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**Sinopsis**

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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