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| Nota di contenuto | Preface -- 1 Automated Color Misalignment Correction for Close-Range and Long-Range Hyper-Resolution Multi-Line CCD Images, by Zhiyu Chen, Andreas Koschan, Chung-Hao Chen, and Mongi Abidi -- 2 Adaptive Demosaicing Algorithm Using Characteristics of the Color Filter Array Pattern, by Ji Won Lee and Rae-Hong Park -- 3 A Taxonomy of Color Constancy and Invariance Algorithm, by Dohyoung Lee and Konstantinos N. Plataniotis -- 4 On the von Kries Model: Estimate, Dependence on Light and Device, and Applications, by Michela Lecca -- 5 Impulse and mixed multi-channel denoising using statistical halfspace depth functions, by Djordje Baljodzovi, Aleksandra Baljodzovi, Branko Kovaevi -- 6 Spatially Adaptive Color Image Processing, by Johan Debayle and Jean-Charles Pinoli -- 7 Vector ordering and multispectral morphological image processing, by Santiago Velasco-Forero and Jesus Angulo -- 8 Morphological Template Matching in Color Images, by Sébastien Lefèvre, Erhan Aptoula, Benjamin Perret, and Jonathan Weber -- 9 Tensor Voting for Robust Color Edge Detection, by Rodrigo Moreno, Miguel Angel Garcia, and Domènec Puig -- 10 Color Categorization Models for Color Image Segmentation, by Teresa Alarcon, Oscar Dalmau -- 11 Skin region detection and |

segmentation in color images, by Michal Kawulok, Jakub Nalepa and Jolanta Kawulok -- 12 Contribution of skin color cue in face detection applications, by Dohyoung Lee, Jeaff Wang, and Konstantinos N. Plataniotis -- 13 Color Saliency Evaluation for Video Game Design, by Richard M. Jiang, Ahmed Bouridane, and Abbas Amira.

Sommario/riassunto

Color perception plays an important role in object recognition and scene understanding both for humans and intelligent vision systems. Recent advances in digital color imaging and computer hardware technology have led to an explosion in the use of color images in a variety of applications including medical imaging, content-based image retrieval, biometrics, watermarking, digital inpainting, remote sensing, visual quality inspection, among many others. As a result, automated processing and analysis of color images has become an active area of research, to which the large number of publications of the past two decades bears witness. The multivariate nature of color image data presents new challenges for researchers and practitioners as the numerous methods developed for single channel images are often not directly applicable to multichannel ones. The goal of this volume is to summarize the state-of-the-art in the early stages of the color image processing pipeline.
