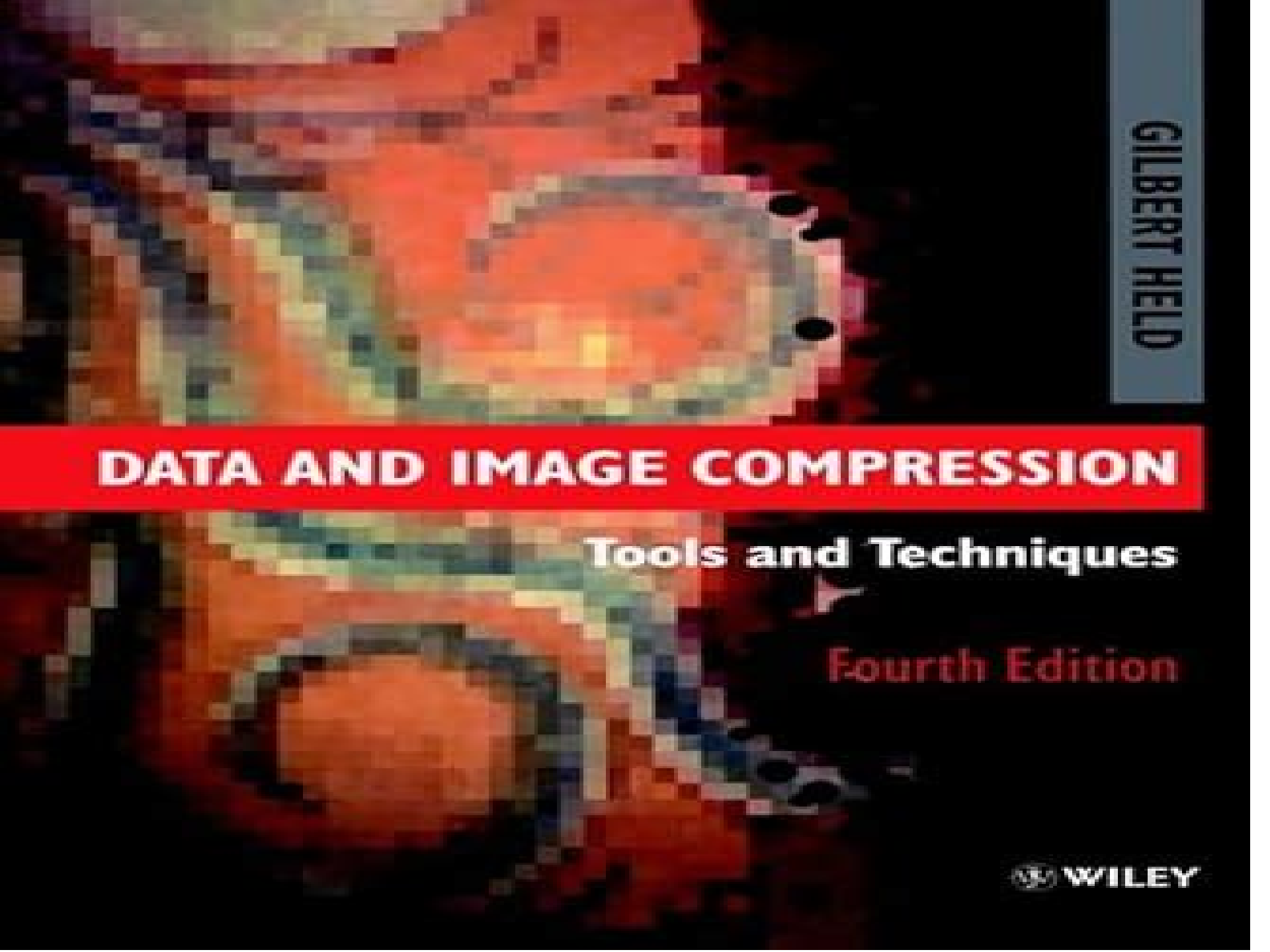




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Gilbert Held



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Data Compression David Salomon, 2004-02-26 A comprehensive reference for the many different types and methods of compression including a detailed and helpful taxonomy an analysis of the most common methods and discussions on their use and comparative benefits The presentation is organized into the main branches of the field run length encoding statistical methods dictionary based methods image compression audio compression and video compression Detailed descriptions and explanations of the most well known and frequently used methods are covered in a self contained fashion with an accessible style and technical level for specialists and nonspecialists In short the book provides an invaluable reference and guide for all computer scientists computer engineers electrical engineers signal image processing engineers and other scientists needing a comprehensive compilation for a broad range of compression methods

