

High Dynamic Range Video

Joshua Peter Ebenezer

High Dynamic Range Video Karol Myszkowski, Rafal Mantiuk, Grzegorz Krawczyk, 2008-09-08 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 Video Alan Chalmers, Patrizio Campisi, Peter Shirley, Igor García Olazola, 2016-12-05 High Dynamic Range Video: Concepts, Technologies and Applications gives an introduction to a full range of topics within the end-to-end HDR video pipeline, covering the issues around capturing HDR and stereo HDR video, such as ghosting and use of legacy LDR systems, how HDR video can be manipulated, including real-time mixing, the very latest designs for HDR displays, HDR video on mobile devices, and the applications of HDR video. With this book, the reader will gain an overview of the current state-of-the art of HDR video, learn the potential of HDR video to provide a step change to a wide range of imaging applications, and attain the knowledge needed to introduce HDR video in their own applications. - Written by experts who have been actively researching High Dynamic Range Video - Covers a full range of topics within the end-to-end HDR video pipeline - Provides applications that demonstrate how HDR video can be applied

High Dynamic Range Video Frédéric Dufaux, Patrick Le Callet, Rafal Mantiuk, Marta Mrak, 2016-04-27 At the time of rapid technological progress and uptake of High Dynamic Range (HDR) video content in numerous sectors, this book provides an overview of the key supporting technologies, discusses the effectiveness of various techniques, reviews the initial standardization efforts and explores new research directions in all aspects involved in HDR video systems. Topics addressed include content acquisition and production, tone mapping and inverse tone mapping operators, coding, quality of experience, and display technologies. This book also explores a number of applications using HDR video technologies in the automotive industry, medical imaging, spacecraft imaging, driving simulation and watermarking. By covering general to advanced topics, along with a broad and deep analysis, this book is suitable for both the researcher new or familiar to the area. With this book the reader will: - Gain a broad understanding of all the elements in the HDR video processing chain - Learn the most recent results of ongoing research - Understand the challenges and perspectives for HDR video technologies - Covers a broad range of topics encompassing the whole processing chain in HDR video systems, from acquisition to display - Provides a comprehensive overview of this fast emerging topic - Presents upcoming applications taking advantages of HDR

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.

Time-Lapse Video: High-Dynamic Range (HDR). ,2014 Take a trip to Zion National Park to shoot an HDR time-lapse video, compliments of Rich Harrington and the crew at RHED Pixel. Watch as they show how to capture the sun as it moves across a rock face in this historic park and then enhance the natural beauty of the time-lapse sequence with dramatic HDR development and toning techniques. Along the way, Rich explains what gear you'll need to capture the scene and protect your camera from the elements, and how to set up your camera to shoot JPEG or RAW, create an in-camera HDR sequence, and add finishing touches in post-production programs like Photomatix Pro, After Effects, and Camera Raw. This course was created and produced by RHED Pixel. We are honored to host this content in our library.

High Dynamic Range Imaging Erik Reinhard,Greg Ward,Sumanta Pattanaik,Paul Debevec,2005-11-21 High dynamic range imaging produces images with a much greater range of light and color than conventional imaging. The effect is stunning, as great as the difference between black-and-white and color television. High Dynamic Range Imaging is the first book to describe this exciting new field that is transforming the media and entertainment industries. Written by the foremost researchers in HDRI, it will explain and define this new technology for anyone who works with images, whether it is for computer graphics, film, video, photography, or lighting design.* Written by the leading researchers in HDRI* Covers all the areas of high dynamic range imaging including capture devices, display devices, file formats, dynamic range reduction, and image-based lighting* Includes a DVD with over 4 GB of HDR images as well as source code and binaries for numerous tone reproduction operators for Windows, Linux, and Mac OS X

