NYU Stern School of Business
Department of Information, Operations & Management Sciences
STATISTICS RESEARCH SEMINAR

TOPIC: **Gini – an alternative measure of variability**
SPEAKER: **Edna Schechtman, Ben Gurion University of the Negev, Israel**
DATE: **Friday, October 30th, 2009**
TIME: **11:30 AM**
PLACE: **KMC 5-90**

Abstract

The most popular measure of variability is the variance. However, the variance is known to be sensitive to outliers. In this talk we shall focus on an alternative measure of variability – the Gini, dated 1912, which is less sensitive to outliers. We will give several alternative definitions to the Gini measure, extend the Gini to a measures of association between two variables , define Gini correlation, which is related to Gini in a similar way to the relationship between Pearson's correlation and the variance. Next we will introduce the decomposition of Gini of a population to the contributions of the sub-populations (plus some extra terms), called ANOGI (ANalysis Of GIni), which is similar to ANOVA. Two empirical examples of ANOGI will conclude.