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

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Handbook of Multimedia Information Security: Techniques and Applications Amit Kumar Singh, Anand Mohan, 2019-07-19 This handbook is organized under three major parts The first part of this handbook deals with multimedia security for emerging applications The chapters include basic concepts of multimedia tools and applications biological and behavioral biometrics effective multimedia encryption and secure watermarking techniques for emerging applications an adaptive face identification approach for android mobile devices and multimedia using chaotic and perceptual hashing function The second part of this handbook focuses on multimedia processing for various potential applications The chapter includes a detail survey of image processing based automated glaucoma detection techniques and role of de noising recent study of dictionary learning based image reconstruction techniques for analyzing the big medical data brief introduction of quantum image processing and its applications a segmentation less efficient Alzheimer detection approach object recognition image enhancements and de noising techniques for emerging applications improved performance of image compression approach and automated detection of eye related diseases using digital image processing The third part of this handbook introduces multimedia applications The chapter includes the extensive survey on the role of multimedia in medicine and multimedia forensics classification a finger based authentication system for e health security analysis of recently developed deep learning techniques for emotion and activity recognition Further the book introduce a case study on change of ECG according to time for user identification role of multimedia in big data cloud computing the Internet of things IoT and blockchain environment in detail for real life applications This handbook targets researchers policy makers programmers and industry professionals in creating new knowledge for developing efficient techniques framework for multimedia applications Advanced level students studying computer science specifically security and multimedia will find this book useful as a reference

Understanding Data Communications Gilbert Held, 2000-12-19 Now in its third edition Understanding Data Communications provides a comprehensive introduction to the field of data communications for both students and professionals Assuming no prior knowledge of the field it presents an overview of the role of communications their importance and the fundamental concepts of using the ISO s 7 layer approach to present the various aspects of networking Covers the evolving high speed network access via digital subscriber line cable modems and wireless communication Examines the role of regulatory and standardization bodies the operation of the Internet and the use of a variety of electronic applications Includes a series of comprehensive questions covering the important concepts from each section Describes the

digital network used by communications carriers and the methods used to obtain access to the digital highway Discusses frequency division multiplexing which forms the foundation for the operation of several types of high speed digital subscriber line Aimed at the senior level undergraduate and graduate computer science student it is also essential reading for data processing professionals and those involved in computer science and data communications

INTERNETWORKING TECHNOLOGIES BANERJEE, RAHUL, 2003-01-01 Designed as an advanced text on internetworking technologies for senior undergraduate graduate students of computer science this unique book provides an introduction to the key concepts related to front line areas of internetwork specific research and development The text would also be highly useful to professionals who wish to keep abreast of various state of the art technologies in their fields of research

Data Communications Networking Devices Gilbert Held, 1999-01-05 Examining developments in network integration including ATM Broadband networking LAN WAN switches and specialized devices to cover LZW compression this text provides detailed analysis of different networks and network architecture

Physically Based Rendering, fourth edition Matt Pharr, Wenzel Jakob, Greg Humphreys, 2023-03-28 A comprehensive update of the leading edge computer graphics textbook that sets the standard for physically based rendering in the industry and the field with new material on GPU ray tracing Photorealistic computer graphics are ubiquitous in today's world widely used in movies and video games as well as product design and architecture Physically based approaches to rendering where an accurate modeling of the physics of light scattering is at the heart of image synthesis offer both visual realism and predictability Now in a comprehensively updated new edition this best selling computer graphics textbook sets the standard for physically based rendering in the industry and the field Physically Based Rendering describes both the mathematical theory behind a modern photorealistic rendering system as well as its practical implementation A method known as literate programming combines human readable documentation and source code into a single reference that is specifically designed to aid comprehension The book's leading edge algorithms software and ideas including new material on GPU ray tracing equip the reader to design and employ a full featured rendering system capable of creating stunning imagery This essential text represents the future of real time graphics Detailed and rigorous but accessible approach guides readers all the way from theory to practical software implementation Fourth edition features new chapter on GPU ray tracing essential for game developers The premier reference for professionals learning about and working in the field Won its authors a 2014 Academy Award for Scientific and Technical Achievement Includes a companion site complete with source code

International Journal of Computers & Applications, 2002

Data Analysis Methods in Physical Oceanography Richard E. Thomson, William J. Emery, 2024-07-16 Data Analysis Methods in Physical Oceanography Fourth Edition provides a practical reference to established and modern data analysis techniques in earth and ocean sciences In five sections the book addresses data acquisition and recording data processing and presentation statistical methods and error handling analysis of spatial data fields and time series analysis methods The updated edition includes new information

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