Boston University Statistics and Probability Seminar Series

Robust parameter design for control systems and measurement systems

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Thursday, October 23, 2008, 4-5pm
Mathematics and Computer Science (MCS) Building, Room 149
111 Cummington Street, Boston

Tea and Cookies at 3:30pm in MCS 153

Abstract: Robust Parameter Design is a strategy of making products and processes least sensitive to the effect of noise (uncontrollable) variables by exploiting interactions between control factors and noise factors. The talk will describe the development of comprehensive frameworks for designing and analyzing such experiments for two different systems. The first part will focus on automatically controlled dynamic processes with correlated disturbances and the development of an experimental approach to optimize such systems. The second part will describe an experimental approach for estimation and reduction of measurement variation (and its components) using a random coefficients model.

For directions and maps, please see *http://math.bu.edu/research/statistics/statseminar.html.*