



STATISTICS SEMINAR



Preliminary Exam Thesis Proposal:

Robust $n C_k$ Estimators

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DATE: November 14, 2005

TIME: 8:30 - 10:30 am

PLACE: Hemisphere Room (501 in the library)

REFRESHMENTS: 8:10 am - Hemisphere Room

In this study we will consider a class of robust estimators that includes estimators of variance, covariance, correlation, location, and regression parameters. The estimators of variance and correlation are based on a class of U-statistics considered by Serfling. For the two-sample location and regression models, the estimators will be obtained by combining Serfling's ideas with a certain class of norms and pseudo-norms considered by Hettmansperger and McKean.

The purpose of this dissertation is to investigate the efficiency, sensitivity to outliers, distributional properties, and applications of these estimators.

** Upcoming seminars may also be found on the web at <http://www.ksu.edu/stats/current.seminars/nav.currentseminars.html>.