



Math and Stat Colloquium

Thursday, Sept. 9, 2010

3:30pm LIB 163

Refreshments will be served in the Lund Hall Foyer at 3pm

Speaker:

Siegfried Hörmann

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“Analysis and Prediction of PM₁₀ in Graz, Austria”

Abstract: The concentration of particulate matter (PM) in several regions of Austria has recently obtained considerable attention in local politics and media. Due to climatological reasons, especially the area around Graz (the second largest Austrian city) encounters the countrywide highest concentrations of PM and prescriptive limits are exceeded regularly. We will discuss in this talk the main influencing variables for the high PM pollution in Graz and present a simple but quite efficient forecasting model to predict PM for the subsequent day. Our model has been used to provide an online monitoring tool and is intended to support the decision making in regard to possible traffic regulations. Besides the specific exploration in Graz we will give some general survey on the PM problem.

Joint work with Brigitte Pfeiler and Ernst Stadlober from TU-Graz.