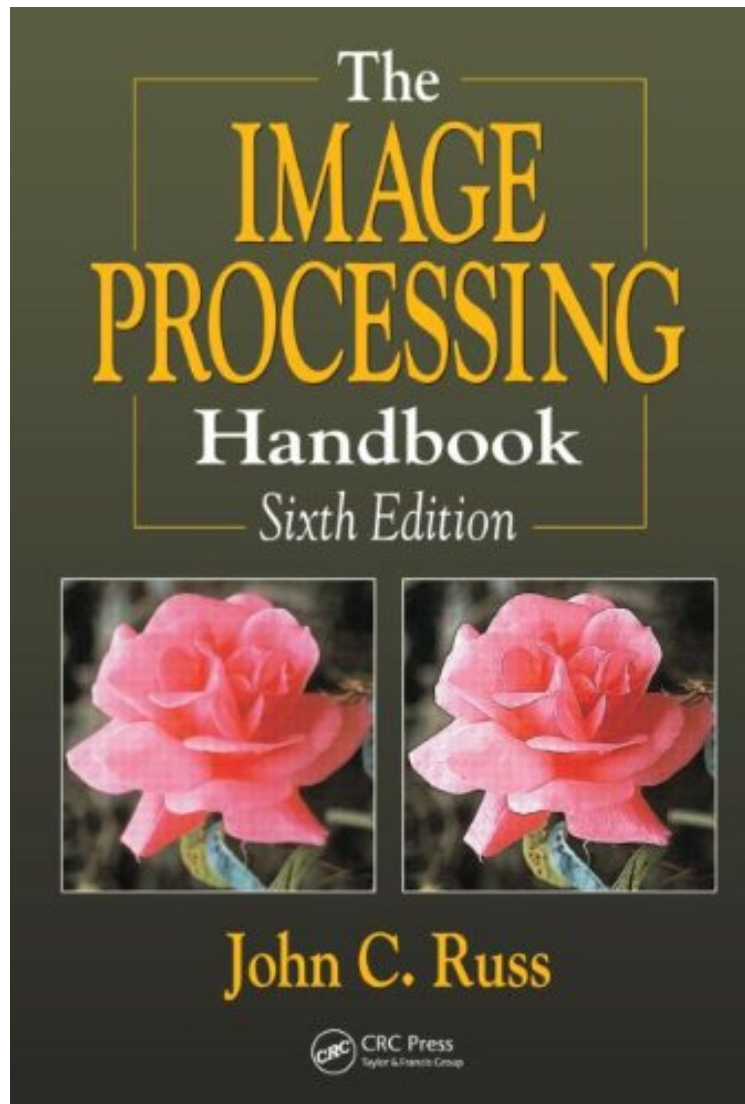


[Get free] The Image Processing Handbook, Sixth Edition

The Image Processing Handbook, Sixth Edition

John C. Russ

*audiobook / *ebooks / Download PDF / ePub / DOC*



DOWNLOAD



READ ONLINE

#2306196 in Books 2011-04-07Original language:English 10.00 x 7.00 x 1.50l, 4.45 #File Name:
1439840458885 pages | File size: 71.Mb

John C. Russ : The Image Processing Handbook, Sixth Edition before purchasing it in order to gage whether or not it would be worth my time, and all praised The Image Processing Handbook, Sixth Edition:

0 of 4 people found the following review helpful. The book is from deep experience and practicalityBy Babatunde H.OThis book is from deep experience and practicality. I think it is unavoidable for image processing group. Russ is really vast in this area.1 of 5 people found the following review helpful. Great resourceBy CustomerI got this book to teach myself digital image analysis, with not enough math in my background. While not concise, the book explains concepts clearly, providing an excellent foundation. I learned a lot!

Whether obtained by microscopes, space probes, or the human eye, the same basic tools can be applied to acquire, process, and analyze the data contained in images. Ideal for self study, *The Image Processing Handbook, Sixth Edition*, first published in 1992, raises the bar once again as the gold-standard reference on this subject. Using extensive new illustrations and diagrams, it offers a logically organized exploration of the important relationship between 2D images and the 3D structures they reveal. Provides Hundreds of Visual Examples in FULL COLOR! The author focuses on helping readers visualize and compare processing and measurement operations and how they are typically combined in fields ranging from microscopy and astronomy to real-world scientific, industrial, and forensic applications. Presenting methods in the order in which they would be applied in a typical workflow from acquisition to interpretation this book compares a wide range of algorithms used to: Improve the appearance, printing, and transmission of an image Prepare images for measurement of the features and structures they reveal Isolate objects and structures, and measure their size, shape, color, and position Correct defects and deal with limitations in images Enhance visual content and interpretation of details This handbook avoids dense mathematics, instead using new practical examples that better convey essential principles of image processing. This approach is more useful to develop readers grasp of how and why to apply processing techniques and ultimately process the mathematical foundations behind them. Much more than just an arbitrary collection of algorithms, this is the rare book that goes beyond mere image improvement, presenting a wide range of powerful example images that illustrate techniques involved in color processing and enhancement. Applying his 50-year experience as a scientist, educator, and industrial consultant, John Russ offers the benefit of his image processing expertise for fields ranging from astronomy and biomedical research to food science and forensics. His valuable insights and guidance continue to make this handbook a must-have reference.

Dr. John C. Russ was the recipient of the 2006 Ernst Abbe Memorial Award of the New York Microscopical Society, for achievements made in the field of microscopy. For more information, visit [//nyms.org](http://nyms.org) "a welcome addition to any reference shelf. Experienced researchers as well as novices will turn to it often to learn about imaging, while for students it provides a gentle yet thorough introduction, appropriate at either the undergraduate or graduate level, to a set of techniques that are used in as many wide-ranging disciplines as microscopy itself. Highly recommended, the book is extremely readable and captures the style of an experienced, knowledgeable teacher." Lou Ross, Electron Microscopy Core, University of Missouri, Columbia in *Microscopy and Microanalysis* About the Author Now retired from the Materials Science and Engineering Department at North Carolina State University, Raleigh, USA, Dr. John C. Russ has worked with many different types of microscopes and image analysis tools to study the microstructure of materials. During a career of nearly 50 years teaching students and working in industry, he has become recognized worldwide as an expert in image analysis. He has developed a familiarity with other types of microstructures and corresponding fields, including foods, biological materials, wood and paper products, textiles, and biomedical and forensic imaging. He has published numerous books and papers, and continues to teach workshops, consult on imaging issues, and provide expert witness testimony. Dr. Russ is the recipient of the Ernst Abbe Memorial Award from the New York Microscopical Society for his achievements in the field of microscopy.