

The background of the cover is a dark, textured image of a hand holding a camera lens. The hand is positioned in the lower-left quadrant, with fingers wrapped around the lens. The lens is the central focus, showing its internal elements and the front element. The background is filled with a pattern of binary code (0s and 1s) in a light, semi-transparent font, creating a digital atmosphere. The overall color palette is dark, with shades of brown, black, and grey, accented by the yellow and orange of the title text.

Single-Sensor Imaging

Methods and Applications
for Digital Cameras

Edited by

Rastislav Lukac



CRC Press
Taylor & Francis Group

Single-Sensor Imaging: Methods and Applications for Digital Cameras

Rastislav Lukac

A Decade of awesome GrowthThe earlier decade has introduced a surge of development within the applied sciences for electronic colour imaging, multidimensional sign processing, and visible scene analysis. those advances were the most important to constructing new camera-driven functions and advertisement items in electronic photography. Single-Sensor Imaging: equipment and purposes for electronic Cameras embraces this notable progress, comprehensively masking state of the art systems, processing techniques, and rising applications. Experts handle demanding situations and TrendsSingle-Sensor Imaging: equipment and purposes for electronic Cameras provides prime specialists elucidating their very Single-Sensor Imaging: Methods and Applications for Digital Cameras own accomplishments in constructing the applied sciences reshaping this field. The editor invited well known gurus to handle particular examine demanding situations and up to date traits of their specific components of expertise. The booklet discusses single-sensor electronic colour imaging fundamentals, together with reusable embedded software program platform, digicam snapshot processing chain, optical clear out and colour clear out Single-Sensor Imaging: Methods and Applications for Digital Cameras array designs. It additionally info the most recent options and methods in modern and standard camera colour picture processing and research for numerous subtle applications, including: Demosaicking and colour recovery White balancing and colour move Single-Sensor Imaging: Methods and Applications for Digital Cameras colour and publicity correction photograph denoising and colour enhancement snapshot compression and garage codecs Red-eye detection and elimination picture resizing Video-demosaicking and superresolution imaging snapshot and video stabilizationA good starting place of data to resolve ProblemsSingle-Sensor Imaging: tools and purposes for electronic Cameras builds a powerful basic knowing of concept and techniques for fixing lots of at the present time s best and difficult difficulties in electronic colour snapshot and video acquisition, analysis, processing, and storage. A wide survey of the present recommendations and appropriate literature makes this booklet a worthwhile source either for researchers and people utilising quickly evolving camera technologies."

Single Sensor Imaging Methods And Applications For Digital Cameras

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