Optoelectronics Imaging and Sensing

The Colour Image Processing Handbook

Edited by S.J. Sangwine and R.E.N. Horne



COMPACED SCHOOLSCH

Colour Image Processing Handbook

Andreas Koschan, Mongi A. Abidi

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The Colour Image Processing Handbook Stephen J. Sangwine, Robin E.N. Horne, 1998-04-30 1 The present state and the future of colour image processing 2 Colour vison 2 1 What is colous 2 2 The visual pathway 2 3 Light absorption and trichromacy 2 4 Colour appearance and opponet processes 2 5 Other phenomena 2 6 The uses of colour 3 Colour science 3 1 Introduction 3 2 The CIE system 3 3 Colour measurement instruments 3 4 Uniform colour spaces and colour difference formulas 3 5 Colour appearance modelling 4 Colour spaces 4 1 Basic RGB colour space 4 2 XYZ colour space 4 3 Television colour spaces 4 4 Opponent colour space 4 5 Ohta I1I2I3 colour space 4 6 IHS and related percentual colour spaces 4 7 Perceptually unifor colour spaces 4 8 Munsell colour system 4 9 Kodak Photo YCC colour space 4 10 Summary of colour space properties 5 Colour video systems and signals 5 1 Video communication 5 2 Colour reproduction 5 3 Encoded colour systems 6 Image sources 6 1 Overview of sources for image processing 6 2 Cameras 7 Practical system considerations 7 1 Image acquisition technique 7 2 Image storage 7 3 Colorimetric calibration of acquisition hardware 8 Noise removal and contrast enhancement 8 1 Noise removal 8 2 Contrast enhancement 9 Segmentation and edge detection 9 1 Pixel based segmentation 9 2 Region based segmentation 9 3 Edge detection and boundary tracking 9 4 Segmentation adn edge detection quality metrics 10 Vector filtering 10 1 the vector median filter 10 2 Vector directional filters 10 3 Adaptive vector processing filters 10 4 Application to colour images 11 Morphological operations 11 1 Mathematical morphology Colour morphology 11 3 Multiscale image analysis 11 4 Image enhancement 12 Frequenci domain methods 12 1 Review of the 2D discrete Fourier transform 12 2 Complex chromaticity 12 3 The quaternion Fourier transform 12 4 Disicussion 13 Compression 13 1 Image and video compression 13 2 Component wise still image compression 13 3 Exploitation of mutual colour component dependencies 13 4 Colour video comression 14 Colour management for the textile industry 14 1 Overviwe of colour flow in the textile industry 14 2 Colour management systems 14 3 CRT characterization 14 4 WYSIWYG colour management 14 5 Colour notation 14 6 Colour quality control 14 7 The colour talk system 15 Colour management for the graphic arts 15 1 Overview of the graphic arts environment 15 2 Colour management systems overview 15 3 Characterization and calibration of system components 15 4 Gamut mapping 15 5 Current colour management systems 16 Medical imaging case study 16 1 Wound metrics the background and motiviation 16 2 Principle of structured ligh 16 3 Implementatin of the status of healing 16 4 Assessment of the status of healing 16 5 Automatic segmentation of the wound 16 6 Visualization and storage of data 17 Industrial colour inspection case studies 17 1 Inspection of printed card 17 2 Inspection of fast moving Color Image Processing Rastislav Lukac, Konstantinos N. Plataniotis, 2018-10-03 Color beverage cans References Index 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 The Image Processing Handbook John C. Russ, F. Brent Neal, 2018-09-03 Consistently rated as the best overall offers clea introduction to computer based image processing The Image Processing Handbook covers two dimensional 2D and three dimensional 3D imaging techniques image printing and storage methods image processing algorithms image and feature measurement quantitative image measurement analysis and more Incorporating image processing and analysis examples at all scales from nano to astro this Seventh Edition Features a greater range of computationally intensive algorithms than previous versions Provides better organization more quantitative results and new material on recent developments Includes completely rewritten chapters on 3D imaging and a thoroughly revamped chapter on statistical analysis Contains more than 1700 references to theory methods and applications in a wide variety of disciplines Presents 500 entirely new figures and images with more than two thirds appearing in color The Image Processing Handbook Seventh Edition delivers an accessible and up to date treatment of image processing offering broad coverage and comparison of algorithms approaches and Introduction to Color Imaging Science Hsien-Che Lee, 2005-02-24 Colour imaging technology has become outcomes 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 Computational Vision and Medical Image Processing Joao Manuel R.S. Tavares, R.M. Natal Jorge, 2009-10-01 Computational Vision and Medical Image Processing VIPIMAGE 2009 contains the full papers

presented at VIPIMAGE 2009 Second ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing held in Porto Portugal on 14 16 October 2009 International contributions from twenty countries provide a comprehensive coverage of the curr Computational Vision and Medical Image Processing João Manuel R.S. Tavares, R.M. Natal Jorge, 2009-10-01 Computational Vision and Medical Image Processing VIPIMAGE 2009 contains the full papers presented at VIPIMAGE 2009 Second ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing held in Porto Portugal on 14 16 October 2009 International contributions from twenty countries provide a comprehensive coverage of the curr 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 **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 **Pattern Recognition and Image Analysis** ,2005 The Journal of Imaging Science and Technology, 2005 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

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