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Digital Video Processing 2nd Edition Prentice Hall Signal Processing

Richard C. Dorf



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Digital Video Processing A. Murat Tekalp, 2015-06-15 Thousands of engineering students and professionals have relied on Digital Video Processing as the definitive in depth guide to digital image and video processing technology Now Dr A Murat Tekalp has completely revamped his guide to reflect today's technologies techniques algorithms and trends Digital Video Processing Second Edition reflects important advances in signal processing and computer vision and new applications such as 3D ultra high resolution video and digital cinema This edition offers rigorous comprehensive balanced and quantitative coverage of image filtering motion estimation tracking segmentation video filtering and compression Now organized and presented as a true tutorial it contains updated problem sets and new MATLAB projects in every chapter Coverage includes Multi dimensional signals systems transforms sampling and lattice conversion Digital images and video human vision analog digital video and video quality Image filtering gradient estimation edge detection scaling multi resolution representations enhancement de noising and restoration Motion estimation image formation motion models differential matching optimization methods and transform domain methods and 3D motion and shape estimation Video segmentation color image and motion segmentation change detection shot boundary detection segmentation semantic object segmentation and performance evaluation Multi frame filtering motion compensated filtering multi frame standards conversion noise filtering and restoration and super resolution Image compression lossless compression JPEG wavelets and JPEG2000 Video compression early standards ITU T H 264 MPEG 4 AVC HEVC Scalable Video Compression and stereo multi view approaches

Multidimensional Signal, Image, and Video Processing and Coding John W. Woods, 2011-06-17 This fully revised and expanded edition gives readers the necessary understanding of image and video processing concepts to contribute to this hot technology's future advances Important new topics include introductory random processes image enhancement and analysis and the new MPEG scalable video coding standard Digital Image Processing and Analysis Scott E Umbaugh, 2022-12-30 Digital Image Enhancement Restoration and Compression focuses on human vision based imaging application development Examples include making poor images look better the development of advanced compression algorithms special effects imaging for motion pictures and the restoration of satellite images distorted by atmospheric disturbance This book presents a unique engineering approach to the practice of digital imaging which starts by presenting a global model to help gain an understanding of the overall process followed by a breakdown and explanation of each individual topic Topics are presented as they become necessary for understanding the practical imaging model under study which provides the reader with the motivation to learn about and use the tools and methods being explored The book includes chapters on imaging systems and software the human visual system image transforms image filtering image enhancement image restoration and image compression Numerous examples including over 700 color images are used to illustrate the concepts discussed Readers can explore their own application development with any programming language

including C C MATLAB Python and R and software is provided for both the Windows C C and MATLAB environments The book can be used by the academic community in teaching and research with over 1 000 PowerPoint slides and a complete solutions manual to the over 230 included problems It can also be used for self study by those involved with application development whether they are engineers scientists or artists The new edition has been extensively updated and includes numerous problems and programming exercises that will help the reader and student develop their skills Encyclopedia of Information Science and Technology Mehdi Khosrow-Pour, Mehdi Khosrowpour, 2009 This set of books represents a detailed compendium of authoritative research based entries that define the contemporary state of knowledge on technology Provided by publisher Applied Digital Signal Processing Dimitris G. Manolakis, Vinay K. Ingle, 2011-11-21 Master the basic concepts and methodologies of digital signal processing with this systematic introduction without the need for an extensive mathematical background The authors lead the reader through the fundamental mathematical principles underlying the operation of key signal processing techniques providing simple arguments and cases rather than detailed general proofs Coverage of practical implementation discussion of the limitations of particular methods and plentiful MATLAB illustrations allow readers to better connect theory and practice A focus on algorithms that are of theoretical importance or useful in real world applications ensures that students cover material relevant to engineering practice and equips students and practitioners alike with the basic principles necessary to apply DSP techniques to a variety of applications Chapters include worked examples problems and computer experiments helping students to absorb the material they have just read Lecture slides for all figures and solutions to the numerous problems are available to instructors **Digital Signal Processing** Li Tan, 2007-09-04 This book will enable electrical engineers and technicians in the fields of the biomedical computer and electronics engineering to master the essential fundamentals of DSP principles and practice Coverage includes DSP principles applications and hardware issues with an emphasis on applications Many instructive worked examples are used to illustrate the material and the use of mathematics is minimized for easier grasp of concepts In addition to introducing commercial DSP hardware and software and industry standards that apply to DSP concepts and algorithms topics covered include adaptive filtering with noise reduction and echo cancellations speech compression signal sampling digital filter realizations filter design multimedia applications over sampling etc More advanced topics are also covered such as adaptive filters speech compression such as PCM u law ADPCM and multi rate DSP and over sampling ADC Covers DSP principles and hardware issues with emphasis on applications and many worked examples End of chapter problems are helpful in ensuring retention and understanding of what was just read MATLAB Vasilios Katsikis, 2012-09-26 This excellent book represents the second part of three volumes regarding MATLAB based applications in almost every branch of science The present textbook contains a collection of 13 exceptional articles In particular the book consists of three sections the first one is devoted to electronic engineering and computer science the second is devoted to MATLAB SIMULINK as a tool for

engineering applications the third one is about Telecommunication and communication systems and the last one discusses MATLAB toolboxes

