

Zhou Wang · Alan C. Bovik *Editors*

Modern Image Quality Assessment

Modern Image Quality Assessment Synthesis Lectures On Image Video Multimedia Processing

Mahmoud Hassaballah



Modern Image Quality Assessment Synthesis Lectures On Image Video Multimedia Processing:

Modern Image Quality Assessment Zhou Wang, Alan C. Bovik, 2006-12-01 This Lecture book is about objective image quality assessment where the aim is to provide computational models that can automatically predict perceptual image quality. The early years of the 21st century have witnessed a tremendous growth in the use of digital images as a means for representing and communicating information. A considerable percentage of this literature is devoted to methods for improving the appearance of images or for maintaining the appearance of images that are processed. Nevertheless, the quality of digital images processed or otherwise is rarely perfect. Images are subject to distortions during acquisition, compression, transmission, processing, and reproduction. To maintain control and enhance the quality of images, it is important for image acquisition, management, communication, and processing systems to be able to identify and quantify image quality degradations. The goals of this book are as follows: a) to introduce the fundamentals of image quality assessment and to explain the relevant engineering problems; b) to give a broad treatment of the current state of the art in image quality assessment by describing leading algorithms that address these engineering problems; and c) to provide new directions for future research by introducing recent models and paradigms that significantly differ from those used in the past. The book is written to be accessible to university students curious about the state of the art of image quality assessment, expert industrial R D engineers seeking to implement image video quality assessment systems for specific applications, and academic theorists interested in developing new algorithms for image quality assessment or using existing algorithms to design or optimize other image processing applications.

Visual Quality Assessment for Natural and Medical Image Yong Ding, 2018-03-14 Image quality assessment (IQA) is an essential technique in the design of modern large scale image and video processing systems. This book introduces and discusses in detail topics related to IQA, including the basic principles of subjective and objective experiments, biological evidence for image quality perception, and recent research developments. In line with recent trends in imaging techniques and to explain the application specific utilization, it particularly focuses on IQA for stereoscopic 3D images and medical images rather than on planar 2D natural images. In addition, a wealth of vivid specific figures and formulas help readers deepen their understanding of fundamental and new applications for image quality assessment technology. This book is suitable for researchers, clinicians, and engineers, as well as students working in related disciplines, including imaging, displaying, image processing, and storage and transmission. By reviewing and presenting the latest advances and new trends and challenges in the field, it benefits researchers and industrial R D engineers seeking to implement image quality assessment systems for specific applications or design/optimize image video processing algorithms.

Visual Quality Assessment And Enhancement For Natural Images Surya Prakash, Piyush Joshi, 2025-07-29 Digital images play a significant role in representing useful information; however, they may get distorted while passing through several operational stages such as image acquisition, compression, transmission, processing, and reconstruction. Similarly, during the

transmission of images some data may be lost and the quality of the image may degrade due to bandwidth limitation The use of distorted images in any application compromises its performance and therefore the identification and quantification of degradation become key issues to address in restoring the distorted images This book covers different quality assessment techniques for natural images It further discusses image enhancement techniques that are based on estimated quality This book presents image quality assessment techniques for different distortions such as poor contrast poor illumination noise and artifacts in deblocked images Also presented are quality aware techniques for image enhancement for different distortions Review and objective questions with answers for each chapter will be available online as part of the supplementary material

, *Digital Media Steganography* Mahmoud Hassaballah, 2020-06-27 The common use of the Internet and cloud services in transmission of large amounts of data over open networks and insecure channels exposes that private and secret data to serious situations Ensuring the information transmission over the Internet is safe and secure has become crucial consequently information security has become one of the most important issues of human communities because of increased data transmission over social networks *Digital Media Steganography Principles Algorithms and Advances* covers fundamental theories and algorithms for practical design while providing a comprehensive overview of the most advanced methodologies and modern techniques in the field of steganography The topics covered present a collection of high quality research works written in a simple manner by world renowned leaders in the field dealing with specific research problems It presents the state of the art as well as the most recent trends in digital media steganography Covers fundamental theories and algorithms for practical design which form the basis of modern digital media steganography Provides new theoretical breakthroughs and a number of modern techniques in steganography Presents the latest advances in digital media steganography such as using deep learning and artificial neural network as well as Quantum Steganography *Computer Analysis of Images and Patterns* Ainhoa Berciano, Daniel Díaz-Pernil, Pedro Real, Walter Kropatsch, Helena Molina-Abril, 2011-08-19 The two volume set LNCS 6854 6855 constitutes the refereed proceedings of the International Conference on Computer Analysis of Images and Patterns CAIP 2011 which took place in Seville Spain August 29 31 2011 The 138 papers presented together with 2 invited talks were carefully reviewed and selected from 286 submissions The papers are organized in topical section on motion analysis image and shape models segmentation and grouping shape recovery kernel methods medical imaging structural pattern recognition Biometrics image and video processing calibration and tracking and stereo vision

