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Statistical Control Chart and Profile Monitoring

Statistical control chart has been widely used as one of the major quality control tools to monitor process quality in manufacturing as well as non-manufacturing industries. It is essentially a graphical display of the progression of process quality, as characterized by how the plotting statistics behave over time.

In this talk, I will start with some basics of statistical control chart. I will then move on to more recent developments and applications of statistical control chart, especially in the context of statistical profile monitoring. A profile characterizes the functional relationship between a response variable and a set of predictor variables.

The focus of this talk is not so much on specific works as on the broader context of statistical profile monitoring. I will also discuss some potential research problems and applications.

**Friday, October 16, 2009 at
11:30 am in B760 EH**

**Coffee and Cookies will be
served at 11:15 am in the
Statistics Lounge, 450 West Hall**