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Imaging and
Sensing

The Colour Image Processing Handbook

Edited by
S.J. Sangwine
and R.C.M. Hornie



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JE Gale



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The Colour Image Processing Handbook Stephen J. Sangwine, Robin E.N. Horne, 2012-12-06 This book is aimed at those using colour image processing or researching new applications or techniques of colour image processing It has been clear for some time that there is a need for a text dedicated to colour We foresee a great increase in the use of colour over the coming years both in research and in industrial and commercial applications We are sure this book will prove a useful reference text on the subject for practicing engineers and scientists for researchers and for students at doctoral and perhaps masters level It is not intended as an introductory text on image processing rather it assumes that the reader is already familiar with basic image processing concepts such as image representation in digital form linear and non linear filtering transforms edge detection and segmentation and so on and has some experience with using at the least monochrome equipment There are many books covering these topics and some of them are referenced in the text where appropriate The book covers a restricted but nevertheless a very important subset of image processing concerned with natural colour that is colour as perceived by the human visual system This is an important field because it shares much technology and basic theory with colour television and video equipment the market for which is worldwide and very large and with the growing field of multimedia including the use of colour images on the Internet

Digital Color Imaging Handbook Gaurav Sharma, Raja Bala, 2017-12-19 Digital technology now enables unparalleled functionality and flexibility in the capture processing exchange and output of color images But harnessing its potential requires knowledge of color science systems processing algorithms and device characteristics topics drawn from a broad range of disciplines One can acquire the requisite background with an armload of physics chemistry engineering computer science and mathematics books and journals or one can find it here in the Digital Color Imaging Handbook Unprecedented in scope this handbook presents in a single concise and authoritative publication the elements of these diverse areas relevant to digital color imaging The first three chapters cover the basics of color vision perception and physics that underpin digital color imaging The remainder of the text presents the technology of color imaging with chapters on color management device color characterization digital halftoning image compression color quantization gamut mapping computationally efficient transform algorithms and color image processing for digital cameras Each chapter is written by world class experts and largely self contained but cross references between chapters reflect the topics important interrelations Supplemental materials are available for download from the CRC Web site including electronic versions of some of the images presented in the book

Color Image Processing Rastislav Lukac, Konstantinos N. Plataniotis, 2018-10-03 Color Image Processing Methods and Applications embraces two decades of extraordinary growth in the technologies and applications for color image processing The book offers comprehensive coverage of state of the art systems processing techniques and emerging applications of digital color imaging To elucidate the significant progress in specialized areas the editors invited renowned authorities to address specific research challenges and recent trends in their

area of expertise The book begins by focusing on color fundamentals including color management gamut mapping and color constancy The remaining chapters detail the latest techniques and approaches to contemporary and traditional color image processing and analysis for a broad spectrum of sophisticated applications including Vector and semantic processing Secure imaging Object recognition and feature detection Facial and retinal image analysis Digital camera image processing Spectral and superresolution imaging Image and video colorization Virtual restoration of artwork Video shot segmentation and surveillance Color Image Processing Methods and Applications is a versatile resource that can be used as a graduate textbook or as stand alone reference for the design and the implementation of various image and video processing tasks for cutting edge applications This book is part of the Digital Imaging and Computer Vision series

The Image Processing Handbook John C. Russ,2006-12-19 Now in its fifth edition John C Russ s monumental image processing reference is an even more complete modern and hands on tool than ever before The Image Processing Handbook Fifth Edition is fully updated and expanded to reflect the latest developments in the field Written by an expert with unequalled experience and authority it offers clea

Introduction to Color Imaging Science Hsien-Che Lee,2005-02-24 Colour imaging technology has become almost ubiquitous in modern life in the form of monitors liquid crystal screens colour printers scanners and digital cameras This book is a comprehensive guide to the scientific and engineering principles of colour imaging It covers the physics of light and colour how the eye and physical devices capture colour images how colour is measured and calibrated and how images are processed It stresses physical principles and includes a wealth of real world examples The book will be of value to scientists and engineers in the colour imaging industry and with homework problems can also be used as a text for graduate courses on colour imaging

