### 3D VIDEO PLAYER 1.7.1

MICHAEL STEFANO FRITZ SCHAFFNER

- EMERGING TECHNOLOGIES FOR 3D VIDEO FREDERIC DUFAUX, BE ATRICE PESQUET-POPESCU, MARCO CAGNAZZO, 2013-04-22 WITH THE EXPECTATION OF GREATLY ENHANCED USER EXPERIENCE, 3D VIDEO IS WIDELY PERCEIVED AS THE NEXT MAJOR ADVANCEMENT IN VIDEO TECHNOLOGY. IN ORDER TO FULFIL THE EXPECTATION OF ENHANCED USER EXPERIENCE, 3D VIDEO CALLS FOR NEW TECHNOLOGIES ADDRESSING EFFICIENT CONTENT CREATION, REPRESENTATION/CODING, TRANSMISSION AND DISPLAY. EMERGING TECHNOLOGIES FOR 3D VIDEO WILL DEAL WITH ALL ASPECTS INVOLVED IN 3D VIDEO SYSTEMS AND SERVICES, INCLUDING CONTENT ACQUISITION AND CREATION, DATA REPRESENTATION AND CODING, TRANSMISSION, VIEW SYNTHESIS, RENDERING, DISPLAY TECHNOLOGIES, HUMAN PERCEPTION OF DEPTH AND QUALITY ASSESSMENT. KEY FEATURES: OFFERS AN OVERVIEW OF KEY EXISTING TECHNOLOGIES FOR 3D VIDEO PROVIDES A DISCUSSION OF ADVANCED RESEARCH TOPICS AND FUTURE TECHNOLOGIES REVIEWS RELEVANT STANDARDIZATION EFFORTS ADDRESSES APPLICATIONS AND IMPLEMENTATION ISSUES INCLUDES CONTRIBUTIONS FROM LEADING RESEARCHERS THE BOOK IS A COMPREHENSIVE GUIDE TO 3D VIDEO SYSTEMS AND SERVICES SUITABLE FOR ALL THOSE INVOLVED IN THIS FIELD, INCLUDING ENGINEERS, PRACTITIONERS, RESEARCHERS AS WELL AS PROFESSORS, GRADUATE AND UNDERGRADUATE STUDENTS, AND MANAGERS MAKING TECHNOLOGICAL DECISIONS ABOUT 3D VIDEO.
- D Video and Its Applications Takashi Matsuyama, Shohei Nobuhara, Takeshi Takai, Tony Tung, 2012-05-31 This book presents a broad review of state-of-the-art 3D video production technologies and applications. The text opens with a concise introduction to the field, before examining the design and calibration methods for multi-view camera systems, including practical implementation technologies. A range of algorithms are then described for producing 3D video from video data. A selection of 3D video applications are also demonstrated. Features: describes real-time synchronized multi-view video capture, and object tracking with a group of active cameras; discusses geometric and photometric camera calibration, and 3D video studio design with active cameras; examines 3D shape and motion reconstruction, texture mapping and image rendering, and lighting environment estimation; demonstrates attractive 3D visualization, visual contents analysis and editing, 3D body action analysis, and data compression; highlights the remaining challenges and the exciting avenues for future research in 3D video technology.
- Denote Making Bernard Mendiburu, 2009 Hollywood is going 3D, readers learn how to adapt their

PRODUCTION SKILLS TO THIS HOT NEW MEDIUM SO THEY CAN BE PART OF THE MOVEMENT.

