

Jayant
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DIGITAL CODING OF WAVEFORMS

Principles and Applications
to Speech and Video

N.S. Jayant - Peter Noll



PRENTICE-HALL SIGNAL PROCESSING SERIES
ALAN F. OPPENHEIM, SERIES EDITOR

DIGITAL CODING OF WAVEFORMS
Principles and Applications to Speech and Video

Digital Coding Of Waveforms Principles And Applications To Speech And Video Prentice Hall Signal Processing Series

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Digital Coding of Waveforms Nugehally S. Jayant, Peter Noll, 1984 *Financial Signal Processing and Machine Learning* Ali N. Akansu, Sanjeev R. Kulkarni, Dmitry M. Malioutov, 2016-04-20 The modern financial industry has been required to deal with large and diverse portfolios in a variety of asset classes often with limited market data available Financial Signal Processing and Machine Learning unifies a number of recent advances made in signal processing and machine learning for the design and management of investment portfolios and financial engineering This book bridges the gap between these disciplines offering the latest information on key topics including characterizing statistical dependence and correlation in high dimensions constructing effective and robust risk measures and their use in portfolio optimization and rebalancing The book focuses on signal processing approaches to model return momentum and mean reversion addressing theoretical and implementation aspects It highlights the connections between portfolio theory sparse learning and compressed sensing sparse eigen portfolios robust optimization non Gaussian data driven risk measures graphical models causal analysis through temporal causal modeling and large scale copula based approaches Key features Highlights signal processing and machine learning as key approaches to quantitative finance Offers advanced mathematical tools for high dimensional portfolio construction monitoring and post trade analysis problems Presents portfolio theory sparse learning and compressed sensing sparsity methods for investment portfolios including eigen portfolios model return momentum mean reversion and non Gaussian data driven risk measures with real world applications of these techniques Includes contributions from leading researchers and practitioners in both the signal and information processing communities and the quantitative finance community

Profiling Humans from their Voice Rita Singh, 2019-06-18 This book is about recent research in the area of profiling humans from their voice which seeks to deduce and describe the speaker's entire persona and their surroundings from voice alone It covers several key aspects of this technology describing how the human voice is unique in its ability to both capture and influence the human persona how in some ways voice is more potent and valuable than DNA and fingerprints as a metric since it not only carries information about the speaker but also about their current state and their surroundings at the time of speaking It provides a comprehensive review of advances made in multiple scientific fields that now contribute to its foundations It describes how artificial intelligence enables mechanisms of discovery that were not possible before in this context driving the field forward in unprecedented ways It also touches upon related and relevant challenges posed by voice disguise and other mechanisms of voice manipulation The book acts as a good resource for academic researchers and for professional agencies in many areas such as law enforcement healthcare social services entertainment etc

Advances in Computers Marvin Zelkowitz, 2010-03-02 This is volume 78 of Advances in Computers This series which began publication in 1960 is the oldest continuously published anthology that chronicles the ever changing

information technology field In these volumes we publish from 5 to 7 chapters three times per year that cover the latest changes to the design development use and implications of computer technology on society today Covers the full breadth of innovations in hardware software theory design and applications Many of the in depth reviews have become standard references that continue to be of significant lasting value in this rapidly expanding field Digital Signal and Image Processing Using MATLAB Gerard Blanchet, Maurice Charbit, 2006-05-22 This title provides the most important theoretical aspects of Image and Signal Processing ISP for both deterministic and random signals The theory is supported by exercises and computer simulations relating to real applications More than 200 programs and functions are provided in the MATLAB language with useful comments and guidance to enable numerical experiments to be carried out thus allowing readers to develop a deeper understanding of both the theoretical and practical aspects of this subject **Document and Image Compression** Mauro Barni, 2018-10-08 Although it is true that image compression research is a mature field continued improvements in computing power and image representation tools keep the field spry Faster processors enable previously intractable compression algorithms and schemes and certainly the demand for highly portable high quality images will not abate Document and Image Compression highlights the current state of the field along with the most probable and promising future research directions for image coding Organized into three broad sections the book examines the currently available techniques future directions and techniques for specific classes of images It begins with an introduction to multiresolution image representation advanced coding and modeling techniques and the basics of perceptual image coding This leads to discussions of the JPEG 2000 and JPEG LS standards lossless coding and fractal image compression New directions are highlighted that involve image coding and representation paradigms beyond the wavelet based framework the use of redundant dictionaries the distributed source coding paradigm and novel data hiding techniques The book concludes with techniques developed for classes of images where the general purpose algorithms fail such as for binary images and shapes compound documents remote sensing images medical images and VLSI layout image data Contributed by international experts Document and Image Compression gathers the latest and most important developments in image coding into a single convenient and authoritative source *Digital Signal Processing in Telecommunications* F.A. Westall, S.F.A. Ip, 1993-07-31 Digital Signal Processing in Telecommunications aims to provide a practical insight into the way in which digital signal processing DSP technology is exploited across a broad range of telecommunications applications The book also provides relevant background as well as state of the art material on recent and future development of DSP technology and applications **Memorandum**, 1994 **Journal of the Institution of Electronics and Telecommunication Engineers**, 1988 Visual Communication and Image Processing '91, 1991 **Visual Communications and Image Processing '91**, 1991 *Proceedings*, 1998 *ITS '98 Proceedings*, 1998 This text presents technological advances and research results in the area of telecommunications It covers such topics as communication theory applied electromagnetics speech processing

broadband networks communications software optical systems image processing and wireless communications **Digital Image Processing** Rama Chellappa,1992 **AES**; ,2003 **Visual Communications and Image Processing** ,1995
The Communications Handbook Jerry D. Gibson,2018-10-08 For more than six years The Communications Handbook stood as the definitive one stop reference for the entire field With new chapters and extensive revisions that reflect recent technological advances the second edition is now poised to take its place on the desks of engineers researchers and students around the world From fundamental theory to state of the art applications The Communications Handbook covers more areas of specialty with greater depth than any other handbook available Telephony Communication networks Optical communications Satellite communications Wireless communications Source compression Data recording Expertly written skillfully presented and masterfully compiled The Communications Handbook provides a perfect balance of essential information background material technical details and international telecommunications standards Whether you design implement buy or sell communications systems components or services you ll find this to be the one resource you can turn to for fast reliable answers *Communication Systems* Simon Haykin,2001 A comprehensive resource guide to digital communications featuring the theories and principles behind advanced communications systems **Electronic Warfare Receiving Systems** Dennis David Vaccaro,1993 This is a reference work for EW engineers which is also intended for university use in advanced undergraduate or graduate level courses in EW radar and aerospace systems This text reviews the fundamental concepts and physical principles underlying EW receiving systems design analysis and performance evaluation The main discussion focuses on radar signals in military applications **IECON '94: Special sessions, signal processing and control** ,1994

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