



Scientific Imaging with Photoshop: Methods, Measurement, and Output

By Jerry Sedgewick

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Adobe Photoshop is one of the more powerful tools available to scientists today. It is indispensable in the preparation of digital images of specimens for measurement, especially for separating relevant features from background detail. *Scientific Imaging with Photoshop* is the authoritative guide to the use of Photoshop in scientific research, with a special emphasis on the ethical ramifications of the use of image-enhancement software to extract data from digital images. Beginning Photoshop users will benefit from its tutorials in the basics of image processing, and more sophisticated users will appreciate the sections on automating Photoshop operations with actions. In addition, the book lays out procedures in straightforward language for acquiring digital images as well as outputting processed images in digital and hard-copy formats.

Scientific Imaging with Photoshop provides all this and more:

- Little-known methods separating features of interest from the background for subsequent quantification
- How to make dense colors and subtle visual detail reproduce properly in publication
- Correct Photoshop methods and techniques for all user levels
- Procedures that are usable in legacy versions of Photoshop as well as Photoshop Elements and Photoshop Extended

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Editorial Review

Review

I have recently begun working on my PhD and I am extremely new to the area of scientific imaging, which at times I find extremely challenging since most of the information available is often centered on extensive mathematical discussions. I felt compelled to write you because your book provides one of the most clear and informative discussions pertaining to scientific imaging I have ever seen."-- Neil M. Fournier, Department of Psychology, University of Saskatchewan

About the Author

Jerry Sedgewick has been the director for the Biomedical Image Processing Lab at the University of Minnesota for over 10 years. The lab is a light microscopy core facility serving scientists and engineers at the University and in local industry. Jerry works side-by-side with members of the research community on a daily basis. He has co-authored articles in numerous publications, including Science (for which he has created two covers) and Circulation, and he is the author of Quick Photoshop for Research: A Guide to Digital Imaging for Photoshop 5x, 6x and 7x.

Users Review

From reader reviews:

Susan Williams:

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