

For favour of posting

DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE
THE UNIVERSITY OF HONG KONG

Seminar

Professor Mayer ALVO

Department of Mathematics and Statistics
University of Ottawa
Ottawa, Ontario
Canada

will give a talk

entitled

NONPARAMETRIC TESTS OF TREND FOR PROPORTIONS

Abstract

The popular Cochran-Armitage test for trend in proportions requires the specification of an arbitrary set of scores. A general method is proposed for constructing nonparametric tests of trend for proportions. Such alternatives arise for example in situations where the data consist of rates of growth. Two sets of rankings are defined: the first describes the time and the other the data itself. A measure of distance between the two sets is defined which is then used to specify the test statistic. In this talk we obtain the asymptotic null distribution for test statistics derived from distance measures due to Spearman, Kendall and Hamming. We report on a limited simulation study which shows that the Spearman test is to be preferred in most situations.

on

Wednesday, October 27, 2010

2:00 p.m. – 3:00 p.m.

at

**Room 524, Meng Wah Complex
(behind the Chong Yuet Ming Amenities Centre)**

Visitors Please Note that the University has limited parking space. If you are driving please call the Department at 2859 2466 for parking arrangement.

All interested are welcome