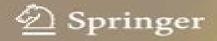Aggelos Katsaggelos

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Joint Source–Channel Video Transmission

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The Structure and Properties of Color Spaces and the Representation of Color Images Eric Dubois,2022-05-31 This lecture describes the author s approach to the representation of color spaces and their use for color image processing The lecture starts with a precise formulation of the space of physical stimuli light The model includes both continuous spectra and monochromatic spectra in the form of Dirac deltas The spectral densities are considered to be functions of a continuous wavelength variable This leads into the formulation of color space as a three dimensional vector space with all the associated structure The approach is to start with the axioms of color matching for normal human viewers often called Grassmann s laws and developing the resulting vector space formulation However once the essential defining element of this vector space is identified it can be extended to other color spaces perhaps for different creatures and devices and dimensions other than three The CIE spaces are presented as main examples of color spaces Many properties of the color space are examined Once the vector space formulation is established various useful decompositions of the space can be established The first such decomposition is based on luminance a measure of the relative brightness of a color This leads to a direct sum decomposition of color space where a two dimensional subspace identifies the chromatic attribute and a third coordinate provides the luminance A different decomposition involving a projective space of chromaticity classes is then presented Finally it is shown how the three types of color deficiencies present in some groups of humans leads to a direct sum decomposition of three one dimensional subspaces that are associated with the three types of cone photoreceptors in the human retina Next a few specific linear and nonlinear color representations are presented The color spaces of two digital cameras are also described Then the issue of transformations between different color spaces is addressed Finally these ideas are applied to signal and system theory for color images This is done using a vector signal approach where a general linear system is represented by a three by three system matrix The formulation is applied to both continuous and discrete space images and specific problems in color filter array sampling and displays are presented for illustration The book is mainly targeted to researchers and graduate students in fields of signal processing related to any aspect of color imaging

Wavelet Image Compression William Pearlman,2022-05-31 This book explains the stages necessary to create a wavelet compression system for images and describes state of the art systems used in image compression standards and current research It starts with a high level discussion of the properties of the wavelet transform especially the decomposition into multi resolution subbands It continues with an exposition of the null zone uniform quantization used in most subband coding systems and the optimal allocation of bitrate to the different subbands Then the image compression systems of the FBI Fingerprint Compression Standard and the JPEG2000 Standard are described in detail Following that the set partitioning coders SPECK and SPIHT and EZW are explained in detail and compared via a fictitious wavelet transform in actions and number of bits coded in a single pass in the top bit plane The presentation teaches that besides producing efficient

compression these coding systems except for the FBI Standard are capable of writing bit streams that have attributes of rate scalability resolution scalability and random access decoding Many diagrams and tables accompany the text to aid understanding The book is generous in pointing out references and resources to help the reader who wishes to expand his knowledge know the origins of the methods or find resources for running the various algorithms or building his own coding system Table of Contents Introduction Characteristics of the Wavelet Transform Generic Wavelet based Coding Systems The FBI Fingerprint Image Compression Standard Set Partition Embedded Block SPECK Coding Tree based Wavelet Transform Coding Systems Rate Control for Embedded Block Coders Conclusion **Image Fusion in Remote Sensing** Arian Azarang,Nasser Kehtarnavaz,2021-02-24 Image fusion in remote sensing or pansharpening involves fusing spatial panchromatic and spectral multispectral images that are captured by different sensors on satellites This book addresses image fusion approaches for remote sensing applications Both conventional and deep learning approaches are covered First the conventional approaches to image fusion in remote sensing are discussed These approaches include component substitution multi resolution and model based algorithms Then the recently developed deep learning approaches involving single objective and multi objective loss functions are discussed Experimental results are provided comparing conventional and deep learning approaches in terms of both low resolution and full resolution objective metrics that are commonly used in remote sensing The book is concluded by stating anticipated future trends in pansharpening or image fusion in remote sensing *Virtual Reality and Virtual Environments in 10 Lectures* Stanislav Stanković,2022-06-01 The book is based on the material originally developed for the course on Virtual Reality which the author was teaching at Tampere University of Technology as well as course on Virtual Environments that the author had prepared for the University for Advancing Studies at Tempe Arizona This original purpose has influenced the structure of this book as well as the depth to which we explore the presented concepts Therefore our intention in this book is to give an introduction into the important issues regarding a series of related concepts of Virtual Reality Augmented Reality and Virtual Environments We do not attempt to go into any of these issues in depth but rather outline general principles and discuss them in a sense broad enough to provide sufficient foundations for a further study In other words we aim to provide a set of keywords to the reader in order give him a good starting point from which he could go on and explore any of these issues in detail Table of Contents Preface Acknowledgments Lecture 1 Introduction Lecture 2 History of VR and Current Applications Lecture 3 Human Senses Lecture 4 VR Systems Lecture 5 User Experience Human Computer Interaction and UI Lecture 6 Input Devices and Tracking Lecture 7 Displays Lecture 8 Networked VR Lecture 9 Augmented Reality Lecture 10 VE and Video Games Bibliography Author s Biography Index *Handbook of Image and Video Processing* Alan C. Bovik,2010-07-21 55% new material in the latest edition of this must have for students and practitioners of image video processing This Handbook is intended to serve as the basic reference point on image and video processing in the field in the research laboratory and in the classroom Each