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Color Image and Video Enhancement Emre Celebi,Michela Lecca,Bogdan Smolka,2015-09-16 This text covers state of the art color image and video enhancement techniques The book examines the multivariate nature of color image video data as it pertains to contrast enhancement color correction equalization harmonization normalization balancing constancy etc noise removal and smoothing This book also discusses color and contrast enhancement in vision sensors and applications of image and video enhancement

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Bala,2014-08-05 Digital technology now enables unparalleled functionality and flexibility in the capture processing exchange and output of color images But harnessing its potential requires knowledge of color science systems processing algorithms and device characteristics topics drawn from a broad range of disciplines One can acquire the requisite background with an armload of physics chemistry engineering computer science and mathematics books and journals or one can find it here in the Digital Color Imaging Handbook Unprecedented in scope this handbook presents in a single concise and authoritative publication the elements of these diverse areas relevant to digital color imaging The first three chapters cover the basics of color vision perception and physics that underpin digital color imaging The remainder of the text presents the technology of color imaging with chapters on color management device color characterization digital halftoning image compression color quantization gamut mapping computationally efficient transform algorithms and color image processing for digital cameras Each chapter is written by world class experts and largely self contained but cross references between chapters reflect the topics important interrelations Supplemental materials are available for download from the CRC Web site including electronic versions of some of the images presented in the book *Digital Color Image Processing* Andreas Koschan,Mongi A. Abidi,2008-04-18 An introduction to color in three dimensional image processing and the emerging area of multi spectral image processing The importance of color information in digital image processing is greater than ever However the transition from scalar to vector valued image functions has not yet been generally covered in most textbooks Now Digital Color Image Processing fills this pressing need with a detailed introduction to this important topic In four comprehensive sections this book covers The fundamentals and requirements for color image processing from a vector valued viewpoint Techniques for preprocessing color images Three dimensional scene analysis using color information as well as the emerging area of multi spectral imaging Applications of color image processing presented via the examination of two case studies In addition to introducing readers to important new technologies in the field Digital Color Image Processing also contains novel topics such as techniques for improving three dimensional reconstruction three dimensional computer vision and emerging areas of safety and security applications in luggage inspection and video surveillance of high security facilities Complete with full color illustrations and two applications chapters Digital Color Image Processing is the only book that covers the breadth of the subject under one convenient cover It is written at a level that is accessible for first and second year graduate students in electrical and computer engineering and computer science courses and that is also appropriate for researchers who wish to extend their knowledge in the area of color image processing *A Field Guide to Digital Color* Maureen Stone,2016-04-19 Maureen Stone s field guide to digital color presents a survey of digital color with special emphasis on those fields important for computer graphics The book provides the foundation for understanding color and its applications discusses color media and color management and the use of color in computer graphics including color design and selecti **Digital Color Imaging Handbook** Guarav Sharma,2002 **The Journal of Imaging Science and Technology** ,2005 **Digital**

Image Processing William K. Pratt,2001-09-11 CD ROM includes PIKS Programmers s Imaging Kernel System application program interface API core version **The ... IEEE International Conference on Fuzzy Systems Proceedings** ,1998

The Image Processing Handbook John C. Russ,2016-04-19 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 **Pattern Recognition and Image Analysis** ,2005 *Color Science and Imaging Technologies* DaZun Zhao,M. Ronnier Luo,2002 **Wiley Encyclopedia of Telecommunications, Volume 2** John G. Proakis,2003 Contains 275 tutorial articles focused on modern telecommunications topics The contents include articles on communication networks source coding and decoding channel coding and decoding modulation and demodulation optical communications satellite communications underwater acoustic communications radio propagation antennas multiuser communications magnetic storage systems and a variety of standards V 1 p v **Computer Analysis of Images and Patterns** ,2005

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