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Sebastian Brünink



Vector Quantization Signal Compression:

Vector Quantization and Signal Compression Allen Gersho, Robert M. Gray, 2012-12-06 Herb Caen a popular columnist for the San Francisco Chronicle recently quoted a Voice of America press release as saying that it was reorganizing in order to eliminate duplication and redundancy This quote both states a goal of data compression and illustrates its common need the removal of duplication or redundancy can provide a more efficient representation of data and the quoted phrase is itself a candidate for such surgery Not only can the number of words in the quote be reduced without losing information but the statement would actually be enhanced by such compression since it will no longer exemplify the wrong that the policy is supposed to correct Here compression can streamline the phrase and minimize the embarrassment while improving the English style Compression in general is intended to provide efficient representations of data while preserving the essential information contained in the data This book is devoted to the theory and practice of signal compression i e data compression applied to signals such as speech audio images and video signals excluding other data types such as financial data or general purpose computer data The emphasis is on the conversion of analog waveforms into efficient digital representations and on the compression of digital information into the fewest possible bits Both operations should yield the highest possible reconstruction fidelity subject to constraints on the bit rate and implementation complexity

Handbook of Visual Communications Hseuh-Ming Hang, John W. Woods, 1995-10-16 This volume is the most comprehensive reference work on visual communications to date An international group of well known experts in the field provide up to date and in depth contributions on topics such as fundamental theory international standards for industrial applications high definition television optical communications networks and VLSI design The book includes information for learning about both the fundamentals of image video compression as well as more advanced topics in visual communications research In addition the Handbook of Visual Communications explores the latest developments in the field such as model based image coding and provides readers with insight into possible future developments Displays comprehensive coverage from fundamental theory to international standards and VLSI design Includes 518 pages of contributions from well known experts Presents state of the art knowledge the most up to date and accurate information on various topics in the field Provides an extensive overview of international standards for industrial applications

Fuzzy Systems Engineering Witold Pedrycz, Fernando Gomide, 2007-08-27 A self contained treatment of fuzzy systems engineering offering conceptual fundamentals design methodologies development guidelines and carefully selected illustrative material Forty years have passed since the birth of fuzzy sets in which time a wealth of theoretical developments conceptual pursuits algorithmic environments and other applications have emerged Now this reader friendly book presents an up to date approach to fuzzy systems engineering covering concepts design methodologies and algorithms coupled with interpretation analysis and underlying engineering knowledge The result is a holistic view of fuzzy sets as a fundamental component of computational intelligence and human

centric systems Throughout the book the authors emphasize the direct applicability and limitations of the concepts being discussed and historical and bibliographical notes are included in each chapter to help readers view the developments of fuzzy sets from a broader perspective A radical departure from current books on the subject Fuzzy Systems Engineering presents fuzzy sets as an enabling technology whose impact contributions and methodology stretch far beyond any specific discipline making it applicable to researchers and practitioners in engineering computer science business medicine bioinformatics and computational biology Additionally three appendices and classroom ready electronic resources make it an ideal textbook for advanced undergraduate and graduate level courses in engineering and science

Introduction to Data Compression Khalid Sayood, 2017-10-23 Introduction to Data Compression Fifth Edition builds on the success of what is widely considered the best introduction and reference text on the art and science of data compression Data compression techniques and technology are ever evolving with new applications in image speech text audio and video This new edition includes all the latest developments in the field Khalid Sayood provides an extensive introduction to the theory underlying today's compression techniques with detailed instruction for their applications using several examples to explain the concepts Encompassing the entire field of data compression the book includes lossless and lossy compression Huffman coding arithmetic coding dictionary techniques context based compression and scalar and vector quantization The book provides a comprehensive working knowledge of data compression giving the reader the tools to develop a complete and concise compression package Explains established and emerging standards in depth including JPEG 2000 JPEG LS MPEG 2 H 264 JBIG 2 ADPCM LPC CELP MELP iLBC and the new HEVC standard Includes more coverage of lattices in vector quantization Contains improved and expanded end of chapter problems Source code is provided via a companion website that gives readers the opportunity to build their own algorithms and choose and implement techniques in their own applications

Artificial Intelligence and Computer Vision Huimin Lu, Yujie Li, 2016-11-01 This edited book presents essential findings in the research fields of artificial intelligence and computer vision with a primary focus on new research ideas and results for mathematical problems involved in computer vision systems The book provides an international forum for researchers to summarize the most recent developments and ideas in the field with a special emphasis on the technical and observational results obtained in the past few years

Vector Quantization in Subband Coding of Images Saad John Bedros, 1995
Vector Quantization Hüseyin Abut, 1990 *DCC '95, Data Compression Conference* James Andrew Storer, Martin Cohn, 1995 Contains the presentations from the March 1995 conference which was sponsored by the IEEE Computer Society Technical Committee on Computer Communications Among the topics are hierarchical vector quantization of perceptually weighted block transforms unbounded length contexts for PPM quadtree based JBIG compression parallel algorithms for the static dictionary compression and CREW compression with reversible embedded wavelets Includes a poster session and abstracts from industry and NASA workshops No subject index Annotation copyright by Book News Inc Portland OR

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