14:30-15:00 Coffee Break 15:00- 16:30 Continued Presentations: Basic research on Machine Learning, Exploring joint research projects and research funding opportunities
		<ul> <li>Raja Giryes, TAU: Jacobian based regularization for neural networks</li> <li>Koen van Lemput, Danish Technical University: Towards medical image analysis in the clinic using generative models</li> <li>Shie Mannor, Technion: Local Analysis for the Combinatorial Multi-Armed Bandit Problem</li> </ul>
	<ul> <li>14:30-16:00 Presentations: Data-driven approaches to genomics</li> <li>Simon Rasmussen, Copenhagen University:</li> </ul>	16:30-17:00 Coffee Break 17:00-18:00 Joint session on funding opportunities and future
	<ul> <li>Exploring medical research in genomics</li> <li>Elhanan Borenstein, TAU: Model-Based Analysis of Microhiamo Ria Data</li> </ul>	collaborations



## To register: https://forms.gle/eALaAAczM4BRWVJX8

