

The Seminars on “Information Technology Outlook” – PhD Programme in Computer Science and Mathematics



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Boole Room – 3rd floor  
Dipartimento di Informatica



<https://shorturl.at/eruY2>

## Visualization of time-Oriented data

Temporal information plays a pivotal role in various domains such as medical records, business, science, biographies, history, planning, and project management. Time, as an intrinsic data dimension, is crucial for uncovering trends, identifying patterns, and understanding relationships within data. Visual methods form a critical component of the techniques used for the presentation, analysis, and exploration of time-oriented information.

In this course, we'll delve into the history of depicting time-related data, examine the properties of time and its association with data, and survey the state of the art in the visualization of time and time-oriented data. Furthermore, we will explore both interaction and computational techniques that enhance visual data analysis. A key focus will be on guiding visualization design, particularly on how to choose visualization methods that suit specific application problems. We will also discuss the ongoing challenges in this field.

*Wolfgang Aigner is a professor at the Institute of Creative\Media/Technologies (IC\M/T) at the St. Pölten University of Applied Sciences, Austria and adjunct professor at TU Wien, Austria. He is the head of the research area “data visualization” and his main research interests include visual analytics and information visualization with a focus on time-oriented data. He has authored and co-authored more than 150 peer-reviewed publications and is an author of the book “Visualization of Time-Oriented Data” (Springer, 2011) that is devoted to a systematic view of this topic. Since 2002, Wolfgang has been involved in the acquisition and execution of a number of funded basic and applied research projects at the national and international levels.*