Shooting a High-Dynamic Range (HDR) Time-Lapse Video Rich Harrington,2014

Advanced High Dynamic Range Imaging Francesco Banterle,Alessandro Artusi,Kurt Debattista,Alan Chalmers,2017-07-28 This book explores the methods needed for creating and manipulating HDR content. HDR is a step change from traditional imaging; more closely matching what we see with our eyes. In the years since the first edition of this book appeared, HDR has become much more widespread, moving from a research concept to a standard imaging method. This new edition incorporates all the many developments in HDR since the first edition and once again emphasizes practical tips, including the authors' popular HDR Toolbox (available on the authors' website) for MATLAB and gives readers the tools they need to develop and experiment with new techniques for creating compelling HDR content. Key Features: Contains the HDR Toolbox

for readers' experimentation on authors' website Offers an up-to-date, detailed guide to the theory and practice of high dynamic range imaging Covers all aspects of the field, from capture to display Provides benchmarks for evaluating HDR imagery

High Dynamic Range (HDR) Video Compression and Distribution Junaid Mir,2017

A Visual Attention Model for High Dynamic Range (HDR) Video Content Yuanyuan Dong,2015

The Design and Implementation of High Dynamic Range Video Systems Salvador García Bernal,2015

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.

The high dynamic range imaging pipeline Gabriel Eilertsen,2018-05-15 Techniques for high dynamic range (HDR) imaging make it possible to capture and store an increased range of luminances and colors as compared to what can be achieved with a conventional camera. This high amount of image information can be used in a wide range of applications, such as HDR displays, image-based lighting, tone-mapping, computer vision, and post-processing operations. HDR imaging has been an important concept in research and development for many years. Within the last couple of years it has also reached the consumer market, e.g. with TV displays that are capable of reproducing an increased dynamic range and peak luminance. This thesis presents a set of technical contributions within the field of HDR imaging. First, the area of HDR video tone-mapping is thoroughly reviewed, evaluated and developed upon. A subjective comparison experiment of existing methods is performed, followed by the development of novel techniques that overcome many of the problems evidenced by the evaluation. Second, a largescale objective comparison is presented, which evaluates existing techniques that are involved in HDR video distribution. From the results, a first open-source HDR video codec solution, Luma HDRv, is built using the best performing techniques. Third, a machine learning method is proposed for the purpose of reconstructing an HDR image from one single-exposure low dynamic range (LDR) image. The method is trained on a large set of HDR images, using recent advances in deep learning, and the results increase the quality and performance significantly as compared to existing

algorithms. The areas for which contributions are presented can be closely inter-linked in the HDR imaging pipeline. Here, the thesis work helps in promoting efficient and high-quality HDR video distribution and display, as well as robust HDR image reconstruction from a single conventional LDR image.

Time-Lapse Video: High-Dynamic Range (HDR), 2014 Take a trip to Zion National Park to shoot an HDR time-lapse video, compliments of Rich Harrington and the crew at RHED Pixel. Watch as they show how to capture the sun as it moves across a rock face in this historic park and then enhance the natural beauty of the time-lapse sequence with dramatic HDR development and toning techniques. Along the way, Rich explains what gear you'll need to capture the scene and protect your camera from the elements, and how to set up your camera to shoot JPEG or RAW, create an in-camera HDR sequence, and add finishing touches in post-production programs like Photomatix Pro, After Effects, and Camera Raw. This course was created and produced by RHED Pixel. We are honored to host this content in our library.

Design and Evaluation of Backward Compatible High Dynamic Range Video Compression, 2006 Abstract: In this report we describe the details of the backward compatible high dynamic range (HDR) video compression algorithm. The algorithm is designed to facilitate a smooth transition from standard low dynamic range (LDR) video to high fidelity high dynamic range content. The HDR and the corresponding LDR video frames are decorrelated and then compressed into a single MPEG stream, which can be played on both existing DVD players and HDR-enabled devices.

