

THE ELECTRICAL ENGINEERING AND SIGNAL PROCESSING SERIES

THE TRANSFORM AND DATA COMPRESSION HANDBOOK



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Transform And Data Compression Handbook

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Transform And Data Compression Handbook:

The Transform and Data Compression Handbook Kamisetty Ramam Rao, Patrick C. Yip, 2018-10-03 Data compression is one of the main contributing factors in the explosive growth in information technology Without it a number of consumer and commercial products such as DVD videophone digital camera MP3 video streaming and wireless PCS would have been virtually impossible Transforming the data to a frequency or other domain enables even more efficient compression By illustrating this intimate link The Transform and Data Compression Handbook serves as a much needed handbook for a wide range of researchers and engineers The authors describe various discrete transforms and their applications in different disciplines They cover techniques such as adaptive quantization and entropy coding that result in significant reduction in bit rates when applied to the transform coefficients With clear and concise presentations of the ideas and concepts as well as detailed descriptions of the algorithms the authors provide important insight into the applications and their limitations Data compression is an essential step towards the efficient storage and transmission of information The Transform and Data Compression Handbook provides a wealth of information regarding different discrete transforms and demonstrates their power and practicality in data compression

Handbook of Data Compression David Salomon, Giovanni Motta, 2010-01-18 Data compression is one of the most important fields and tools in modern computing From archiving data to CD ROMs and from coding theory to image analysis many facets of modern computing rely upon data compression This book provides a comprehensive reference for the many different types and methods of compression Included are a detailed and helpful taxonomy analysis of most common methods and discussions on the use and comparative benefits of methods and description of how to use them Detailed descriptions and explanations of the most well known and frequently used compression methods are covered in a self contained fashion with an accessible style and technical level for specialists and non specialists

Lossless Compression Handbook Khalid Sayood, 2002-12-18 The 21 chapters in this handbook are written by the leading experts in the world on the theory techniques applications and standards surrounding lossless compression As with most applied technologies the standards section is of particular importance to practicing design engineers In order to create devices and communication systems that can communicate and be compatible with other systems and devices standards must be followed Clearly explains the process of compression and transmission of multimedia signals Invaluable resource for engineers dealing with image processing signal processing multimedia systems wireless technology and more

A Concise Introduction to Data Compression David Salomon, 2007-12-18 This clearly written book offers readers a succinct foundation to the most important topics in the field of data compression Part I presents the basic approaches to data compression and describes a few popular techniques and methods that are commonly used to compress data The reader will discover essential concepts Part II concentrates on advanced techniques such as arithmetic coding orthogonal transforms subband transforms and Burrows Wheeler transform This book is the perfect reference for advanced undergraduates in

computer science and requires a minimum of mathematics An author maintained website provides errata and auxiliary material

Data Compression David Salomon,2007-03-20 This book provides a comprehensive reference for the many different types and methods of compression Included are a detailed and helpful taxonomy analysis of most common methods and discussions on the use and comparative benefits of methods and description of how to use them Detailed descriptions and explanations of the most well known and frequently used compression methods are covered in a self contained fashion with an accessible style and technical level for specialists and nonspecialists Comments and suggestions of many readers have been included as a benefit to future readers and a website is maintained and updated by the author

Multisensor Data Fusion David Hall,James Llinas,2001-06-20 The emerging technology of multisensor data fusion has a wide range of applications both in Department of Defense DoD areas and in the civilian arena The techniques of multisensor data fusion draw from an equally broad range of disciplines including artificial intelligence pattern recognition and statistical estimation With the rapid evolut

Artificial Intelligence and Evolutionary Computations in Engineering Systems Subhransu Sekhar Dash,Paruchuri Chandra Babu Naidu,Ramazan Bayindir,Swagatam Das,2018-03-19 The book is a collection of high quality peer reviewed research papers presented in the International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems ICAIECES 2017 The book discusses wide variety of industrial engineering and scientific applications of the emerging techniques Researchers from academia and industry have presented their original work and ideas information techniques and applications in the field of communication computing and power technologies

Cosine-/Sine-Modulated Filter Banks Vladimir Britanak,K. R. Rao,2017-08-02 This book covers various algorithmic developments in the perfect reconstruction cosine sine modulated filter banks TDAC MDCT MDST or MLT MCLT low delay MDCT complex exponential cosine sine modulated QMF filter banks and near perfect reconstruction QMF banks pseudo QMF banks in detail including their general mathematical properties matrix representations fast algorithms and various methods to integer approximations being recently a new transform technology for lossless audio coding Each chapter will contain a number of examples and will conclude with problems and exercises The book reflects the research efforts activities and achieved results of the authors in the time period over the last 20 years

Advances in Intelligent Analysis of Medical Data and Decision Support Systems Roumen Kountchev,Barna Iantovics,2013-02-11 This volume is a result of the fruitful and vivid discussions during the MedDecSup 2012 International Workshop bringing together a relevant body of knowledge and new developments in the increasingly important field of medical informatics This carefully edited book presents new ideas aimed at the development of intelligent processing of various kinds of medical information and the perfection of the contemporary computer systems for medical decision support The book presents advances of the medical information systems for intelligent archiving processing analysis and search by content which will improve the quality of the medical services for every patient and of the global healthcare system The book combines in a synergistic way theoretical developments with the

practicability of the approaches developed and presents the last developments and achievements in medical informatics to a broad range of readers engineers mathematicians physicians and PhD students

Visual Content Processing and Representation Narciso Garcia, José M. Martinez, Luis Salgado, 2003-09-09 This book constitutes the refereed proceedings of the 8th International Workshop on Visual Content Processing and Representation VLBV 2003 held in Madrid Spain in September 2003 The 38 revised full papers presented together with 4 panel summaries were carefully reviewed and selected from 89 submissions The papers address all current issues in video and image analysis representation and coding communications and delivery consumption synthesis protection adaptation classification and personalization

Concrete Engineers' Handbook George A. Hool, Nathan C. Johnson, Solomon Cady Hollister, 1918 *Computer Science and Computing* Michael Knee, 2006 Publishers description Michael Knee offers a selective guide to the major resources and tools central to the computer industry A discussion of three commonly used subject classification systems precedes an annotated bibliography of over 500 items

Optical Engineering, 2003 [Handbook of Mechanical and Electrical Cost Data](#) Halbert Powers Gillette, Richard Turner Dana, 1918 *Proceedings VIPromCom-2002* Mislav Grgić, 2002 *Bowker's Best Reference Books: Author index. Title index*, 2005 Contains approximately 20 000 mostly English language sources for academic libraries of all sizes *Choice*, 2000

First IEEE International Conference on Cognitive Informatics Yingxu Wang, Ronald H. Johnston, 2002 Cognitive informatics is a cutting edge and profound interdisciplinary research area that tackles the common root problems of modern informatics computation software engineering AI cognitive science and life sciences ICCI 02 focuses on the natural information processing mechanisms and cognitive processes of the brain

Detection and Remediation Technologies for Mines and Minelike Targets IX, 2004 *Digital Signal Processing Applications*, 2004

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