☑ ☑D VIDEO LAURENT LUCAS, C? LINE LOSCOS, YANNICK R? MION, 2013-12-04 WHILE 3D VISION HAS EXISTED FOR MANY YEARS, THE USE OF 3D CAMERAS AND VIDEO-BASED MODELING BY THE FILM INDUSTRY HAS INDUCED AN EXPLOSION OF INTEREST FOR 3D ACQUISITION TECHNOLOGY, 3D CONTENT AND 3D DISPLAYS. AS SUCH, 3D VIDEO HAS BECOME ONE OF THE NEW TECHNOLOGY TRENDS OF THIS CENTURY. THE CHAPTERS IN THIS BOOK COVER A LARGE SPECTRUM OF AREAS CONNECTED TO 3D VIDEO, WHICH ARE PRESENTED BOTH THEORETICALLY AND TECHNOLOGICALLY, WHILE TAKING INTO ACCOUNT BOTH PHYSIOLOGICAL AND PERCEPTUAL ASPECTS. STEPPING AWAY FROM TRADITIONAL 3D VISION, THE AUTHORS, ALL CURRENTLY INVOLVED IN THESE AREAS, PROVIDE THE NECESSARY ELEMENTS FOR UNDERSTANDING THE UNDERLYING COMPUTER-BASED SCIENCE OF THESE TECHNOLOGIES. THEY CONSIDER APPLICATIONS AND PERSPECTIVES PREVIOUSLY UNEXPLORED DUE TO TECHNOLOGICAL LIMITATIONS. THIS BOOK GUIDES THE READER THROUGH THE PRODUCTION PROCESS OF 3D VIDEOS; FROM ACQUISITION, THROUGH DATA TREATMENT AND REPRESENTATION, TO 3D DIFFUSION. SEVERAL TYPES OF CAMERA SYSTEMS ARE CONSIDERED (MULTISCOPIC OR MULTIVIEW) WHICH LEAD TO DIFFERENT ACQUISITION, MODELING AND STORAGE-RENDERING SOLUTIONS. THE APPLICATION OF THESE SYSTEMS IS ALSO DISCUSSED TO ILLUSTRATE VARYING PERFORMANCE BENEFITS, MAKING THIS BOOK SUITABLE FOR STUDENTS, ACADEMICS, AND ALSO THOSE INVOLVED IN THE FILM INDUSTRY.

Diver Schreer, Peter Kauff, Thomas Sikora, 2005-11-01 The migration of immersive media towards telecommunication applications is advancing rapidly. Impressive progress in the field of media compression, media representation, and the larger and ever increasing bandwidth available to the customer, will foster the introduction of these services in the future. One of the key components for the envisioned applications is the development from two-dimensional towards three-dimensional audio-visual communications. With contributions from key experts in the field, 3D videocommunication: provides a complete overview of existing systems and technologies in 3D video communications and provides guidance on future trends and research; considers all aspects of the 3D videocommunication processing chain including video coding, signal processing and computer graphics; focuses on the current state-of-the-art and highlights the directions in which the technology is likely to move; discusses in detail the relevance of 3D videocommunication for telepresence systems and immersive media; and provides an exhaustive bibliography for further reading. Researchers and students interested in the field of 3D audio-visual communications will find 3D

VIDEOCOMMUNICATION A VALUABLE RESOURCE, COVERING A BROAD OVERVIEW OF THE CURRENT STATE-OF-THE-ART. PRACTICAL ENGINEERS FROM INDUSTRY WILL ALSO FIND IT A USEFUL TOOL IN ENVISIONING AND BUILDING INNOVATIVE APPLICATIONS.

