High-Dimensional
Non-Stationary Time Series Analysis

IRTG 1792 Short Course

Jürgen Symanzik

Visual Data Mining in Education, Social Sciences, and Environmental Sciences

Visual data mining enables data analysts in all fields to carry out visual investigations leading to insights into relationships in complex data. In this presentation, we will discuss several case studies that demonstrate how a variety of graphical methods can be used to extract interesting information from the underlying data sets.

In Example (i), we look at the learning progressions in an iPod study of young children. In Example (ii), we look at data and visualizations from the ''Soul of the Community'' (SOTC) social sciences project. In Example (iii), we introduce software and graphics for the forecasting of daily snow water equivalent (SWE) measurements. If time permits, a few other examples will be introduced.

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LvB library, SPA1

Dr. Jürgen Symanzik is a Professor in the Department of Mathematics and Statistics at Utah State University in Logan, Utah. His research interests include all forms of statistical graphics and visualization, e.g., static/dynamic/interactive, on the Web, in a geographical framework, and in combination with virtual reality. In addition, he is interested in visual data mining and the incorporation of new technologies in his teaching.

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