Advanced Video Coding Systems Wen Gao, Siwei Ma, 2015-01-15 This book presents an overview of the state of the art in video coding technology Specifically it introduces the tools of the AVS2 standard describing how AVS2 can help to achieve a significant improvement in coding efficiency for future video networks and applications by incorporating smarter coding tools such as scene video coding Features introduces the basic concepts in video coding and presents a short history of video coding technology and standards reviews the coding framework main coding tools and syntax structure of AVS2 describes

the key technologies used in the AVS2 standard including prediction coding transform coding entropy coding and loop filters examines efficient tools for scene video coding and surveillance video and the details of a promising intelligent video coding system discusses optimization technologies in video coding systems provides a review of image video and 3D content quality assessment algorithms surveys the hot research topics in video compression Computer Vision Hongbin Zha,Xilin Chen,Liang Wang,Qiguang Miao,2015-09-18 The two volumes CCIS 546 and 547 constitute the refereed proceedings of the CCF Chinese Conference on Computer Vision CCCV 2015 held in Xi an China in September 2015 The total of 89 revised full papers presented in both volumes were carefully reviewed and selected from 176 submissions The papers address issues such as computer vision machine learning pattern recognition target recognition object detection target tracking image segmentation image restoration face recognition image classification Computational Neuroscience for Perceptual Quality Assessment Guangtao Zhai,Vinit Jakhetiya,Ke Gu,Lu Zhang,Xiongkuo Min,2022-04-20 **Proceedings of 3rd International Conference on Advanced Computing, Networking and Informatics** Atulya Nagar,Durga Prasad Mohapatra,Nabendu Chaki,2015-10-07 Advanced Computing Networking and Informatics are three distinct and mutually exclusive disciplines of knowledge with no apparent sharing overlap among them However their convergence is observed in many real world applications including cyber security internet banking healthcare sensor networks cognitive radio pervasive computing amidst many others This two volume proceedings explore the combined use of Advanced Computing and Informatics in the next generation wireless networks and security signal and image processing ontology and human computer interfaces HCI The two volumes together include 132 scholarly articles which have been accepted for presentation from over 550 submissions in the Third International Conference on Advanced Computing Networking and Informatics 2015 held in Bhubaneswar India during June 23 25 2015 **Engineering Mathematics and Artificial Intelligence** Herb Kunze,Davide La Torre,Adam Riccoboni,Manuel Ruiz Galán,2023-07-26 The fields of Artificial Intelligence AI and Machine Learning ML have grown dramatically in recent years with an increasingly impressive spectrum of successful applications This book represents a key reference for anybody interested in the intersection between mathematics and AI ML and provides an overview of the current research streams Engineering Mathematics and Artificial Intelligence Foundations Methods and Applications discusses the theory behind ML and shows how mathematics can be used in AI The book illustrates how to improve existing algorithms by using advanced mathematics and offers cutting edge AI technologies The book goes on to discuss how ML can support mathematical modeling and how to simulate data by using artificial neural networks Future integration between ML and complex mathematical techniques is also highlighted within the book This book is written for researchers practitioners engineers and AI consultants **Advances in Soft Computing and Machine Learning in Image Processing** Aboul Ella Hassanien,Diego Alberto Oliva,2017-10-13 This book is a collection of the latest applications of methods from soft computing and machine learning in image processing It explores different areas ranging from image

segmentation to the object recognition using complex approaches and includes the theory of the methodologies used to provide an overview of the application of these tools in image processing The material has been compiled from a scientific perspective and the book is primarily intended for undergraduate and postgraduate science engineering and computational mathematics students It can also be used for courses on artificial intelligence advanced image processing and computational intelligence and is a valuable resource for researchers in the evolutionary computation artificial intelligence and image processing communities