Encyclopedia of Multimedia Technology and Networking Pagani, Margherita, 2005-05-30 This encyclopedia offers a comprehensive knowledge of multimedia information technology from an economic and technological perspective Provided by publisher

The Essential Guide to Video Processing Alan C. Bovik, 2009-07-07 This comprehensive and state of the art approach to video processing gives engineers and students a comprehensive introduction and includes full coverage of key applications wireless video video networks video indexing and retrieval and use of video in speech processing Containing all the essential methods in video processing alongside the latest standards it is a complete resource for the professional engineer researcher and graduate student Numerous conceptual and numerical examples All the latest standards are thoroughly covered MPEG 1 MPEG 2 MPEG 4 H 264 and AVC Coverage of the latest techniques in video security Like its sister volume The Essential Guide to Image Processing Professor Bovik's Essential Guide to Video Processing provides a timely and comprehensive survey with contributions from leading researchers in the area Highly recommended for everyone with an interest in this fascinating and fast moving field Prof Bernd Girod Stanford University USA Edited by a leading person in the field who created the IEEE International Conference on Image Processing with contributions from experts in their fields Numerous conceptual and numerical examples All the latest standards are thoroughly covered MPEG 1 MPEG 2 MPEG 4 H 264 and AVC Coverage of the latest techniques in video security

Circuits, Signals, and Speech and Image Processing Richard C. Dorf, 2018-10-03 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has expanded into a set of six books carefully focused on a specialized area or field of study Each book represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access Circuits Signals and Speech and Image Processing presents all of the basic information related to electric circuits and components analysis of circuits the use of the Laplace transform as well as signal speech and image processing using filters and algorithms It also examines emerging areas such as text to speech synthesis real time processing and embedded signal processing Each article includes defining terms references and sources of further information Encompassing the work of the world's foremost experts in their respective specialties Circuits Signals and Speech and Image Processing features the latest developments the broadest scope of coverage and new material on biometrics

Emerging Technologies in Intelligent Applications for Image and Video Processing Santhi, V., Acharjya, D. P., Ezhilarasan, M., 2016-01-07 Image and Video Processing is an active area of research due to its potential applications for solving real world problems Integrating computational intelligence to analyze and interpret information from image and video technologies is an essential step to processing and applying multimedia data Emerging Technologies in Intelligent Applications for Image and Video Processing presents the most current research

relating to multimedia technologies including video and image restoration and enhancement as well as algorithms used for image and video compression indexing and retrieval processes and security concerns Featuring insight from researchers from around the world this publication is designed for use by engineers IT specialists researchers and graduate level students

Perceptual Digital Imaging Rastislav Lukac, 2017-12-19 Visual perception is a complex process requiring interaction between the receptors in the eye that sense the stimulus and the neural system and the brain that are responsible for communicating and interpreting the sensed visual information This process involves several physical neural and cognitive phenomena whose understanding is essential to design effective and computationally efficient imaging solutions Building on advances in computer vision image and video processing neuroscience and information engineering perceptual digital imaging greatly enhances the capabilities of traditional imaging methods Filling a gap in the literature Perceptual Digital Imaging Methods and Applications comprehensively covers the system design implementation and application aspects of this emerging specialized area It gives readers a strong fundamental understanding of theory and methods providing a foundation on which solutions for many of the most interesting and challenging imaging problems can be built The book features contributions by renowned experts who present the state of the art and recent trends in image acquisition processing storage display and visual quality evaluation They detail advances in the field and explore human visual system driven approaches across a broad spectrum of applications including Image quality and aesthetics assessment Digital camera imaging White balancing and color enhancement Thumbnail generation Image restoration Super resolution imaging Digital halftoning and dithering Color feature extraction Semantic multimedia analysis and processing Video shot characterization Image and video encryption Display quality enhancement This is a valuable resource for readers who want to design and implement more effective solutions for cutting edge digital imaging computer vision and multimedia applications Suitable as a graduate level textbook or stand alone reference for researchers and practitioners it provides a unique overview of an important and rapidly developing research field

