

Focus on Scientific Visualization (Computer Graphics: Systems and Applications)



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One of the important issues of Scientific Visualization is the utilization of the broad bandwidth of the human sensory system in steering and interpreting complex processes and simulations involving voluminous data sets across diverse scientific disciplines. This book presents the state-of-the-art in visualization techniques both as an overview for the inquiring scientist, and as a solid platform from which developers may extend existing techniques or devise new ones to meet the specific needs of their problems. A secondary goal in crafting this volume has been to provide a vehicle for teaching of state-of-the-art techniques in scientific visualization. The first part of the book covers the application areas fluid flow visualization in medicine, and environmental protection. The second set of chapters explain fundamentals of scientific visualization. It comprises contributions on data structuring and data administration, data modeling, and rendering. A final section is devoted to auditory representation of scientific data.

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