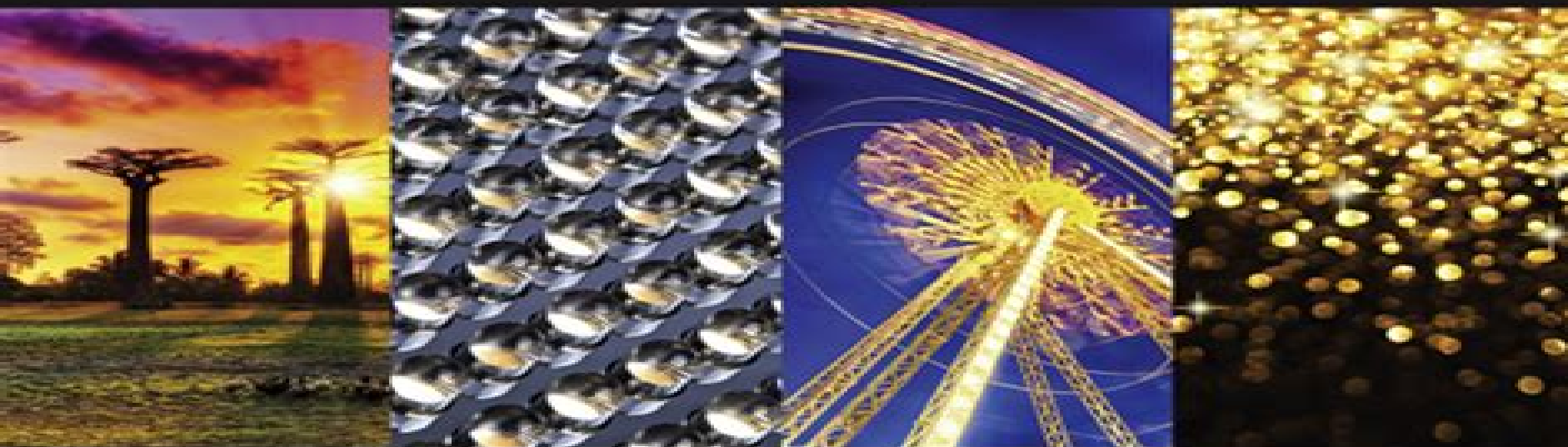


High Dynamic Range Video

From Acquisition to Display and Applications



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High Dynamic Range Rafal Mantiuk

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High Dynamic Range Rafal Mantiuk:

Advanced High Dynamic Range Imaging Francesco Banterle, Alessandro Artusi, Kurt Debattista, Alan Chalmers, 2011-02-10
Imaging techniques seek to simulate the array of light that reaches our eyes to provide the illusion of sensing scenes directly. Both photography and computer graphics deal with the generation of images. Both disciplines have to cope with the high dynamic range in the energy of visible light that human eyes can sense. Traditionally, photography and computer graphics took different approaches to the high dynamic range problem. Work over the last ten years though has unified these disciplines and created powerful new tools for the creation of complex, compelling, and realistic images. This book provides a practical introduction to the emerging new discipline of high dynamic range imaging that combines photography and computer graphics. By providing detailed equations and code, the book gives the reader the tools needed to experiment with new techniques for creating compelling images. A supplemental website contains downloads and additional information.

High Dynamic Range Video Karol Myszkowski, Rafal Mantiuk, Grzegorz Krawczyk, 2022-05-31
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, which are required in some technically oriented applications. Also, we cover the problem of efficient image and video compression and encoding, either for storage or transmission purposes, including the aspect of backward compatibility with existing formats. Finally, we review existing HDR display technologies and the associated problems of image contrast and brightness adjustment. For this purpose, tone mapping is employed to accommodate HDR content to LDR devices. Conversely, the so-called inverse tone mapping is required to upgrade LDR content for displaying on HDR devices. We overview HDR-enabled image and video quality metrics, which are needed to verify algorithms at all stages of the pipeline. Additionally, we cover successful examples of the HDR technology applications, in particular in computer graphics and computer vision. The goal of this book is to present all discussed components of the HDR pipeline, with the main focus on video. For some pipeline stages, HDR video solutions are either not well established or do not exist at all, in which case we describe techniques for single HDR

