



THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Vision and Robotics Seminar

Room 1 ,Ziskind Building
on Thursday, Jan 04, 2018
at 12:15

Guy Gilboa
Technion

Processing images using nonlinear transforms

Abstract:

Recent studies of convex functionals and their related nonlinear eigenvalue problems show surprising analogies to harmonic analysis based on classical transforms (e.g. Fourier). In this talk the total-variation transform will be introduced along with some theoretical results. Applications related to image decomposition, texture processing and face fusion will be shown. Extensions to graphs and a new interpretation of gradient descent will also be discussed.