chapter has been written by carefully selected distinguished experts specializing in that topic and carefully reviewed by the Editor Al Bovik ensuring that the greatest depth of understanding be communicated to the reader Coverage includes introductory intermediate and advanced topics and as such this book serves equally well as classroom textbook as reference resource Provides practicing engineers and students with a highly accessible resource for learning and using image video processing theory and algorithms Includes a new chapter on image processing education which should prove invaluable for those developing or modifying their curricula Covers the various image and video processing standards that exist and are emerging driving today s explosive industry Offers an understanding of what images are how they are modeled and gives an introduction to how they are perceived Introduces the necessary practical background to allow engineering students to acquire and process their own digital image or video data Culminates with a diverse set of applications chapters covered in sufficient depth to serve as extensible models to the reader s own potential applications About the Editor Al Bovik is the Cullen Trust for Higher Education Endowed Professor at The University of Texas at Austin where he is the Director of the Laboratory for Image and Video Engineering LIVE He has published over 400 technical articles in the general area of image and video processing and holds two U S patents Dr Bovik was Distinguished Lecturer of the IEEE Signal Processing Society 2000 received the IEEE Signal Processing Society Meritorious Service Award 1998 the IEEE Third Millennium Medal 2000 and twice was a two time Honorable Mention winner of the international Pattern Recognition Society Award He is a Fellow of the IEEE was Editor in Chief of the IEEE Transactions on Image Processing 1996 2002 has served on and continues to serve on many other professional boards and panels and was the Founding General Chairman of the IEEE International Conference on Image Processing which was held in Austin Texas in 1994 No other resource for image and video processing contains the same breadth of up to date coverage Each chapter written by one or several of the top experts working in that area Includes all essential mathematics techniques and algorithms for every type of image and video processing used by electrical engineers computer scientists internet developers bioengineers and scientists in various image intensive disciplines

Combating Bad Weather Part I Sudipta Mukhopadhyay,Abhishek Kumar Tripathi,2022-06-01 Current vision systems are designed to perform in normal weather condition However no one can escape from severe weather conditions Bad weather reduces scene contrast and visibility which results in degradation in the performance of various computer vision algorithms such as object tracking segmentation and recognition Thus current vision systems must include some mechanisms that enable them to perform up to the mark in bad weather conditions such as rain and fog Rain causes the spatial and temporal intensity variations in images or video frames These intensity changes are due to the random distribution and high velocities of the raindrops Fog causes low contrast and whiteness in the image and leads to a shift in the color This book has studied rain and fog from the perspective of vision The book has two main goals 1 removal of rain from videos captured by a moving and static camera 2 removal of the fog from images and videos captured by a moving single uncalibrated camera

