

המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ביום שלישי, 21 בדצמבר, 2021

בשעה 14:30 – 15:30

ב-101 Math

ההרצאה

from Manifolds of Estimation Non-Parametric Data Noisy

חינתן על-ידי

Univercity) (Yale Aizenbud Yariv

תקציר: In many data-driven applications, data follows some geometric structure. In the observed cases, many of these structures are non-linear and non-convex, making the recovery of the underlying structure a challenging task. A common assumption is that the data is noisy, which makes the recovery task even more challenging. In this talk, we will discuss recent progress in non-parametric estimation on manifolds. We will focus on the case of low-dimensional manifolds, where the data is noisy and the underlying structure is unknown. We will discuss how to estimate the manifold from the data, and how to recover the underlying structure. We will also discuss the convergence rates of the estimation, and how to establish them. Moreover, we will discuss the function estimation on manifolds, and how to recover the function from the data. We will discuss the convergence rates of the estimation, and how to establish them.