images In such cases we attempt to select the techniques which can be extended into temporal domain Whenever needed relevant background information on human perception is given which enables better understanding of the design choices behind the discussed algorithms and HDR equipment Table of Contents Introduction Representation of an HDR Image HDR Image and Video Acquisition HDR Image Quality HDR Image Video and Texture Compression Tone Reproduction HDR Display Devices LDR2HDR Recovering Dynamic Range in Legacy Content HDRI in Computer Graphics Software *High Dynamic Range Imaging* Erik Reinhard, Wolfgang Heidrich, Paul Debevec, Sumanta Pattanaik, Greg Ward, Karol Myszkowski, 2010-05-28 High Dynamic Range Imaging Second Edition is an essential resource for anyone working with images whether it is for computer graphics film video photography or lighting design It describes HDRI technology in its entirety and covers a wide range of topics from capture devices to tone reproduction and image based lighting The techniques described enable students to produce images that have a dynamic range much closer to that found in the real world leading to an unparalleled visual experience This revised edition includes new chapters on High Dynamic Range Video Encoding High Dynamic Range Image Encoding and High Dynamic Range Display Devices All existing chapters have been updated to reflect the current state of the art technology As both an introduction to the field and an authoritative technical reference this book is essential for anyone working with images whether in computer graphics film video photography or lighting design New material includes chapters on High Dynamic Range Video Encoding High Dynamic Range Image Encoding and High Dynamic Range Display Devices Written by the inventors and initial implementors of High Dynamic Range Imaging Covers the basic concepts including just enough about human vision to explain why HDR images are necessary image capture image encoding file formats display techniques tone mapping for lower dynamic range display and the use of HDR images and calculations in 3D rendering Range and depth of coverage is good for the knowledgeable researcher as well as those who are just starting to learn about High Dynamic Range imaging The prior edition of this book included a DVD ROM Files from the DVD ROM can be accessed at http://www.erikreinhard.com/hdr_2nd/index.html

High-Dynamic-Range (HDR) Vision Bernd Hoefflinger, 2007-02-16 Creating high fidelity images of our world has been a continuous challenge even as our understanding and skills have evolved The acquisition and mapping of the rich and complex content of visual information rank high among the most demanding technical tasks Now electronic image sensors can record a dynamic range from bright to dark of more than seven orders of magnitude thus exceeding the ability of a human eye by more than a hundred times and displaying five orders of magnitude in brightness resulting in CRT and LCD displays with more than 100 fold improvement This first comprehensive account of high dynamic range HDR vision focusses on HDR real time high speed digital video recording and also systematically presents HDR video transmission and display The power of the eye like logarithmic optoelectronic conversion concept is demonstrated in machine vision medical automotive surveillance and cinematic applications and it is extended to HDR sub retinal implants for the vision impaired

While the book conveys the overall picture of HDR vision specific knowledge of microelectronics and image processing is not required It provides a quantitative summary of the major issues to allow the assessment of the state of the art and a glimpse at future developments Selected experts share their know how and expectations in this rapidly evolving art related to the single most powerful of our senses **Computer Vision - ECCV 2020 Workshops** Adrien Bartoli,Andrea

Fusiello,2021-01-29 The 6 volume set comprising the LNCS books 12535 until 12540 constitutes the refereed proceedings of 28 out of the 45 workshops held at the 16th European Conference on Computer Vision ECCV 2020 The conference was planned to take place in Glasgow UK during August 23 28 2020 but changed to a virtual format due to the COVID 19 pandemic The 249 full papers 18 short papers and 21 further contributions included in the workshop proceedings were carefully reviewed and selected from a total of 467 submissions The papers deal with diverse computer vision topics Part III includes the Advances in Image Manipulation Workshop and Challenges **Image Content Retargeting** Alessandro

Artusi,Francesco Banterle,Tunç Ozan Aydın,Daniele Panozzo,Olga Sorkine-Hornung,2016-08-05 In recent years visual devices have proliferated from the massive high resolution high contrast screens to the tiny ones on mobile phones with their limited dynamic range and color gamut The wide variety of screens on which content may be viewed creates a challenge for developers Adapting visual content for optimized viewing on all devices is called retargeting This is the first book to provide a holistic view of the subject thoroughly reviewing and analyzing the many techniques that have been developed for retargeting along dimensions such as color gamut dynamic range and spatial resolution Beginning Digital Image

