



Visual Computing for Medicine, Second Edition: Theory, Algorithms, and Applications (The Morgan Kaufmann Series in Computer Graphics)

By Bernhard Preim, Charl P Botha

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Visual Computing for Medicine, Second Edition, offers cutting-edge visualization techniques and their applications in medical diagnosis, education, and treatment. The book includes algorithms, applications, and ideas on achieving reliability of results and clinical evaluation of the techniques covered. Preim and Botha illustrate visualization techniques from research, but also cover the information required to solve practical clinical problems. They base the book on several years of combined teaching and research experience. This new edition includes six new chapters on treatment planning, guidance and training; an updated appendix on software support for visual computing for medicine; and a new global structure that better classifies and explains the major lines of work in the field.

- Complete guide to visual computing in medicine, fully revamped and updated with new developments in the field
- Illustrated in full color
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Editorial Review

Review

" I highly recommend it for one-semester advanced graduate courses in computer graphics. For graduate students pursuing PhDs and professionals in research and development in the medical visualization field, this book is well worth reading."--**Computing Reviews, November 17, 2014**

About the Author

Bernhard Preim is Professor of Visualization in the Computer Science Department of the U of Magdeburg. He has given many tutorials on medical visualization at IEEE Visualization, Eurographics, EuroVis and Computer-Assisted Radiology and Surgery. He was founder of the German "Visual Computing in Medicine" group which has held two yearly workshops since 2003. Together with Charl Botha (Delft), he initiated the Eurographics Workshop series on "Visual Computing in Biology and Medicine". Bernhard now heads the VCBM steering committee. Currently, Bernhard and Charl serve as editors for a special issue on "Visual Computing in Biology and Medicine" in the journal "Computers and Graphics". Recently, Bernhard Preim was invited to serve as associate editor of the premium journal IEEE Transactions on Medical Imaging. Bernhard is regularly Visiting Professor at Fraunhofer MEVIS and heads the scientific advisory board of ICCAS (Innovation Center Computer Assisted Surgery). In the German Society for Computer-Assisted Surgery he has been board member since 2007 and first Vice-President since 2009.

Charl Botha is Professor of Visualisation at the Delft University of Technology (TU Delft) in the Netherlands, where he directs the medical visualisation lab. His research focuses on surgical planning and guidance, and visual analysis for medical research. He has published on, amongst other topics, virtual colonoscopy, shoulder replacement, diffusion tensor imaging and the visual analysis of human motion. Together with Bernhard Preim he initiated the Eurographics Workshop series on Visual Computing for Biology and Medicine, acted as co-chair in 2008 and 2010, and is currently serving as editor together with Prof. Preim of the Computers and Graphics special issue on VCBM.

Prior to his Ph.D. he worked in industry designing embedded image processing systems and algorithms for two different companies.

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