Novel 3D Media Technologies Ahmet Kondoz, Tasos Dagiuklas, 2014-11-14 This book describes recent INNOVATIONS IN 3D MEDIA AND TECHNOLOGIES, WITH COVERAGE OF 3D MEDIA CAPTURING, PROCESSING, ENCODING, AND ADAPTATION, NETWORKING ASPECTS FOR 3D MEDIA, AND QUALITY OF USER EXPERIENCE (QOE). THE CONTRIBUTIONS ARE BASED ON THE RESULTS OF THE FP7 EUROPEAN PROJECT ROMEO, WHICH FOCUSES ON NEW METHODS FOR THE COMPRESSION AND DELIVERY OF 3D MULTI-VIEW VIDEO AND SPATIAL AUDIO, AS WELL AS THE OPTIMIZATION OF NETWORKING AND COMPRESSION JOINTLY ACROSS THE FUTURE INTERNET. THE DELIVERY OF 3D MEDIA TO INDIVIDUAL USERS REMAINS A HIGHLY CHALLENGING PROBLEM DUE TO THE LARGE AMOUNT OF DATA INVOLVED, DIVERSE NETWORK CHARACTERISTICS AND USER TERMINAL REQUIREMENTS, AS WELL AS THE USER'S CONTEXT SUCH AS THEIR PREFERENCES AND LOCATION. AS THE NUMBER OF VISUAL VIEWS INCREASES, CURRENT SYSTEMS WILL STRUGGLE TO MEET THE DEMANDING REQUIREMENTS IN TERMS OF DELIVERY OF CONSISTENT VIDEO QUALITY TO FIXED AND MOBILE USERS, ROMEO WILL PRESENT HYBRID NETWORKING SOLUTIONS THAT COMBINE THE DVB-T2 AND DVB-NGH BROADCAST ACCESS NETWORK TECHNOLOGIES TOGETHER WITH A QOE AWARE PEER-TO-PEER (P2P) DISTRIBUTION SYSTEM THAT OPERATES OVER WIRED AND WIRELESS LINKS. LIVE STREAMING 3D MEDIA NEEDS TO BE RECEIVED BY COLLABORATING USERS AT THE SAME TIME OR WITH IMPERCEPTIBLE DELAY TO ENABLE THEM TO WATCH TOGETHER WHILE EXCHANGING COMMENTS AS IF THEY WERE ALL IN THE SAME LOCATION. THIS BOOK IS THE SECOND OF A SERIES OF THREE ANNUAL VOLUMES DEVOTED TO THE LATEST RESULTS OF THE FP7 EUROPEAN PROJECT ROMEO. THE PRESENT VOLUME PROVIDES STATE-OF-THE-ART INFORMATION ON IMMERSIVE MEDIA, 3D MULTI-VIEW VIDEO, SPATIAL AUDIO, CLOUD-BASED MEDIA, NETWORKING PROTOCOLS FOR 3D MEDIA, P2P 3D MEDIA STREAMING, AND 3D MEDIA DELIVERY ACROSS HETEROGENEOUS WIRELESS NETWORKS AMONG OTHER TOPICS. GRADUATE STUDENTS AND PROFESSIONALS IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE WITH AN INTEREST IN 3D FUTURE INTERNET MEDIA WILL FIND THIS VOLUME TO BE ESSENTIAL READING. DESCRIBES THE LATEST INNOVATIONS IN 3D TECHNOLOGIES AND FUTURE INTERNET MEDIA FOCUSES ON RESEARCH TO FACILITATE APPLICATION SCENARIOS SUCH AS SOCIAL TV AND HIGH-QUALITY, REAL-TIME COLLABORATION DISCUSSES QOE FOR 3D REPRESENTS THE LAST OF A SERIES OF THREE VOLUMES DEVOTED TO CONTRIBUTIONS FROM FP7 PROJECTS IN THE AREA OF 3D AND NETWORKED MEDIA

