

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



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<https://shorturl.at/ahIAG>

Multimodal Data Exploration

Visualization proves to be a highly effective strategy for aiding human users in comprehending extensive and intricate datasets by harnessing the remarkable capabilities of their visual perceptual system. Nevertheless, in their everyday experiences, individuals rely on more than just their sense of sight to comprehend and interpret their surroundings. As a result, there is considerable untapped potential in combining multiple perceptual modalities to enhance the depth of data exploration. This presentation aims to provide an overview of ongoing research endeavors that integrate visualization with sonification and data physicalization, highlighting the exciting possibilities at this intersection.

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.