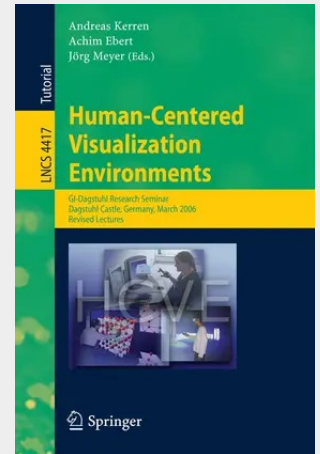


Human-Centered Visualization Environments

GI-Dagstuhl Research Seminar, Dagstuhl Castle, Germany, March 5-8, 2006, Revised Papers

This tutorial book features an augmented selection of the material presented at the GI-Dagstuhl Research Seminar on Human-Centered Visualization Environments, HCVE 2006, held in Dagstuhl Castle, Germany in March 2006. It presents eight tutorial lectures that are the thoroughly cross-reviewed and revised versions of the summaries and findings presented and discussed at the seminar.

Human-Centered Visualization Environments combine traditional Visualization techniques with the ability of the human visual-brain system and the hapt- motoric system to explore and analyze complex data comprehensively. This kind of visualization merges several aspects of different research areas, such as Information Visualization, Scientific Visualization, Human-Computer Interaction, Data Mining, Information Design, Graph Drawing, and Computer Graphics. From all subfields in Visualization, this textbook focuses mainly on Information Visualization, which centers on the visualization of abstract data, e.g., hierarchical, networked, or symbolic information sources, in order to help users understand and analyze such data. For most practical applications, researchers try to find the best visual representation of the given information. That is the core problem of each visualization; but sometimes the seemingly best representation does not suffice if the human information processing and the human capability of information reception are not adequately taken into account. Additionally, these aspects depend on the data to be visualized and on the user's background. While developing Human-Centered Visualization Environments, user abilities and requirements, visualization tasks, tool functions, and visual representations should be equally taken into account. The design of Human-Centered Visualization Environments is one of the big challenges of Information Visualization, Software Visualization, and many application areas, such as the visualization of biological/biochemical or geographical information. This textbook is the outcome of a GI-Dagstuhl Research Seminar organized by the editors, which was supported by the Gesellschaft für Informatik e.V.



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