D VISUAL CONTENT CREATION, CODING AND DELIVERY PEDRO AMADO ASSUN PO, ATANAS GOTCHEV, 2018-07-28 THIS BOOK COVERS THE DIFFERENT ASPECTS OF MODERN 3D MULTIMEDIA TECHNOLOGIES BY ADDRESSING SEVERAL ELEMENTS OF 3D VISUAL COMMUNICATIONS SYSTEMS, USING DIVERSE CONTENT FORMATS, SUCH AS STEREO VIDEO, VIDEO-PLUS-DEPTH AND MULTIVIEW, AND CODING SCHEMES FOR DELIVERY OVER NETWORKS. IT ALSO PRESENTS THE LATEST ADVANCES AND RESEARCH RESULTS IN REGARDS TO OBJECTIVE AND SUBJECTIVE QUALITY EVALUATION OF 3D VISUAL CONTENT. EXTENDING THE HUMAN FACTORS AFFECTING THE PERCEPTION OF QUALITY TO EMOTIONAL STATES. THE CONTRIBUTORS DESCRIBE TECHNOLOGICAL DEVELOPMENTS IN 3D VISUAL COMMUNICATIONS, WITH PARTICULAR EMPHASIS ON STATE-OF-THE-ART ADVANCES IN ACQUISITION OF 3D VISUAL SCENES AND EMERGING 3D VISUAL REPRESENTATION FORMATS, SUCH AS: MULTI-VIEW PLUS DEPTH AND LIGHT FIELD; EVOLUTION TO FREEVIEW AND LIGHT-FIELD REPRESENTATION; COMPRESSION METHODS AND ROBUST DELIVERY SYSTEMS; AND CODING AND DELIVERY OVER VARIOUS CHANNELS. SIMULATION TOOLS, TESTBEDS AND DATASETS THAT ARE USEFUL FOR ADVANCED RESEARCH AND EXPERIMENTAL STUDIES IN THE FIELD OF 3D MULTIMEDIA DELIVERY SERVICES AND APPLICATIONS ARE COVERED. THE INTERNATIONAL GROUP OF CONTRIBUTORS ALSO EXPLORE THE RESEARCH PROBLEMS AND CHALLENGES IN THE FIELD OF IMMERSIVE VISUAL COMMUNICATIONS, IN ORDER TO IDENTIFY RESEARCH DIRECTIONS WITH SUBSTANTIAL ECONOMIC AND SOCIAL IMPACT. 3D VISUAL CONTENT CREATION, CODING AND DELIVERY PROVIDES VALUABLE INFORMATION TO ENGINEERS AND COMPUTER SCIENTISTS DEVELOPING NOVEL PRODUCTS AND SERVICES WITH EMERGING 3D MULTIMEDIA TECHNOLOGIES, BY DISCUSSING THE ADVANTAGES AND CURRENT LIMITATIONS THAT NEED TO BE ADDRESSED IN ORDER TO DEVELOP THEIR PRODUCTS FURTHER. IT WILL ALSO BE OF INTEREST TO STUDENTS AND RESEARCHERS IN THE FIELD OF MULTIMEDIA SERVICES AND APPLICATIONS, WHO ARE PARTICULARLY INTERESTED IN ADVANCES BRINGING SIGNIFICANT POTENTIAL IMPACT ON FUTURE TECHNOLOGICAL DEVELOPMENTS.

Discrete the challenge of exploiting its 3D video-specific coding tools for increasing computational complexity and, consequently, the energy consumption. This book enables readers to reduce the multiview video coding energy at the cost of increasing computational complexity and, consequently, the energy consumption. This book enables readers to reduce the multiview video coding energy consumption through jointly considering the algorithmic and architectural levels. Coverage includes an introduction to 3D videos and an extensive

DISCUSSION OF THE CURRENT STATE-OF-THE-ART OF 3D VIDEO CODING, AS WELL AS ENERGY-EFFICIENT ALGORITHMS FOR 3D VIDEO CODING AND ENERGY-EFFICIENT HARDWARE ARCHITECTURE FOR 3D VIDEO CODING.

② ②D-TV System with Depth-Image-Based Rendering Ce Zhu, Yin Zhao, Lu Yu, Masayuki Tanimoto, 2012-08-15 Riding on the success of 3D cinema blockbusters and advances in stereoscopic display technology, 3D video applications have gathered momentum in recent years. 3D-TV System with Depth-Image-Based Rendering:

Architectures, Techniques and Challenges surveys depth-image-based 3D-TV systems, which are expected to be put into applications in the near future. Depth-image-based rendering (DIBR) significantly enhances the 3D visual experience compared to stereoscopic systems currently in use. DIBR techniques make it possible to generate additional viewpoints using 3D warping techniques to adjust the perceived depth of stereoscopic videos and provide for auto-stereoscopic displays that do not require glasses for viewing the 3D image. The material includes a technical review and literature survey of components and complete systems, solutions for technical issues, and implementation of prototypes. The book is organized into four sections: System Overview, Content Generation, Data Compression and Transmission, and 3D visualization and Quality Assessment. This book will benefit researchers, developers, engineers, and innovators, as well as advanced undergraduate and graduate students working in relevant areas.

