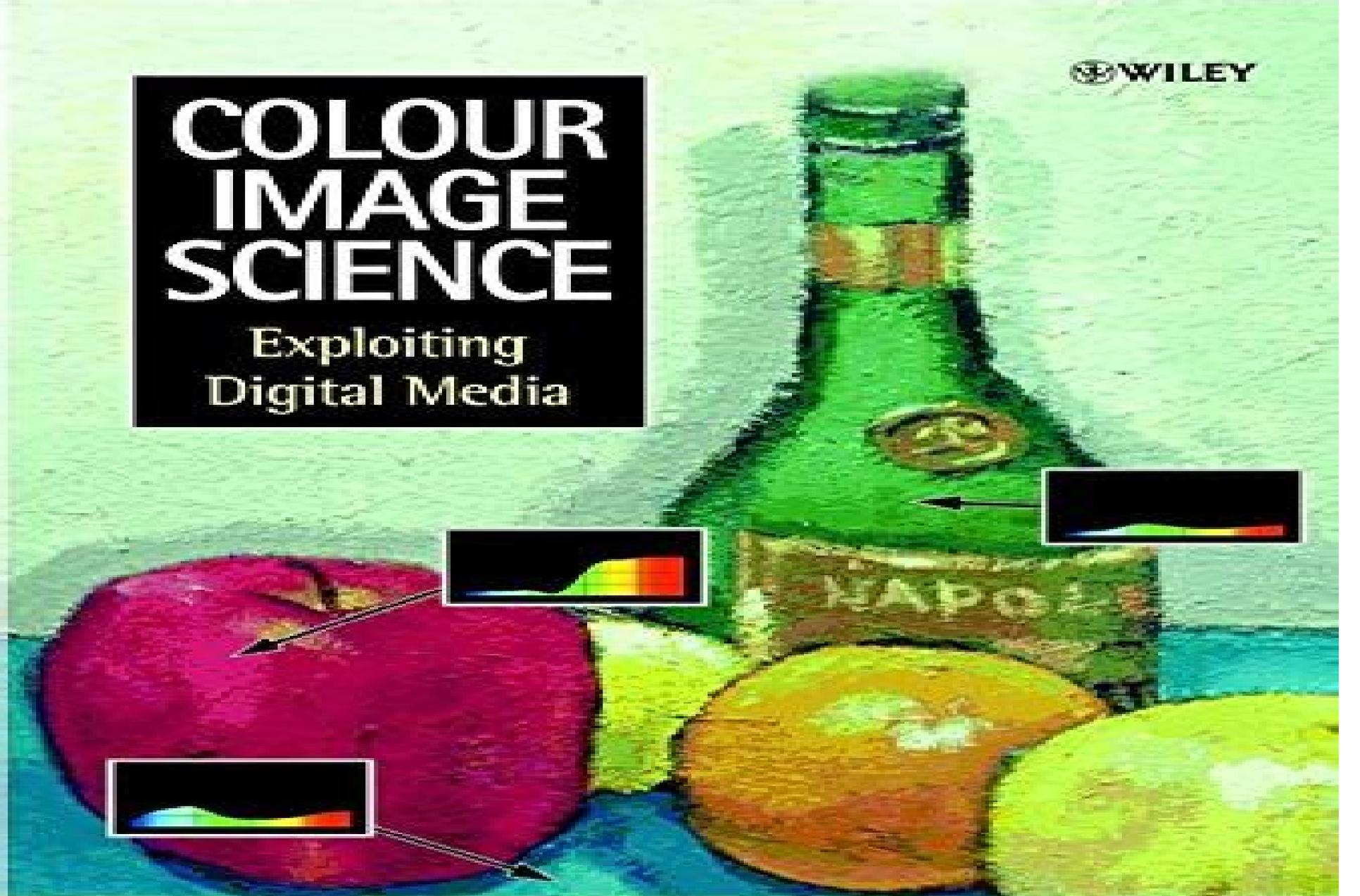WILEY

COLOUR IMAGE SCIENCE

Exploiting Digital Media

Edited by

Lindsay W. MacDonald | M. Ronnier Luo

Colour Image Science Exploiting Digital Media

Christian G. Meyer

Colour Image Science Exploiting Digital Media:

   Colour Image Science Lindsay MacDonald,M. Ronnier Luo,2002-10-22 The scope and importance of colour image science has grown rapidly in recent years In parallel with the proliferation of consumer imaging products the capabilities of colour displays printers and digital cameras increase New challenges for colour image science are emerging as cross media image reproduction is applied in Internet and multimedia displays motion pictures digital television and augmented reality systems Colour Image Science takes an interdisciplinary approach combining aspects of human vision with colour image capture processing and reproduction Colour Vision How we see and remember colours Multispectral Imaging Capturing and storing images in more than 3 channels Image Processing Correcting image colours and accessing databasess Gamut Mapping How to render colours in cross media image reproduction Image Quality Metrics and methods for assessing images Colour Image Science will appeal to a wide readership including scientists and engineers involved in the research and development of colour imaging products It will also be a valuable reference text for post graduate students in computer science digital imaging and multimedia programmes   **Vision Models for High Dynamic Range and Wide Colour Gamut Imaging** Marcelo Bertalmío,2019-11-06 To enhance the overall viewing experience for cinema TV games AR VR the media industry is continuously striving to improve image quality Currently the emphasis is on High Dynamic Range HDR and Wide Colour Gamut WCG technologies which yield images with greater contrast and more vivid colours The uptake of these technologies however has been hampered by the significant challenge of understanding the science behind visual perception Vision Models for High Dynamic Range and Wide Colour Gamut Imaging provides university researchers and graduate students in computer science computer engineering vision science as well as industry R D engineers an insight into the science and methods for HDR and WCG It presents the underlying principles and latest practical methods in a detailed and accessible way highlighting how the use of vision models is a key element of all state of the art methods for these emerging technologies Presents the underlying vision science principles and models that are essential to the emerging technologies of HDR and WCG Explores state of the art techniques for tone and gamut mapping Discusses open challenges and future directions of HDR and WCG research   **Image Analysis** Josef Bigun,Thomas Gustavsson,2003-08-02 This book constitutes the refeered proceedings of the 13th Scandinavian Conference on Image Analysis SCIA 2003 held in Halmstad Sweden in June July 2003 The 148 revised full papers presented together with 6 invited contributions were carefully reviewed and selected for presentation The papers are organized in topical sections on feature extraction depth and surface shape analysis coding and representation motion analysis medical image processing color analysis texture analysis indexing and categorization and segmentation and spatial grouping   **Handbook of Digital Imaging** Michael Kriss,2015-02-16 A comprehensive and practical analysis and overview of the imaging chain through acquisition processing and display The Handbook of Digital Imaging provides a coherent overview of the imaging science amalgam focusing on the capture storage

and display of images The volumes are arranged thematically to provide a seamless analysis of the imaging chain from source image acquisition to destination image print display The coverage is planned to have a very practical orientation to provide a comprehensive source of information for practicing engineers designing and developing modern digital imaging systems The content will be drawn from all aspects of digital imaging including optics sensors quality control colour encoding and decoding compression projection and display Contains approximately 50 highly illustrated articles printed in full colour throughout Over 50 Contributors from Europe US and Asia from academia and industry The 3 volumes are organized thematically for enhanced usability Volume 1 Image Capture and Storage Volume 2 Image Display and Reproduction Hardcopy Technology Halftoning and Physical Evaluation Models for Halftone Reproduction Volume 3 Imaging System Applications Media Imaging Remote Imaging Medical and Forensic Imaging 3 Volumes www handbookofdigitalimaging com

Digital Heritage Lindsay MacDonald,2006-08-11 In the fields of documentation and conservation of cultural heritage assets there is a constant need for higher quality records and better analytical tools for extracting information about the condition of artefacts Digital photography and digital image processing provide these capabilities and recent technological advances in both fields promise new levels of performance for the capture and understanding of colour images This inter disciplinary book covers the imaging of decorated surfaces in historical buildings and the digitisation of documents paintings and objects in museums and galleries and shows how user requirements can be met by application of powerful digital imaging techniques Numerous case studies illustrate the methods   **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

