



Three-Dimensional Television, Video, and Display Technologies

Editors: B. Javidi, F. Okano



Springer

Three Dimensional Television Video And Display Technologies

Daniel Minoli



Three Dimensional Television Video And Display Technologies:

Three-Dimensional Television, Video, and Display Technologies Bahram Javidi, Fumio Okano, 2002-08-15 The first monograph on this rapidly evolving area of research and development this book presents both the theory and applications of new advances in 3D TV and display techniques The theoretical concepts are illustrated by applied examples numerical simulations and experimental results Three-Dimensional Television H.M. Ozaktas, Levent Onural, 2007-11-13 Advances in optical technology and computing power are bringing life like 3DTV closer with potential applications not only in entertainment but also in education scientific research industry medicine and many other areas 3DTV will require the integration of a diversity of key technologies from computing to graphics imaging to display and signal processing to communications The scope of this book reflects this diversity different chapters deal with different stages of an end to end 3DTV system such as capture representation coding transmission and display Both autostereoscopic techniques which eliminate the need for special glasses and allow viewer movement and holographic approaches which have the potential to provide the truest three dimensional images are covered Some chapters discuss current research trends in 3DTV technology while others address underlying topics This book is essential to those with an interest in 3DTV related research or applications and also of interest to those who while not directly working on 3DTV work in areas which developments in 3DTV may touch such as multimedia computer games virtual reality medical imaging and scientific simulation

Three-dimensional TV, Video, and Display Bahram Javidi, Fumio Okano, 2002 *3D Television (3DTV) Technology, Systems, and Deployment* Daniel Minoli, 2010-11-17 Going beyond the technological building blocks of 3DTV 3D Television 3DTV Technology Systems and Deployment Rolling Out the Infrastructure for Next Generation Entertainment offers an early view of the deployment and rollout strategies of this emerging technology It covers cutting edge advances theories and techniques in end to end 3DTV systems to provide a system level view of the topic and what it takes to make this concept a commercial reality The book reflects the full range of questions being posed about post production 3D mastering delivery options and home screens It reviews fundamental visual concepts supporting stereographic perception of 3DTV and considers the various stages of a 3DTV system including capture representation coding transmission and display Presents new advances in 3DTV and display techniques Includes a 24 page color insert Identifies standardization activities critical to broad deployment Examines a different stage of an end to end 3DTV system in each chapter Considers the technical details related to 3DTV including compression and transmission technologies Discussing theory and application the text covers both stereoscopic and autostereoscopic techniques the latter eliminating the need for special glasses and allowing for viewer movement It also examines emerging holographic approaches which have the potential to provide the truest three dimensional images The book contains the results of a survey of a number of advocacy groups to provide a clear picture of the current state of the industry research trends future directions and underlying topics *3D Videocommunication* Oliver

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

Three-Dimensional Imaging, Visualization, and Display Bahram Javidi, Fumio Okano, Jung-Young Son, 2010-07-15 Here is an up to date examination of recent developments in 3D imaging as well as coverage of the prospects and challenges facing 3D moving picture systems and devices including binocular multi view holographic and image reproduction techniques

Designing EEG Experiments for Studying the Brain Aamir Saeed Malik, Hafeez Ullah Amin, 2017-05-25 Designing EEG Experiments for Studying the Brain Design Code and Example Datasets details the design of various brain experiments using electroencephalogram EEG Providing guidelines for designing an EEG experiment it is primarily for researchers who want to venture into this field by designing their own experiments as well as those who are excited about neuroscience and want to explore various applications related to the brain The first chapter describes how to design an EEG experiment and details the various parameters that should be considered for success while remaining chapters provide experiment design for a number of neurological applications both clinical and behavioral As each chapter is accompanied with experiment design codes and example datasets those interested can quickly design their own experiments or use the current design for their own purposes Helpful appendices provide various forms for one s experiment including recruitment forms feedback forms ethics forms and recommendations for related hardware equipment and software for data acquisition processing and analysis Written to assist neuroscientists in experiment designs using EEG Presents a step by step approach to designing both clinical and behavioral EEG experiments Includes experiment design codes and example datasets Provides inclusion and exclusion criteria to help correctly identify experiment subjects and the minimum number of samples Includes appendices that provide recruitment forms ethics forms and various subjective tests associated with each of the chapters **Optical Imaging**

Sensors and Systems for Homeland Security Applications Bahram Javidi, 2006-05-16 Optical and photonic systems and

devices have significant potential for homeland security Optical Imaging Sensors and Systems for Homeland Security Applications presents original and significant technical contributions from leaders of industry government and academia in the field of optical and photonic sensors systems and devices for detection identification prevention sensing security verification and anti counterfeiting The chapters have recent and technically significant results ample illustrations figures and key references This book is intended for engineers and scientists in the relevant fields graduate students industry managers university professors government managers and policy makers

Handbook of Research on Advanced Concepts in Real-Time Image and Video Processing Anwar, Md. Imtiyaz, Khosla, Arun, Kapoor, Rajiv, 2017-07-13

Technological advancements have created novel applications for image and video processing With these developments real world processing problems can be solved more easily The Handbook of Research on Advanced Concepts in Real Time Image and Video Processing is a pivotal reference source for the latest research findings on the design realization and deployment of image and video processing systems meant for real time environments Featuring extensive coverage on relevant areas such as feature detection reconfigurable computing and stream processing this publication is an ideal resource for academics researchers graduate students and technology developers

