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Title: Control Charts for Autocorrelated Data

Abstract: Control charts are employed for monitoring and improving industrial processes. Assumptions of normality and independence are two key assumptions made in the development of control charts. However for much industrial data, the assumption of independence is hard to justify. A new control chart for sample mean was developed in Griffiths et al. (2003) for monitoring road pavement data from a construction project (Barton Highway). In this talk, development of this control chart and some further extensions being considered are given.