Processing Sebastian Montabone,2010-09-08 Since the advent of digital photography we have been able to post process our pictures However to do it properly we have to become digital art apprentices Sebastian Montabone is a computer vision expert who wants us to use our cameras and image processing software to come up with works of art In this book he teaches image processing techniques of ascending difficulty based on freely available tools The book teaches you to use the best tools for the job and it focuses on the techniques not the environments or toolchains in which they run Also in this book you ll learn about the Canon Hack Development Kit CHDK which expands the features of some cameras **Digital Heritage**

Reconstruction Using Super-resolution and inpainting Milind G. Padalkar,Manjunath V. Joshi,Nilay L.

Khatri,2022-06-01 Heritage sites across the world have witnessed a number of natural calamities sabotage and damage from visitors resulting in their present ruined condition Many sites are now restricted to reduce the risk of further damage Yet these masterpieces are significant cultural icons and critical markers of past civilizations that future generations need to see A digitally reconstructed heritage site could diminish further harm by using immersive navigation or walkthrough systems for virtual environments An exciting key element for the viewer is observing fine details of the historic work and viewing monuments in their undamaged form This book presents image super resolution methods and techniques for automatically detecting and inpainting damaged regions in heritage monuments in order to provide an enhanced visual experience The

book presents techniques to obtain higher resolution photographs of the digitally reconstructed monuments and the resulting images can serve as input to immersive walkthrough systems It begins with the discussion of two novel techniques for image super resolution and an approach for inpainting a user supplied region in the given image followed by a technique to simultaneously perform super resolution and inpainting of given missing regions It then introduces a method for automatically detecting and repairing the damage to dominant facial regions in statues followed by a few approaches for automatic crack repair in images of heritage scenes This book is a giant step toward ensuring that the iconic sites of our past are always available and will never be truly lost

Heterogeneous Spatial Data Giuseppe Patanè, Michela Spagnuolo, 2022-05-31 New data acquisition techniques are emerging and are providing fast and efficient means for multidimensional spatial data collection Airborne LIDAR surveys SAR satellites stereo photogrammetry and mobile mapping systems are increasingly used for the digital reconstruction of the environment All these systems provide extremely high volumes of raw data often enriched with other sensor data e g beam intensity Improving methods to process and visually analyze this massive amount of geospatial and user generated data is crucial to increase the efficiency of organizations and to better manage societal challenges Within this context this book proposes an up to date view of computational methods and tools for spatio temporal data fusion multivariate surface generation and feature extraction along with their main applications for surface approximation and rainfall analysis The book is intended to attract interest from different fields such as computer vision computer graphics geomatics and remote sensing working on the common goal of processing 3D data To this end it presents and compares methods that process and analyze the massive amount of geospatial data in order to support better management of societal challenges through more timely and better decision making independent of a specific data modeling paradigm e g 2D vector data regular grids or 3D point clouds We also show how current research is developing from the traditional layered approach adopted by most GIS softwares to intelligent methods for integrating existing data sets that might contain important information on a geographical area and environmental phenomenon These services combine traditional map oriented visualization with fully 3D visual decision support methods and exploit semantics oriented information e g a priori knowledge annotations segmentations when processing merging and integrating big pre existing data sets

An Introduction to Laplacian Spectral Distances and Kernels Giuseppe Patanè, 2022-05-31 In geometry processing and shape analysis several applications have been addressed through the properties of the Laplacian spectral kernels and distances such as commute time biharmonic diffusion and wave distances Within this context this book is intended to provide a common background on the definition and computation of the Laplacian spectral kernels and distances for geometry processing and shape analysis To this end we define a unified representation of the isotropic and anisotropic discrete Laplacian operator on surfaces and volumes then we introduce the associated differential equations i e the harmonic equation the Laplacian eigenproblem and the heat equation Filtering the Laplacian spectrum we introduce the Laplacian

spectral distances which generalize the commute time biharmonic diffusion and wave distances and their discretization in terms of the Laplacian spectrum As main applications we discuss the design of smooth functions and the Laplacian smoothing of noisy scalar functions All the reviewed numerical schemes are discussed and compared in terms of robustness approximation accuracy and computational cost thus supporting the reader in the selection of the most appropriate with respect to shape representation computational resources and target application

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