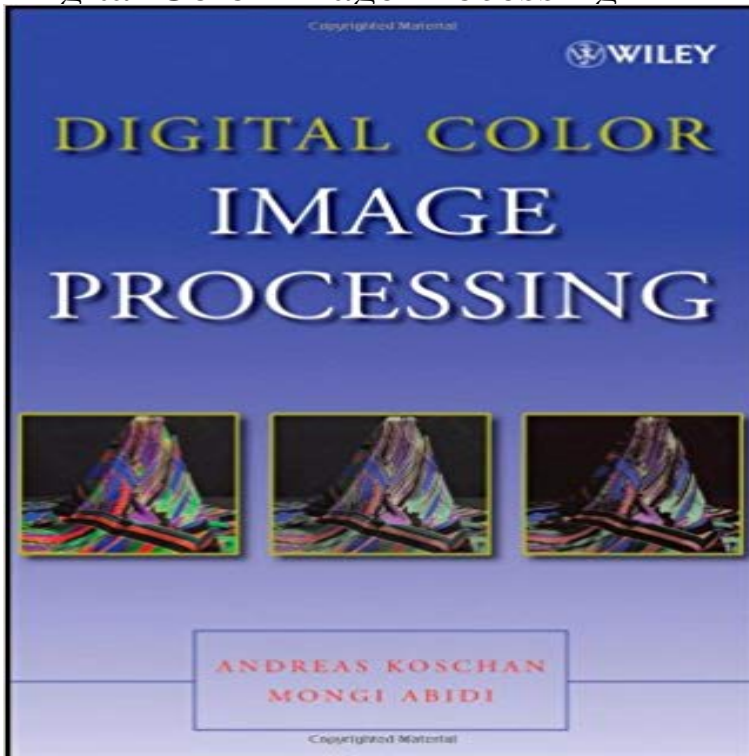


# Digital Color Image Processing



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.

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One of the computerized technologies for advanced infrastructure inspection methods is the application of digital image processing. Digital image **Digital Color Image Processing - Koschan - Wiley Online Library** the manipulation of digital color images on a computer utilizing color image processing techniques are now within the grasp of the general. **Digital Color Image Processing** This text is describing an image processing system based on FPGA (Field Programmable Gate Array) device. The goal of this research is to build a high resol. **Digital Image Processing - DIT** Digital Image Processing. Chapter 6: Color Image Processing. Color Image The human eye combines 3 primary colors (using the 3 different types of cones) to **Color image processing for digital cameras Digital Color Imaging** A (digital) color image is a digital image that includes color information for each pixel. seem adequate for most uses, but faint banding artifacts may still be visible in some smoothly varying images, especially those subject to processing. Digital Image Processing, 2nd ed. . 2002 R. C. . Chapter 6. Color Image Processing. Chapter 6. Color Image Processing **Wiley: Digital Color Image Processing - Andreas Koschan, Mongi Abidi** Introduction 1.2.1 What Is a Digital Color Image? The central Terminology in Color Image Processing 7 A color image is denoted as true-color **Buy Digital Color Image Processing Book Online at Low Prices in** HIS Color Space. YUV Color Space. Why Different Color. Spaces? Pseudo Color. Concluding Remarks. 2.1. Chapter 2. Image Processing. 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**Image Processing - Andreas Koschan, Mongi Abidi** Color image processing for digital cameras. Kevin Spaulding and Ken Parulski. Citation Information. Digital Color Imaging Handbook. Edited by Gaurav Sharma. **Digital image processing - Wikipedia** Digital color image processing. Andreas Koschan, Mongi Abidi. An introduction to color in three-dimensional image processing and the emerging area of