② D Video Laurent Lucas, Celine Loscos, Yannick Remion, 2013 While 3D vision has existed for many years, the use of 3D cameras and video-based modeling by the film industry has induced an explosion of interest for 3D acquisition technology, 3D content and 3D displays. As such, 3D video has become one of the new technology trends of this century. The chapters in this book cover a large spectrum of areas connected to 3D video, which are presented both theoretically and technologically, while taking into account both physiological and perceptual aspects. Stepping away from traditional 3D vision, the authors, all currently involved in these areas, provide the necessary elements for understanding the underlying computer-based science of these technologies. They consider applications and perspectives previously unexplored due to technological limitations. This book guides the reader through the production process of 3D videos; from acquisition, through data treatment and representation, to 3D diffusion. Several types of camera systems are considered (multiscopic or multiview) which lead to different acquisition, modeling and storage-rendering solutions. The

APPLICATION OF THESE SYSTEMS IS ALSO DISCUSSED TO ILLUSTRATE VARYING PERFORMANCE BENEFITS, MAKING THIS BOOK SUITABLE FOR STUDENTS, ACADEMICS, AND ALSO THOSE INVOLVED IN THE FILM INDUSTRY.

- [7] [3D FUTURE INTERNET MEDIA AHMET KONDOZ, TASOS DAGIUKLAS, 2013-11-12 THIS BOOK DESCRIBES RECENT INNOVATIONS IN 3D MEDIA AND TECHNOLOGIES, WITH COVERAGE OF 3D MEDIA CAPTURING, PROCESSING, ENCODING, AND ADAPTATION, NETWORKING ASPECTS FOR 3D MEDIA, AND QUALITY OF USER EXPERIENCE (QOE). THE MAIN CONTRIBUTIONS ARE BASED ON THE RESULTS OF THE FP7 EUROPEAN PROJECTS ROMEO, WHICH FOCUS ON NEW METHODS FOR THE COMPRESSION AND DELIVERY OF 3D MULTI-VIEW VIDEO AND SPATIAL AUDIO, AS WELL AS THE OPTIMIZATION OF NETWORKING AND COMPRESSION JOINTLY ACROSS THE FUTURE INTERNET (WWW.ICT-ROMEO.EU). THE DELIVERY OF 3D MEDIA TO INDIVIDUAL USERS REMAINS A HIGHLY CHALLENGING PROBLEM DUE TO THE LARGE AMOUNT OF DATA INVOLVED. DIVERSE NETWORK CHARACTERISTICS AND USER TERMINAL REQUIREMENTS, AS WELL AS THE USER'S CONTEXT SUCH AS THEIR PREFERENCES AND LOCATION. AS THE NUMBER OF VISUAL VIEWS INCREASES, CURRENT SYSTEMS WILL STRUGGLE TO MEET THE DEMANDING REQUIREMENTS IN TERMS OF DELIVERY OF CONSTANT VIDEO QUALITY TO BOTH FIXED AND MOBILE USERS. ROMEO WILL DESIGN AND DEVELOP HYBRID-NETWORKING SOLUTIONS THAT COMBINE THE DVB-T2 AND DVB-NGH BROADCAST ACCESS NETWORK TECHNOLOGIES TOGETHER WITH A QOE AWARE PEER-TO-PEER (P2P) DISTRIBUTION SYSTEM THAT OPERATES OVER WIRED AND WIRELESS LINKS. LIVE STREAMING 3D MEDIA NEEDS TO BE RECEIVED BY COLLABORATING USERS AT THE SAME TIME OR WITH IMPERCEPTIBLE DELAY TO ENABLE THEM TO WATCH TOGETHER WHILE EXCHANGING COMMENTS AS IF THEY WERE ALL IN THE SAME LOCATION. THE VOLUME PROVIDES STATE-OF-THE-ART INFORMATION ON 3D MULTI-VIEW VIDEO, SPATIAL AUDIO NETWORKING PROTOCOLS FOR 3D MEDIA, P2P 3D MEDIA STREAMING, AND 3D MEDIA DELIVERY ACROSS HETEROGENEOUS WIRELESS NETWORKS AMONG OTHER TOPICS. GRADUATE STUDENTS AND PROFESSIONALS IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE WITH AN INTEREST IN 3D FUTURE INTERNET MEDIA WILL FIND THIS VOLUME TO BE ESSENTIAL READING.
- D VIDEO TECHNOLOGIES LEVENT ONURAL, 2011 PROVIDES A BROAD OVERVIEW OF RESEARCH TRENDS IN 3D VIDEO AND RELATED TECHNOLOGIES. THE TEXT WAS DEVELOPED TO MEET THE NEEDS OF A NON-TECHNICAL READER GROUP WHO NEED TO UNDERSTAND THE ISSUES, CONCERNS, AND TECHNICAL PROBLEMS AND THEIR CURRENTLY PROPOSED SO
- [2] [2]D TV and 3D Cinema Bernard Mendiburu, Yves Pupulin, Steve Schklair, 2011 Hollywood is going 3D; readers learn how to adapt their cinematography and production skills to this hot new medium so they can be part of the movement.