Progress in Optics, 2015-06-14 The Progress in Optics series contains more than 300 review articles by distinguished research workers which have become permanent records for many important developments helping optical scientists and optical engineers stay abreast of their fields Comprehensive in depth reviews Edited by the leading authority in the field

The Image Processing Handbook John C. Russ, F. Brent Neal, 2018-09-03 Consistently rated as the best overall introduction to computer based image processing The Image Processing Handbook covers two dimensional 2D and three dimensional 3D imaging techniques image printing and storage methods image processing algorithms image and feature measurement quantitative image measurement analysis and more Incorporating image processing and analysis examples at all scales from nano to astro this Seventh Edition Features a greater range of computationally intensive algorithms than previous versions Provides better organization more quantitative results and new material on recent developments Includes completely rewritten chapters on 3D imaging and a thoroughly revamped chapter on statistical analysis Contains more than 1700 references to theory methods and applications in a wide variety of disciplines Presents 500 entirely new figures and images with more than two thirds appearing in color The Image Processing Handbook Seventh Edition delivers an accessible and up to date treatment of image processing offering broad coverage and comparison of algorithms approaches and outcomes

Novel 3D Media Technologies Ahmet Kondo, 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

Multimedia Networking and Coding Farrugia, Reuben A., Debono, Carl J., 2012-12-31 Advances in multimedia communication systems have enhanced the need for improved video coding standards Due to the inherent nature of video content large bandwidths and reliable communication links are required to ensure a satisfactory level of quality experience inspiring industry and research communities to concentrate their efforts in this emerging research area Multimedia Networking and Coding covers widespread knowledge and research as well as innovative applications in multimedia communication systems This book highlights recent techniques that can evolve into future multimedia communication systems also showing experimental results from systems and applications

3D Visual Content Creation, Coding and Delivery Pedro Amado Assunção, 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 **3DTV** Anil Fernando, Stewart T. Worrall, Erhan Ekmekcioğlu, 2013-08-05 A novel and timely primer to the 3DTV system chain from capture to display This book examines all aspects of the 3DTV chain from capture to display It helps the reader learn about the key issues for 3DTV technology It also provides with a systems level appreciation of 3DTV systems and an understanding of the fundamental principles behind each part of the chain At the end of each chapter the author provides resources where readers can learn more about the technology covered e g more focused text books key journal papers and key standards contributions Provides a fundamental and systematic introduction and description of 3DTV key techniques which build up the whole 3DTV system from capture to consumer viewing at the home Addresses the quick moving field of 3D displays which is attracting increasing interest from industry and academia Concepts in the book will be illustrated using diagrams and example images of processed 3D content The 3D content will be presented as 2D images in the book Authors to host website providing pointers to more information on the web freely available tools which would enable readers to experiment with coding video simulate its transmission over networks play it back in 3D and measure the quality and links to important news and developments in the field 3D-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 Research

Anthology on Recent Trends, Tools, and Implications of Computer Programming Management Association, Information Resources, 2020-08-03 Programming has become a significant part of connecting theoretical development and scientific application computation Computer programs and processes that take into account the goals and needs of the user meet with the greatest success so it behooves software engineers to consider the human element inherent in every line of code they write Research Anthology on Recent Trends Tools and Implications of Computer Programming is a vital reference source that examines the latest scholarly material on trends techniques and uses of various programming applications and examines the benefits and challenges of these computational developments Highlighting a range of topics such as coding standards software engineering and computer systems development this multi volume book is ideally designed for programmers computer scientists software developers analysts security experts IoT software programmers computer and software engineers students professionals and researchers

Optical and Digital Techniques for Information Security Bahram Javidi, 2005-06-28 There are wide ranging implications in information security beyond national defense Securing our information has implications for virtually all aspects of our lives including protecting the privacy of our financial transactions and medical records facilitating all operations of government maintaining the integrity of national borders securing important facilities ensuring the safety of our food and commercial products protecting the safety of our aviation system even safeguarding the integrity of our very identity against theft Information security is a vital element in all of these activities particularly as information collection and distribution become ever more connected through electronic information delivery systems and commerce This book encompasses results of research investigation and technologies that can be used to secure protect verify and authenticate objects and information from theft counterfeiting and manipulation by unauthorized persons and agencies The book has drawn on the diverse expertise in optical sciences and engineering digital image processing imaging systems information processing mathematical algorithms quantum optics computer based information systems sensors detectors and biometrics to report novel technologies that can be applied to information security issues The book is unique because it has diverse contributions from the field of optics which is a new emerging technology for security and digital techniques that are very accessible and can be interfaced with optics to produce highly effective security systems

True Three-dimensional Imaging Techniques and Display Technologies David F. McAllister, Woodrow E. Robbins, 1987

HCI International 2011 Posters' Extended Abstracts Constantine Stephanidis, 2011-06-24 This two volume set CCIS 173 and CCIS 174 constitutes the extended abstracts of the posters presented during the 14th International Conference on Human Computer Interaction HCII 2011 held in Orlando FL USA in July 2011 jointly with 12 other thematically similar conferences A total of 4039 contributions was submitted to HCII 2011 of which 232 poster papers were carefully reviewed and selected for presentation as extended abstracts in the two volumes

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