Advances in Multimedia Information Processing - PCM 2009 Paisarn Muneesawang, Feng Wu, Itsuo Kumazawa, Athikom Roeksabutr, Hong-Yuan Mark Liao, Xiaou Tang, 2009-11-24 This book constitutes the proceedings of the 10th Pacific Rim Conference on Multimedia held in Bangkok Thailand during December 15 18 2009 The papers presented in the volume were carefully reviewed and selected from 171 submissions The topics covered are exploring large scale videos automatic content genre classification repair enhancement and authentication human behavior classification and recognition image and video coding perceptual quality improvement image annotation retrieval and classification object detection and tracking networking technologies audio processing 3DTV and multiview video image watermarking multimedia document search and retrieval intelligent multimedia security and forensics multimedia content management image analysis and matching coding advanced image processing techniques multimedia compression and optimization multimedia security rights and management

Human-Computer Interaction. User Interface Design, Development and Multimodality Masaaki Kurosu, 2017-06-28 The two volume set LNCS 10271 and 10272 constitutes the refereed proceedings of the 19th International Conference on Human Computer Interaction HCII 2017 held in Vancouver BC Canada in July 2017 The total of 1228 papers presented at the 15 colocated HCII 2017 conferences was carefully reviewed and selected from 4340 submissions The papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems They cover the entire field of Human Computer Interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The papers included in this volume cover the following topics HCI theory and education HCI innovation and technology acceptance interaction design and evaluation methods user interface development methods tools and architectures multimodal interaction and emotions in HCI

Advances in Imaging and Electron Physics, 2010-08-06 Advances in Imaging and Electron Physics merges two long running serials Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy This series features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science and digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains Contributions from leading international scholars and industry experts Discusses hot topic areas and presents current and future research trends Invaluable reference and guide for physicists engineers and mathematicians

Towards the Internet of Services: The

THESEUS Research Program Wolfgang Wahlster, Hans-Joachim Grallert, Stefan Wess, Hermann Friedrich, Thomas Widenka, 2014-09-01 The Internet of Services and the Internet of Things are major building blocks of the Future Internet The digital enterprise of the future is based not only on mobile social and cloud technologies but also on semantic technologies and the future Internet of Everything Semantic technologies now enable mass customization for the delivery of goods and services that meet individual customer needs and tastes with near mass production efficiency and reliability This is creating a competitive advantage in the industrial economy the service economy and the emerging data economy leading to smart products smart services and smart data all adaptable to specific tasks locations situations and contexts of smart spaces Such technologies allow us to describe revise and adapt the characteristics functions processes and usage patterns of customization targets on the basis of machine understandable content representation that enables automated processing and information sharing between human and software agents This book explains the principal achievements of the Theseus research program one of the central programs in the German government's Digital 2015 initiative and its High Tech Strategy 2020 The methods toolsets and standards for semantic technologies developed during this program form a solid basis for the fourth industrial revolution Industrie 4.0 the hybrid service economy and the transformation of big data into useful smart data for the emerging data economy The contributing authors are leading scientists and engineers representing world class academic and industrial research teams and the ideas technologies and representative use cases they describe in the book derive from results in multidisciplinary fields such as the Internet of Services the Semantic Web and semantic technologies knowledge management and search user interfaces multimodal interaction and visualization machine learning and data mining and business process support manufacturing automation medical systems and integrated service engineering The book will be of value to both researchers and practitioners in these domains Web Information Systems and Applications

Long Yuan, Shiyu Yang, Ruixuan Li, Evangelos Kanoulas, Xiang Zhao, 2023-09-08 This book constitutes the proceedings of the 20th International Conference on Web Information Systems and Applications WISA 2023 held in Chengdu China in September 2023 The 43 full papers and 9 short papers presented in this book were carefully reviewed and selected from 213 submissions The papers are grouped in topical sections on Data Mining and Knowledge Discovery Recommender Systems Natural Language Processing Security Privacy and Trust Blockchain Parallel and Distributed Systems and Database for Artificial Intelligence *Advances in Visual Computing*