- Denote Making Bernard Mendiburu, 2012 Hollywood is going 3D, read this book to understand why and how, and to secure your next job on a 3D movie. Making a 3D movie is much more than shooting with a 3D camera and showing it in a 3D theater. Each and every step of the movie production cycle will be affected by 3D, just like sound and color affected the whole industry. After an introduction on how the human brain perceive depth, this book explains, in a step-by-step approach, how 3D affects screen writing, art direction, principal photography, editing, visual effects and even movies distribution. It's a must read for anyone in the profession who wants to understand the next revolution in cinema. The DVD is not included with the E-book. Please contact the publisher for access to the DVD content by emailing d.mcgonagle<sup>4</sup>telsevier.com.
- D Motion Graphics for 2D Artists Bill Byrne, 2012 Provides lessons and tutorials covering the essentials of building and compositing 3D elements in 2D work.
- PRESENTED VLSI ARCHITECTURES FOR REAL-TIME AND 3D VIDEO PROCESSING MICHAEL STEFANO FRITZ SCHAFFNER, 2018-10-24 MULTIVIEW AUTOSTEREOSCOPIC DISPLAYS (MADS) MAKE IT POSSIBLE TO VIEW VIDEO CONTENT IN 3D WITHOUT WEARING SPECIAL GLASSES, AND SUCH DISPLAYS HAVE RECENTLY BECOME AVAILABLE. THE MAIN PROBLEM OF MADS IS THAT THEY REQUIRE SEVERAL (TYPICALLY 8 OR 9) VIEWS, WHILE MOST OF THE 3D VIDEO CONTENT IS IN STEREOSCOPIC 3D TODAY. TO BRIDGE THIS CONTENT-DISPLAY GAP, THE RESEARCH COMMUNITY STARTED TO DEVISE AUTOMATIC MULTIVIEW SYNTHESIS (MVS) METHODS. COMMON MVS METHODS ARE BASED ON DEPTH-IMAGE-BASED RENDERING. WHERE A DENSE DEPTH MAP OF THE SCENE IS USED TO REPROJECT THE IMAGE TO NEW VIEWPOINTS. ALTHOUGH PHYSICALLY CORRECT, THIS APPROACH REQUIRES ACCURATE DEPTH MAPS AND ADDITIONAL INPAINTING STEPS. OUR WORK USES AN ALTERNATIVE CONVERSION CONCEPT BASED ON IMAGE DOMAIN WARPING (IDW) WHICH HAS BEEN SUCCESSFULLY APPLIED TO RELATED PROBLEMS SUCH AS ASPECT RATIO RETARGETING FOR STREAMING VIDEO, AND DISPATRITY REMAPPING FOR DEPTH ADJUSTMENTS IN STEREOSCOPIC 3D CONTENT. IDW SHOWS PROMISING PERFORMANCE IN THIS CONTEXT AS IT ONLY REQUIRES ROBUST, SPARSE POINT- CORRESPONDENCES AND NO INPAINTING STEPS. HOWEVER, MVS, USING IDW AS WELL AS ALTERNATIVE APPROACHES, IS COMPUTATIONALLY DEMANDING AND REQUIRES REALTIME PROCESSING - YET SUCH METHODS SHOULD BE PORTABLE TO END-USER AND EVEN MOBILE DEVICES TO DEVELOP THEIR FULL POTENTIAL. TO THIS END, THIS THESIS INVESTIGATES FEFICIENT AI GORITHMS AND HARDWARE ARCHITECTURES FOR A VARIETY OF SUBPROBLEMS ARISING IN THE MVS PIPELINE.

