Kabpan Kulin Equivaliend	
a de la de l	Research (StaR) Colloquium
Seminar	
Dept of Mathematics and Statistics King Fahd University of Petroleum and Minerals	
Presenter	Dr. Hassen A. Muttlak
	Mathematics and Statistics Dept
	КЕОРМ
Title	Confidence interval estimation of the location and scale parameters of the logistic distribution using pivotal method
Topic &	Statistical Estimation
(Level)	(Statistical inference, Sampling, Simulation)
Audience	All KFUPM community are cordially Invited
Date	Sunday, Apr 6, 2008
Time	<mark>1:00 PM – 1:50 PM</mark>
Location	Building 5, Smart Classroom # 203

Abstract

Different confidence intervals (CI) will be constructed for the location and scale parameters of the logistic distribution by assuming that one of them is known. The maximum likelihood estimator (MLE) and several different pivots will be used to construct different CI for the logistic parameters, using simple random sampling (SRS) and ranked set sampling (RSS). They will be compared via their expected lengths and the standard errors of their lengths using computer simulation. The confidence intervals base on the RSS are found to be more efficient i.e. having shorter expected lengths and smaller standard errors from there competitors based on the SRS.

Tea and Coffee will be served