George Bebis, Richard Boyle, Bahram Parvin, Darko Koracin, Ryan McMahan, Jason Jerald, Hui Zhang, Steven Drucker, Kambhamettu Chandra, El Choubassi Maha, Zhigang Deng, Mark Carlson, 2014-12-02 The two volume set LNCS 8887 and 8888 constitutes the refereed proceedings of the 10th International Symposium on Visual Computing ISVC 2014 held in Las Vegas NV USA The 74 revised full papers and 55 poster papers presented together with 39 special track papers were carefully reviewed and selected from more than 280 submissions The papers are organized in topical sections Part I LNCS 8887 comprises computational bioimaging computer graphics motion

tracking feature extraction and matching segmentation visualization mapping modeling and surface reconstruction
unmanned autonomous systems medical imaging tracking for human activity monitoring intelligent transportation systems
visual perception and robotic systems Part II LNCS 8888 comprises topics such as computational bioimaging recognition
computer vision applications face processing and recognition virtual reality and the poster sessions **Optical Imaging for
Biomedical and Clinical Applications** Ahmad Fadzil Mohamad Hani, Dileep Kumar, 2017-10-30 Optical imaging is a rapidly
emerging imaging technique that has been successfully translated into biomedical applications ranging from clinical
diagnosis to molecular biology This book includes an introductory section to explore various optical imaging devices and their
functionality and roles for biomedical applications such as dermatology and ophthalmology Recent developments as
exemplified with the authors research are explored in detail In depth discussion of other disease conditions and their
diagnosis with optical imaging techniques are also covered *Artificial Intelligence Research and Development* Francisco
Grimaldo, Tommaso Flaminio, 2022-11-15 Artificial intelligence has become an integral part of all our lives Development is
rapid in this exciting and far reaching field and keeping up to date with the latest research and innovation is crucial to all
those working with the technology This book presents the proceedings of the 24th edition of CCIA the International
Conference of the Catalan Association for Artificial Intelligence held in Sitges Spain from 19-21 October 2022 This annual
event serves as a meeting point not only for researchers in AI from the Catalan speaking territories southern France
Catalonia Valencia the Balearic Islands and Alghero in Italy but for researchers from around the world The programme
committee received 59 submissions from which the 26 long papers and 23 short papers selected for presentation at the
conference by the 62 experts who make up the committee are included here The book is divided into the following sections
combinatorial problem solving and logics for artificial intelligence sentiment analysis and text analysis data science
recommender systems and decision support systems machine learning computer vision and explainability and argumentation
This book also includes an abstract of the invited talk given by Prof Fosca Giannotti Providing a comprehensive overview of
research and development this book will be of interest to all those working in the field of Artificial Intelligence

Reviewing **Modern Image Quality Assessment Synthesis Lectures On Image Video Multimedia Processing:** Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Modern Image Quality Assessment Synthesis Lectures On Image Video Multimedia Processing**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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web the geometric distribution is discrete existing only on the nonnegative integers the cumulative distribution function cdf of the geometric distribution is $y = \sum_{k=0}^{x-1} (1-p)^k p$ where p is the probability of success and x is the number of failures before the first success

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web the implementation in matlab is something like this map c cdf norm map c 0 1 which is suppose to be the equalization of the histogram from map c the problem comes at the moment of translating it into c due to the lack of decimals i have

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im = imread('cameraman.tif');
im_hist = imhist(im, 256);
tf = cumsum(im_hist) / sum(im_hist);
tf = tf / tf_max; % normalization
plot(tf, 'norm', 'axis', 'tight');

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web feb 3 2004 cdfplot(x) displays a plot of the empirical cumulative distribution function cdf of the input array x in the current figure. The empirical cdf $y = f(x)$ is defined as the proportion of x values less than or equal to x. If input x is a matrix, then cdfplot(x) parses it to the vector and displays cdf of all values.

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web define the input vector x to contain the values at which to calculate the cdf.
 $x = [2, 1, 0, 1, 2]$
compute the cdf values for the normal distribution with the mean μ equal to 1 and the standard deviation σ equal to 5.
 $\mu = 1$, $\sigma = 5$
 $y = \text{cdf}(\text{normal}(x, \mu, \sigma))$
 $y = [1, 5, 0, 2743, 0, 3446, 0, 4207, 0, 5000, 0, 5793]$

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