Welcome

ברכעים רבים

לפקולטה להנדסת חשמל

łuż"ש אנדרה וארנה הספרי
15/11/20 Have a good week

 приятной недели

 שבוע טוב

 أسبوع سعيد
Let $X_1, X_2, \ldots$ be an infinite sequence of i.i.d. Bernoulli random variables, with expectation $p$ under hypothesis $H_0$, and $q$ under hypothesis $H_1$. Consider a deterministic finite-state machine with $S$ states that observes $X_k$ at time $k$, and then updates its state according to a deterministic time-invariant rule. Assume that we let the machine run for a very long time,.....
James Clerk Maxwell (13 June 1831 – 5 November 1879)
Scottish physicist and mathematician

His most prominent achievement was formulating classical electromagnetic theory. This unites all previously unrelated observations, experiments, and equations of electricity, magnetism, and optics into a consistent theory. Maxwell's equations demonstrate that electricity, magnetism, and light are all manifestations of the same phenomenon, namely the electromagnetic field.
We revisit the fundamental problem of prediction with expert advice, in a setting where the environment is benign and generates losses stochastically, but the feedback observed by the learner is subject to a moderate adversarial corruption. We prove that a variant of the classical Multiplicative Weights algorithm with decreasing step sizes achieves constant regret in this setting and performs optimally ...
 karşı צוותים ייחודיים לשנת תש"פ
רפסל דזה, יואל צויר, טסיונה בר, דוד בר אוסר, ליאור גולדברג - מטסיים פקוליים
קובי כהן - מטסי טכני

28.10.2020
Mainstream computing has gone through multiple epochs, and the latest is now upon us. The importance of energy and space efficiency, power density, and the integration of application-driven acceleration has made mobile computing a new driver of compute architecture—and the next generation of mainstream computing.

please register
https://applecorp.avature.net/europseisraeltechtalkfall20
Congratulations for completing the PhD!

Dr. Or Yair
Advisor:
Prof. Ronen Talmon

PhD Thesis Title:
Geometric Analysis of Signals and Systems
Rudolf Otto Sigismund Lipschitz (14 May 1832 – 7 October 1903) was a German mathematician. While Lipschitz gave his name to the Lipschitz continuity condition, he worked in a broad range of areas. These included number theory, algebras with involution, mathematical analysis, differential geometry and classical mechanics.
In this talk, I will survey two recent works, both have results related to the expressivity of neural networks, but in different architectures:

On size generalization in graph neural networks. Proving the lottery ticket hypothesis

Based on joint work with: Ohad Shamir, Haggai Maron, Eran Malach, Gal Chechik,
Shai Shalev-Shwartz, Eli Meirom and Ethan Fetaya.

Zoom link: https://technion.zoom.us/j/98117335578
Congratulations for completing the PhD!

Dr. Baruch Epstein

Advisor:
Prof. Ron Meir

PhD Thesis Title:
Learning and Prior Knowledge About Structure:
Theory and Applications
"From Transistors to Swarm Systems: The Evolution of Design Methods and Tools in the last 40 Years"

**Zoom link: to be provided after registration**

**Abstract**

EDA started in the late 1960s when large companies were developing new products based on IC technology. Since then, EDA technology advances have oscillated between verification and synthesis, the perception in the mind of the electronic design community of EDA has been rising and falling in a regular pattern. EDA companies have risen and declined, the consideration of the financial community for EDA has been periodically increasing and decreasing, and the algorithms used in EDA have swung from general purpose techniques borrowed from mathematics, computer science, operation research, and artificial intelligence, to ad hoc techniques that leverage the nature of the specific design problem to be solved. I will show that progress is achieved when new methodologies crystallizes, with new tools and techniques acting as catalysts, that the construction of layers of abstraction are the steps that have helped us reach new heights.

My take in this talk is that the great success of EDA to enable the design of chips with more than 1 Billion transistors over a span of 40 years can be replicated in other sectors including traditional industries such as construction, and novel sectors such as synthetic biology. If its essential elements are distilled appropriately, I will show how we are approaching these extensions and what challenges we are facing.

**ACRC WEBINAR**

**From Transistors to Swarm Systems: The Evolution of Design Methods and Tools in the last 40 Years**

**Tuesday, November 24, 2020**

11:00-12:30, online ZOOM session

**Registration is free. Please register here:**
https://acrc.net.technion.ac.il/registration-to-acrc-webinar-by-prof-sangiovanni-vincentelli/

**Zoom link: to be provided after registration**

Prof. Alberto Sangiovanni-Vincentelli
University of California, Berkeley

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**Tuesday, November 24, 2020 at 11:00 (I D T).**

https://acrc.net.technion.ac.il/registration-to-acrc-webinar-by-prof-sangiovanni-vincentelli/

ACRC – Advanced Circuit Research Research Center
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