



# Visualization in Medicine and Life Sciences (Mathematics and Visualization)

*Lars Linsen, Hans Hagen, Bernd Hamann*

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Visualization technology is becoming increasingly important for medical and biomedical data processing and analysis. This technology complements traditional image processing methods as it allows scientists to visually interact with large, high-resolution three-dimensional image data, for example. Further, an ever increasing number of new data acquisition methods are being used in medicine and the life sciences, in particular in genomics and proteomics. This book discusses some of the latest visualization techniques and systems for effective analysis of such diverse, large, complex, and multi-source data. Experts from all over the world had been invited to participate in a workshop held in July 2006 on the island Rügen in Germany. About 40 participants presented state-of-the-art research on the topic. Research and survey papers have been solicited and carefully refereed, resulting in this collection. The topics covered include Segmentation and Feature Detection, Surface Extraction, Volume Visualization, Graph and Network Visualization, Visual Data Exploration, Multivariate and Multidimensional Data Visualization, Large Data Visualization. The book will be of great interest to researchers, graduate students, and professionals dealing with visualization and its application in medicine and life sciences.



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