Digital Systems and Applications Vojin G. Oklobdzija, 2017-12-19 New design architectures in computer systems have surpassed industry expectations Limits which were once thought of as fundamental have now been broken Digital Systems and Applications details these innovations in systems design as well as cutting edge applications that are emerging to take advantage of the fields increasingly sophisticated capabilities This book features new chapters on parallelizing iterative heuristics stream and wireless processors and lightweight embedded systems This fundamental text Provides a clear focus on computer systems architecture and applications Takes a top level view of system organization before moving on to architectural and organizational concepts such as superscalar and vector processor VLIW architecture as well as new trends in multithreading and multiprocessing includes an entire section dedicated to embedded systems and their applications Discusses topics such as digital signal processing applications circuit implementation aspects parallel I O algorithms and operating systems Concludes with a look at new and future directions in

computing Features articles that describe diverse aspects of computer usage and potentials for use Details implementation and performance enhancing techniques such as branch prediction register renaming and virtual memory Includes a section on new directions in computing and their penetration into many new fields and aspects of our daily lives The Electrical Engineering Handbook, Second Edition Richard C. Dorf, 1997-09-26 In 1993 the first edition of The Electrical Engineering Handbook set a new standard for breadth and depth of coverage in an engineering reference work Now this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today Every electrical engineer should have an opportunity to expand his expertise with this definitive guide In a single volume this handbook provides a complete reference to answer the questions encountered by practicing engineers in industry government or academia This well organized book is divided into 12 major sections that encompass the entire field of electrical engineering including circuits signal processing electronics electromagnetics electrical effects and devices and energy and the emerging trends in the fields of communications digital devices computer engineering systems and biomedical engineering A compendium of physical chemical material and mathematical data completes this comprehensive resource Every major topic is thoroughly covered and every important concept is defined described and illustrated Conceptually challenging but carefully explained articles are equally valuable to the practicing engineer researchers and students A distinguished advisory board and contributors including many of the leading authors professors and researchers in the field today assist noted author and professor Richard Dorf in offering complete coverage of this rapidly expanding field No other single volume available today offers this combination of broad coverage and depth of exploration of the topics The Electrical Engineering Handbook will be an invaluable resource for electrical engineers for years to come **Multimedia Image and Video Processing** Ling Guan, Sun-Yuan Kung, Jan Larsen, 2000-08-23 Multimedia stands as one of the most challenging and exciting aspects of the information era Although there are books available that deal with various facets of multimedia the field has urgently needed a comprehensive look at recent developments in the systems processing and applications of image and video data in a multimedia environment **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 **Image Restoration** Aymeric Histace, 2012-04-04 This book represents a sample of recent contributions of researchers all around the world in the field of image restoration The book consists of 15 chapters organized in three main sections Theory Applications Interdisciplinarity Topics cover some different aspects of the theory of image restoration but this book is also an occasion to highlight some new topics of research related to the emergence of some original imaging devices From this arise some real challenging problems related to image reconstruction restoration that open the way to some new fundamental scientific questions closely related

with the world we interact with **Biomedical Information Technology** David Dagan Feng,2011-07-28 The enormous growth in the field of biotechnology necessitates the utilization of information technology for the management flow and organization of data The field continues to evolve with the development of new applications to fit the needs of the biomedicine From molecular imaging to healthcare knowledge management the storage access and analysis of data contributes significantly to biomedical research and practice All biomedical professionals can benefit from a greater understanding of how data can be efficiently managed and utilized through data compression modelling processing registration visualization communication and large scale biological computing In addition Biomedical Information Technology contains practical integrated clinical applications for disease detection diagnosis surgery therapy and biomedical knowledge discovery including the latest advances in the field such as ubiquitous M Health systems and molecular imaging applications The world s most recognized authorities give their best practices ready for implementation Provides professionals with the most up to date and mission critical tools to evaluate the latest advances in the field and current integrated clinical applications Gives new staff the technological fundamentals and updates experienced professionals with the latest practical integrated clinical applications Handbook of Research on Computational Intelligence for Engineering, Science, and Business Bhattacharyya, Siddhartha,Dutta, Paramartha,2012-11-30 Using the same strategy for the needs of image processing and pattern recognition scientists and researchers have turned to computational intelligence for better research throughputs and end results applied towards engineering science business and financial applications Handbook of Research on Computational Intelligence for Engineering Science and Business discusses the computation intelligence approaches initiatives and applications in the engineering science and business fields This reference aims to highlight computational intelligence as no longer limited to computing related disciplines and can be applied to any effort which handles complex and meaningful information **Feature Extraction & Image Processing** Mark Nixon,2008-01-08 Whilst other books cover a broad range of topics Feature Extraction and Image Processing takes one of the prime targets of applied computer vision feature extraction and uses it to provide an essential guide to the implementation of image processing and computer vision techniques Acting as both a source of reference and a student text the book explains techniques and fundamentals in a clear and concise manner and helps readers to develop working techniques with usable code provided throughout The new edition is updated throughout in line with developments in the field and is revised to focus on mathematical programming in Matlab Essential reading for engineers and students working in this cutting edge field Ideal module text and background reference for courses in image processing and computer vision

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