



High Dynamic Range Video (Paperback)

By Karol Myszkowski, Rafał Mantiuk, Grzegorz Krawczyk

Morgan Claypool Publishers, United States, 2008. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.As new displays and cameras offer enhanced color capabilities, there is a need to extend the precision of digital content. High Dynamic Range (HDR) imaging encodes images and video with higher than normal 8 bit-per-color-channel precision, enabling representation of the complete color gamut and the full visible range of luminance. However, to realize transition from the traditional to HDR imaging, it is necessary to develop imaging algorithms that work with the high-precision data. To make such algorithms effective and feasible in practice, it is necessary to take advantage of the limitations of the human visual system by aligning the data shortcomings to those of the human eye, thus limiting storage and processing precision. Therefore, human visual perception is the key component of the solutions we discuss in this book. This book presents a complete pipeline for HDR image and video processing from acquisition, through compression and quality evaluation, to display. At the HDR image and video acquisition stage specialized HDR sensors or multi-exposure techniques suitable for traditional cameras are discussed. Then, we present a practical solution for pixel values calibration in terms of photometric or radiometric quantities,...



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