The Manual of Photography Elizabeth Allen,2012-11-12 The tenth edition of The Manual of Photography is an indispensable textbook for anyone who is serious about photography It is ideal if you want to gain insight into the underlying scientific principles of photography and digital imaging whether you are a professional photographer lab technician researcher or student in the field or simply an enthusiastic amateur This comprehensive guide takes you from capture to output in both digital and film media with sections on lens use darkroom techniques digital cameras and scanners image editing techniques and processes workflow digital file formats and image archiving This iconic text was first published in 1890 and has aided many thousands of photographers in developing their own techniques and understanding of the medium Now in full colour The Manual of Photography still retains its clear reader friendly style and is filled with images and illustrations demonstrating the key principles Not only giving you the skills and know how to take stunning photographs but will also allowing you to fully understand the science behind the creation of great images   Colour Engineering Phil Green,Lindsay MacDonald,2011-09-23 As colour imaging takes on increasing importance in a range of products and

technologies colour fidelity across different media has become essential This book has arisen from the need for a specialist text that brings together key developments in colour management technology and findings from the colour engineering research community Edited by highly regarded specialists in colour management systems Colour Engineering introduces the reader systematically to the art of constistent quality of image reproduction regardless of the monitor or graphic user interface employed Features a thorough review of the elements of colour science that apply to colour imaging a comprehensive analysis of methods for characterizing devices in the colour imaging chain a review of the key topics in colour management the different approaches to implementing colour systems at some of the leading exponents in the imaging industry This authoritative book depicting the latest developments in colour imaging written by a group of authors at the forefront of research in this exciting and fast moving field will appeal to students as well as practitioners of the new discipline of colour engineering The Society for Information Display SID is an international society which has the aim of encouraging the development of all aspects of the field of information display Complementary to the aims of the society the Wiley SID series is intended to explain the latest developments in information display technology at a professional level The broad scope of the series addresses all facets of information displays from technical aspects through systems and prototypes to standards and ergonomics **Color Gamut Mapping** Ján Morovič,2008-09-15 Gamut mapping algorithms implemented by color management systems are an integral part of the color reproduction process By adjusting the colors with appropriate algorithms gamut mapping enables original colors to fit inside differently shaped color gamuts and authentically transfers images across a range of media This book illustrates the range of possible gamut mapping strategies for cross media color reproduction evaluates the performance of various options and advises on designing new improved solutions Starting with overviews of color science reproduction and management the text includes a detailed survey of 90 gamut mapping algorithms covering color by color reduction and expansion spatial reduction spectral reduction and gamut mapping for niche applications a step by step example of a color s journey from original to reproduction via a digital workflow a detailed analysis of color gamut computation including a comparison of alternative techniques and an illustration of the gamuts of salient color sets and media a presentation of both measurement based and psychovisual evaluation of individual color reproductions an overview of alternative approaches to gamut mapping proposed by the ISO and the CIE including an analysis of the building blocks of gamut mapping algorithms and the factors affecting their performance Color Gamut Mapping is a comprehensive resource for practicing color and imaging engineers scientists and researchers working in the development of imaging devices software and solutions It is also a valuable reference for students of color and imaging science as well as photographers graphic designers and artists *Internet Imaging* ,2000 **The Journal of Imaging Science and Technology** ,2005 **Final Program and Proceedings** ,2003 Color Appearance Models Mark D. Fairchild,2005-02-07 Mark D Fairchild s popular text Color Appearance Models has been fully revised and updated for a

second edition providing a comprehensive coverage of the fast growing field of color management and appearance An easy to follow resource for both students and practicing engineers using color images the book now includes the most recent developments in the CIE model now CIECAM02 and in chromatic adaptation transforms There is also a new introduction to image appearance modeling a developing area of research for color appearance application Color Appearance Models is a valuable reference for a range of advanced students in technology programs and color engineers color scientists and imaging professionals working on engineering color systems BOOK JACKET   **Image and Video Retrieval** ,2005   **Computer Analysis of Images and Patterns** ,2005   *Human Vision and Electronic Imaging* ,2003   *Performance of Protective Clothing* ,2005   *Sixth International Conference on Quality Control by Artificial Vision* Kenneth W. Tobin,2003   **Knowledge-based Intelligent Information and Engineering Systems** ,2005   Information Display ,2007

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