system The book begins with a literature survey Pros and cons of the selected prior art algorithms are described and a general framework for the development of an efficient rain removal algorithm is explored Temporal and spatiotemporal properties of rain pixels are analyzed and using these properties two rain removal algorithms for the videos captured by a static camera are developed For the removal of rain temporal and spatiotemporal algorithms require fewer numbers of consecutive frames which reduces buffer size and delay These algorithms do not assume the shape size and velocity of raindrops which make it robust to different rain conditions i e heavy rain light rain and moderate rain In a practical situation there is no ground truth available for rain video Thus no reference quality metric is very useful in measuring the efficacy of the rain removal algorithms Temporal variance and spatiotemporal variance are presented in this book as no reference quality metrics An efficient rain removal algorithm using meteorological properties of rain is developed The relation among the orientation of the raindrops wind velocity and terminal velocity is established This relation is used in the estimation of shape based features of the raindrop Meteorological property based features helped to discriminate the rain and non rain pixels Most of the prior art algorithms are designed for the videos captured by a static camera The use of global motion compensation with all rain removal algorithms designed for videos captured by static camera results in better accuracy for videos captured by moving camera Qualitative and quantitative results confirm that probabilistic temporal spatiotemporal and meteorological algorithms outperformed other prior art algorithms in terms of the perceptual quality buffer size execution delay and system cost The work presented in this book can find wide application in entertainment industries transportation tracking and consumer electronics Table of Contents Acknowledgments Introduction Analysis of Rain Dataset and Performance Metrics Important Rain Detection Algorithms Probabilistic Approach for Detection and Removal of Rain Impact of Camera Motion on Detection of Rain Meteorological Approach for Detection and Removal of Rain from Videos Conclusion and Scope of Future Work Bibliography Authors Biographies **Proceedings** ,2005 Joint Source-Channel Video Transmission Fan Zhai,Aggelos Katsaggelos,2007-06-01 This book deals with the problem of joint source channel video transmission i e the joint optimal allocation of resources at the application layer and the other network layers such as data rate adaptation channel coding power adaptation in wireless networks quality of service QoS support from the network and packet scheduling for efficient video transmission Real time video communication applications such as videoconferencing video telephony and on demand video streaming have gained increased popularity However a key problem in video transmission over the existing Internet and wireless networks is the incompatibility between the nature of the network conditions and the QoS requirements in terms for example of bandwidth delay and packet loss of real time video applications To deal with this incompatibility a natural approach is to adapt the end system to the network The joint source channel coding approach aims to efficiently perform content aware cross layer resource allocation thus increasing the communication efficiency of multiple network layers Our purpose in this book is to review the basic elements of the state of the art

approaches toward joint source channel video transmission for wired and wireless systems In this book we present a general resource distortion optimization framework which is used throughout the book to guide our discussions on various techniques of joint source channel video transmission In this framework network resources from multiple layers are assigned to each video packet according to its level of importance It provides not only an optimization benchmark against which the performance of other sub optimal systems can be evaluated but also a useful tool for assessing the effectiveness of different error control components in practical system design This book is therefore written to be accessible to researchers expert industrial R D engineers and university students who are interested in the cutting edge technologies in joint source channel video transmission Contents Introduction Elements of a Video Communication System Joint Source Channel Coding Error Resilient Video Coding Channel Modeling and Channel Coding Internet Video Transmission Wireless Video Transmission Conclusions   Conference Proceedings ,2004   **Journal of Zhejiang University** ,2006   **Dissertation Abstracts International** ,2004   **Joint Source-Channel Video Transmission : Image, Video & Multimedia Processing** Fan Zhai,2007   Conference Record ,1998   **International Aerospace Abstracts** ,1992   **Joint Source Channel Coding for Image Transmission Over Noisy Channels** Maria Fresia,Università degli studi di Genova. : Dipartimento di informatica, sistemistica e telematica,2006   title code to delete, was - Joint Source-Channel Video Transmission Aggelos Katsaggelos,2007   **On Hierarchical Joint Source-channel Coding** Yossef Steinberg,Neri Merhav,Ṭekhniyon, Makhon ṭekhnologi le-Yiśra'el. Department of Electrical Engineering,Ṭekhniyon, Makhon ṭekhnologi le-Yiśra'el. Fakultah le-handasat hashmal. Merkaz le-tekhnologyot tikshoret u-meda,Irwin and Joan Jacobs Center for Communication and Information Technologies,2003   **On Joint Source-channel Coding for the Wyner-Ziv Source and the Gel'fand-Pinsker Channel** Neri Merhav,Shlomo Shamai,Ṭekhniyon, Makhon ṭekhnologi le-Yiśra'el. Department of Electrical Engineering,Ṭekhniyon, Makhon ṭekhnologi le-Yiśra'el. Fakultah le-handasat hashmal. Merkaz le-tekhnologyot tikshoret u-meda,Irwin and Joan Jacobs Center for Communication and Information Technologies,2002   **Optimal Joint Source-channel Coding** Bin-Chang Chieu,1989   *Joint Source-channel Decoding and Unequal Error Protection Aided Video Transmission* Chuan Zhu,2016

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In some sort of inundated with displays and the cacophony of fast communication, the profound energy and emotional resonance of verbal beauty usually disappear into obscurity, eclipsed by the continuous onslaught of sound and distractions. However, nestled within the lyrical pages of **Joint Source Channel Transmission Aggelos Katsaggelos**, a charming work of literary elegance that impulses with natural thoughts, lies an wonderful trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this magical opus manuals visitors on an emotional odyssey, lightly exposing the latent possible and profound affect stuck within the elaborate internet of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is key styles, dissect its charming publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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