



Rate-Distortion Based Video Compression

*Optimal Video Frame Compression
and Object Boundary Encoding*

Guido M. Schuster
Aggelos K. Katsaggelos

Springer Science+Business Media, B.V.

Rate Distortion Based Video Compression

Yi-Jen Chiu



Rate Distortion Based Video Compression:

Rate-Distortion Based Video Compression Guido M. Schuster, Aggelos Katsaggelos, 2013-03-09 One of the most intriguing problems in video processing is the removal of the redundancy or the compression of a video signal There are a large number of applications which depend on video compression Data compression represents the enabling technology behind the multimedia and digital television revolution In motion compensated lossy video compression the original video sequence is first split into three new sources of information segmentation motion and residual error These three information sources are then quantized leading to a reduced rate for their representation but also to a distorted reconstructed video sequence After the decomposition of the original source into segmentation motion and residual error information is decided the key remaining problem is the allocation of the available bits into these three sources of information In this monograph a theory is developed which provides a solution to this fundamental bit allocation problem It can be applied to all quad tree based motion compensated video coders which use a first order differential pulse code modulation DPCM scheme for the encoding of the displacement vector field DVF and a block based transform scheme for the encoding of the displaced frame difference DFD An optimal motion estimator which results in the smallest DFD energy for a given bit rate for the encoding of the DVF is also a result of this theory Such a motion estimator is used to formulate a motion compensated interpolation scheme which incorporates a global smoothness constraint for the DVF

Intelligent Multimedia Processing with Soft Computing

Yap Peng Tan, Kim-Hui Yap, Lipo Wang, 2006-09-15 Soft computing represents a collection of techniques such as neural networks evolutionary computation fuzzy logic and probabilistic reasoning As posed to conventional hard computing these techniques tolerate imprecision and uncertainty similar to human beings In the recent years successful applications of these powerful methods have been published in many disciplines in numerous journals conferences as well as the excellent books in this book series on Studies in Fuzziness and Soft Computing This volume is dedicated to recent novel applications of soft computing in multimedia processing The book is composed of 21 chapters written by experts in their respective fields addressing various important and timely problems in multimedia computing such as content analysis indexing and retrieval recognition and compression processing and filtering etc In the chapter authored by Guan Muneesawang Lay Amin and Lee a radial basis function network with Laplacian mixture model is employed to perform image and video retrieval D Androutsos P Androutsos Plataniotis and Venetsanopoulos investigate color image indexing and retrieval within a small world framework Wu and Yap develop a framework of fuzzy relevance feedback to model the uncertainty of users subjective perception in image retrieval

Rate Distortion Bounds for Voice and Video

Jerry D. Gibson, Jing Hu, 2014-02 This volume presents the first Rate Distortion Bounds for Voice and Video that actually lower bound the operational rate distortion performance of the best performing voice and video codecs

Computer Vision - ECCV 2020 Andrea Vedaldi, Horst Bischof, Thomas Brox, Jan-Michael Frahm, 2020-11-03 The 30 volume set comprising the LNCS books 12346 until 12375 constitutes the

refereed proceedings of the 16th European Conference on Computer Vision ECCV 2020 which was planned to be held in Glasgow UK during August 23 28 2020 The conference was held virtually due to the COVID 19 pandemic The 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions The papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation

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

Rate-distortion Based Vector Quantization Technique and H.264/AVC Video Coding Standard for Video Compression [1], 2007 Perceptual Facsimile-based Video Compression Yi-Jen Chiu, 1996 Rate-distortion Based Rate-control Methods for Scalable Video Sharadha Parthasarathy, 2002 **Handbook of Energy-Aware and Green Computing, Volume 2** Ishfaq Ahmad, Sanjay Ranka, 2013-01-31 This book provides basic and fundamental knowledge of various aspects of energy aware computing at the component software and system level It provides a broad range of topics dealing with power energy and temperature related research areas for individuals from industry and academia

Multidisciplinary Research Area in Arts, Science & Commerce (Volume-16) Chief Editor- Biplab Auddya, Editor- Dr. Prashant Balwantrao Thakare, Dr. Savita Atul Itkarkar, Aparna M, Dr. Challoyu Jyothsna, Dilip I Sangotra, Anchal Yadav, 2026-02-25 *Multimedia Systems and Applications*, 2005 *From Theory to Practice*, 1998 **1999**

International Conference on Image Processing : Proceedings, 1999 **Index to IEEE Publications** Institute of Electrical and Electronics Engineers, 1998 Issues for 1973 cover the entire IEEE technical literature **Rate-distortion Based Adaptive Distributed Video Coding** Wei-Jung Chien, 2009 *Visual Communications and Image Processing*, 1999 **Proceedings**, 2003 *Conference Proceedings*, 2004 **RLE Progress Report** Massachusetts Institute of

Technology. Research Laboratory of Electronics,1999

Wavelet Applications ,1999

Unveiling the Magic of Words: A Review of "**Rate Distortion Based Video Compression**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Rate Distortion Based Video Compression**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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