- FI THE FUTURE OF 3D MEDIA KEITH FREDERICKS, 2011-09-01 WHY IS GLASSES-BASED 3D ONE OF THE BIGGEST ALL TIME FAILURES IN THE HISTORY OF CONSUMER ELECTRONICS? HOW DOES STEREOSCOPIC 3D GET TO CONSUMERS? WHAT IS COMING NEXT IN 3D? WHERE WILL THE CONTENT COME FROM AND HOW WILL IT BE DELIVERED? MOST PEOPLE HAVE SEEN AT LEAST ONE MODERN 3D MOVIE SUCH AS AVATAR. BUT 3D IS PUSHING INTO OUR LIVES NOW IN THE FORM OF 3DTVS, MOBILE PHONES, TABLETS AND EVEN 3D VIDEOS AND PHOTOS ON THE WEB. WHEN WE LEAVE THE THEATER WE MOVE INTO AN UNCONTROLLED ENVIRONMENT WHERE PEOPLE MULTI-TASK...AN ENVIRONMENT WHERE 3D GLASSES SIMPLY DON'T WORK. THIS BOOK INTRODUCES STEREOSCOPIC 3D TO EARLY-ADOPTERS, BUSINESS PEOPLE, CONTENT PRODUCERS, BROADCASTERS AND ALL OTHERS CURIOUS ABOUT THE HISTORY AND FUTURE OF 3D AND THEN CONFRONTS SOME OF THE MOST DIFFICULT ISSUES FACING THE 3D INDUSTRY TODAY. THE TRADE-OFF AND THE SOLUTION CURRENT 3DTV DISPLAY TECHNOLOGY PRESENTS A CLASSIC TRADE-OFF BETWEEN FIDELITY AND CONVENIENCE. THE CURRENT GLASSES-BASED SYSTEMS PRESENT HIGH-FIDELITY AND THE DESIRED GLASSES-FREE TECHNOLOGIES AFFORD CONVENIENCE. THE EARLY 3DTV PROPONENTS, HAVE BET ON 2 CHANNEL, GLASSES-BASED STEREOSCOPIC TVS. IN A WORLD WHERE WE ACCEPT LOW-QUALITY MP3 AUDIO (APPLE'S ITUNES, IPOD, AND IPHONE) AND LOW-QUALITY VIDEO CONFERENCING (SKYPE), ONE CAN MAKE A STRONG CASE THAT GLASSES-FREE (AUTOSTEREOSCOPIC) 3D DISPLAY SYSTEMS ARE GOOD ENOUGH, THAT IS, CONVENIENT. MOST CONSUMER ELECTRONICS COMPANIES HAVE NOT CONSIDERED THE OVERALL USABILITY OR CONVENIENCE ASPECTS OF THE 3D DISPLAY SYSTEM, BUT ONLY THE VIDEO QUALITY ASPECTS. THIS IS A MISTAKE IN AN ENVIRONMENT OF DISRUPTIVE INNOVATION. IN THE FUTURE OF 3D MEDIA, WE EXAMINE THE CONDITIONS WHICH CREATE A COMPELLING NEW OPPORTUNITY TO BENEFIT FROM BRINGING STEREOSCOPIC 3D TO CONSUMERS.
- Decided by Moviemaking Bernard Mendiburu, 2013-07-01 Hollywood is going 3D, read this book to understand why and how, and to secure your next job on a 3D movie. Making a 3D movie is much more than shooting with a 3D camera and showing it in a 3D theater. Each and every step of the movie production cycle will be affected by 3D, just like sound and color affected the whole industry. After an introduction on how the human brain perceive depth, this book explains, in a step-by-step approach, how 3D affects screen writing, art direction, principal photography, editing, visual effects and even movies distribution. It's a must read for anyone in the profession who wants to understand the next revolution in cinema.
- DIGITAL VIDEO AND TELEVISION IOANNIS PITAS, 2013 THIS BOOK IS THE MOST UP-TO-DATE INTRODUCTION TO DIGITAL VIDEO AND TELEVISION. IT IS VERY SUITABLE TO UNIVERSITY/COLLEGE/ARTS STUDENTS AND VIDEO ENTHUSIASTS, BY

