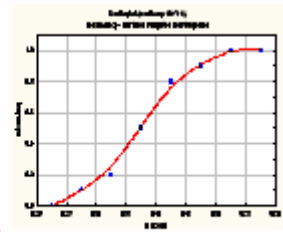


Statistics



Research (StaR) Colloquium

Seminar

Dept of Mathematics and Statistics
King Fahd University of Petroleum and Minerals

| | |
|----------------------------|--|
| Presenter | Dr. Anwar H. Joarder Dept of Mathematics and Statistics KFUPM |
| Title | A Gentle Introduction to Sample Variance |
| Topic & (Level) | Descriptive Statistics (Interpretation, Methodology) |
| Audience | All KFUPM community are cordially Invited (including undergraduate students) |
| Date | Sunday, Nov 2, 2008 |
| Time | 1:00 PM - 1:50 PM |
| Location | Building 5, Smart Classroom # 203 |

Abstract

Sample variance is a measure of scatteredness of sample observations around their center. In this lecture, we present a gentle introduction to sample variance. In particular, we demonstrate that the variance of three observations can be expressed in terms of the range and the first order differences of the observations. This allows us to calculate the variance of three observations without any calculator. The variance formula for 4 observations is also simplified. Recurrence relation can be used to calculate variance of a few more observations. Some other characteristics will be presented.

Tea and Coffee will be served