1986 IEEE MTT-S International Microwave Symposium Digest, 1986

The High Dynamic Range Imaging Pipeline Gabriel Eilertsen, 2018 Techniques for high dynamic range (HDR) imaging make it possible to capture and store an increased range of luminances and colors as compared to what can be achieved with a conventional camera. This high amount of image information can be used in a wide range of applications, such as HDR displays, image-based lighting, tone-mapping, computer vision, and post-processing operations. HDR imaging has been an important concept in research and development for many years. Within the last couple of years it has also reached the consumer market, e.g. with TV displays that are capable of reproducing an increased dynamic range and peak luminance. This thesis presents a set of technical contributions within the field of HDR imaging. First, the area of HDR video tone-mapping is thoroughly reviewed, evaluated and developed upon. A subjective comparison experiment of existing methods is performed, followed by the development of novel techniques that overcome many of the problems evidenced by the evaluation. Second, a largescale objective comparison is presented, which evaluates existing techniques that are involved in HDR video distribution. From the results, a first open-source HDR video codec solution, Luma HDRv, is built using the best performing techniques. Third, a machine learning method is proposed for the purpose of reconstructing an HDR image from one single-exposure low dynamic range (LDR) image. The method is trained on a large set of HDR images, using recent advances in deep learning, and the results increase the quality and performance significantly as compared to existing

algorithms. The areas for which contributions are presented can be closely inter-linked in the HDR imaging pipeline. Here, the thesis work helps in promoting efficient and high-quality HDR video distribution and display, as well as robust HDR image reconstruction from a single conventional LDR image.

No-reference Video Quality Assessment Joshua Peter Ebenezer, 2023 Video content continues to proliferate, already accounting for more than 70% of internet traffic, and projected to exceed 82% of internet traffic by 2021. Distortions can affect videos as they are captured, transmitted, and received. It is of vital importance to providers of video content to be able to monitor and predict the perceptual quality of their videos, since this directly impacts customer satisfaction. Video quality tools can also help make well-informed design choices while creating systems for capturing, processing, transmitting, and displaying videos. Video quality assessment algorithms also have applications in video denoising, designing loss functions for deep learning, video compression, and many other high-impact areas. Measuring the quality of a video without a reference is referred to as No-Reference Video Quality Assessment (NR VQA). NR VQA has many modalities, one of which is its application to livestreamed videos, which can have defects at the source that need to be identified quickly and accurately before they reach consumers. Sports content has a great deal of motion, due to which additional perceptual effects come into play such as motion blur and poorer compression due to rapidly changing motion estimates. In this dissertation, we propose an NR VQA algorithm called ChipQA that achieves remarkable performance on Sports VQA databases. ChipQA introduces the concept of space-time chips, which are small oriented slices of the video in space and time. Another modality of NR VQA is its application to High Dynamic Range (HDR) videos. Dynamic range is the ratio of the largest and smallest usable values of a signal. In the context of video, it is the luminance range over which a video system can capture, store, and display scenes without loss of details. HDR videos have a greater range of brightnesses and colors than traditional Standard Dynamic Range videos. Distortions can be more apparent in HDR due to its increased contrast and details. We designed an extension of ChipQA, called HDR ChipQA, that incorporates special nonlinearities that enhance the extreme ends of the luminance range in order to highlight distortions. We also conducted a large-scale study of human perceptual quality judgments of HDR and SDR videos subjected to scaling and compression levels and viewed on three different display devices. While conventional expectations are that HDR quality is better than SDR quality, we have found subject preference of HDR versus SDR depends heavily on the display device, as well as on resolution scaling and bitrate. To study this question, we collected more than 23,000 quality ratings from 67 volunteers who watched 356 videos on OLED, QLED, and LCD televisions. Since it is of interest to be able to measure the quality of videos under these scenarios, e.g. to inform decisions regarding scaling, compression, and SDR vs HDR, we tested several well-known full-reference and no-reference video quality models on the new database. Towards advancing progress on this problem, we also developed a novel no-reference model called HDRPatchMAX, that uses both classical and bit-depth sensitive distortion statistics more accurately than existing metrics

Vision, Modeling, and Visualization ,2003

Real-time Algorithms for High Dynamic Range Video Benjamin Guthier,2012

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