PROVIDING AN ACCURATE PRESENTATION, WITHOUT TOO MANY MATHEMATICAL/TECHNICAL DETAILS. IT COVERS ALL TECHNOLOGIES RELATED TO VIDEO SHOOTING/ACQUISITION, EDITING, COMPRESSION, OPTICAL STORAGE, BROADCASTING AND DISPLAY. TO THIS END, VARIOUS VIDEO COMPRESSION METHODS (MPEG-2, MPEG-4, HEVC) AND BROADCASTING SYSTEMS (ATSC, DVB, DTMB, ISDB) ARE OVERVIEWED. NOVEL TRENDS IN VIDEO STREAMING, WEBCASTING AND MOBILE VIDEO ARE PRESENTED. AN OVERVIEW OF THE LATEST TRENDS IN PRODUCTION, POST-PRODUCTION AND VISUAL EFFECTS IS PRESENTED FOR MOVIE AND TV CONTENT CREATION. HUMAN PERCEPTION OF VIDEO AND QUALITY ENHANCEMENT THROUGH VIDEO PROCESSING ARE DETAILED. VIDEO ANALYSIS, DESCRIPTION AND ARCHIVING FOR FAST VIDEO SEARCH ARE OVERVIEWED. FINALLY, NOVEL TRENDS IN 3DTV AND DIGITAL CINEMA ARE PRESENTED.

[2] VIDEO PARSING AND CAMERA POSE ESTIMATION FOR 2D TO 3D VIDEO CONVERSION TIANRUI LIU, 2017-01-26

UNVEILING THE ENERGY OF VERBAL ART: AN PSYCHOLOGICAL SOJOURN THROUGH 3D VIDEO PLAYER 1.7.1

In some sort of inundated with screens and the cacophony of instantaneous interaction, the profound power and mental resonance of verbal artistry frequently diminish in to obscurity, eclipsed by the regular assault of sound and distractions. However, set within the lyrical pages of 3D Video Player 1.7.1, a interesting work of fictional splendor that pulses with natural thoughts, lies an unique trip waiting to be embarked upon. Written with a virtuoso wordsmith, this mesmerizing opus instructions readers on an emotional odyssey, gently revealing the latent potential and profound affect stuck within the complex internet of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is key subjects, dissect their captivating writing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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## 3D VIDEO PLAYER 1.7.1 INTRODUCTION

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