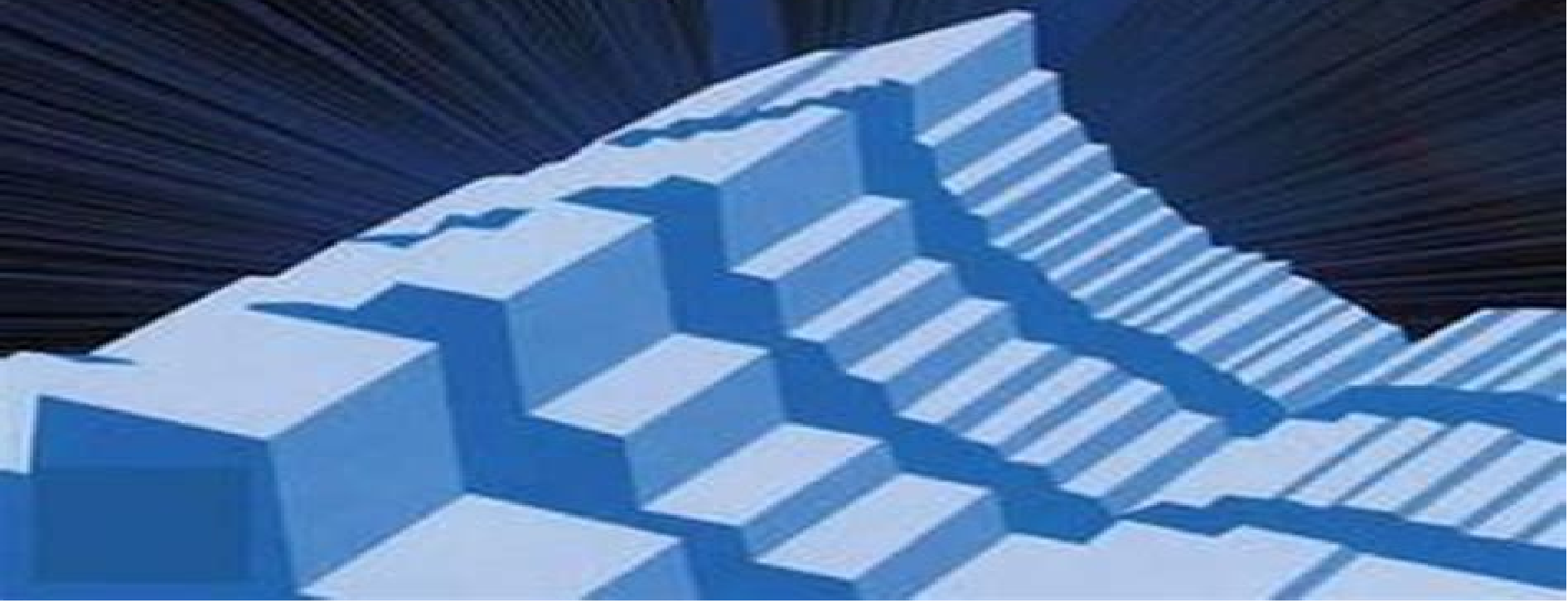


Wavelets & Subband CODING

Martin Vetterli and Jelena Kovacevic



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Information Loss in Deterministic Signal Processing Systems Bernhard C. Geiger, Gernot Kubin, 2017-07-02 This book introduces readers to essential tools for the measurement and analysis of information loss in signal processing systems. Employing a new information theoretic systems theory, the book analyzes various systems in the signal processing engineer's toolbox: polynomials, quantizers, rectifiers, linear filters with and without quantization effects, principal components analysis, multirate systems, etc. The user benefit of signal processing is further highlighted with the concept of relevant information loss. Signal or data processing operates on the physical representation of information so that users can easily access and extract that information. However, a fundamental theorem in information theory, data processing inequality, states that deterministic processing always involves information loss. These measures form the basis of a new information theoretic systems theory which complements the currently prevailing approaches based on second order statistics such as the mean squared error or error energy. This theory not only provides a deeper understanding but also extends the design space for the applied engineer with a wide range of methods rooted in information theory, adding to existing methods based on energy or quadratic representations.

Wavelets and Subband Coding Martin Vetterli, Jelena Kovacevic, 2013-05-06 Over the past few years, wavelets and their discrete time cousins, filter banks or subband coding, have been used in a variety of signal processing applications. From speech, image, compression, and computer vision, different disciplines have built up methods and tools now cast in the common framework of wavelets. Offering a unified view of this exciting field, *Wavelets and Subband Coding* develops the theory in both continuous and discrete time and presents important applications. Chapter 1 gives an overview of the topics covered and introduces the concept of multiresolution that is central in both theory and applications. Chapter 2 is a review of fundamentals that makes the book self-contained and it includes discussions of vector spaces, Fourier theory, signal processing, and time-frequency analysis. Chapter 3 develops discrete time linear expansions based on filter banks or subband coding. The two-channel case is studied in detail. The multichannel case as well as transmultiplexers are developed and design examples are given. Chapter 4 develops wavelets both with direct approaches and based on filter banks and describes wavelet series and their computation as well as the construction of modified local Fourier transforms. Chapter 5 discusses continuous wavelet and local Fourier transforms that are used in signal analysis as well as discretized versions leading to frames. Chapter 6 addresses efficient algorithms for filter banks and wavelet computations. Chapter 7 concludes the coverage by describing signal compression where filter banks and wavelets play important roles, including speech, audio, image, and video compression. Source coding using transforms, quantization, and entropy coding are studied in detail, and the usefulness of multiresolution coding in current applications is discussed. In addition, each chapter includes numerous illustrative examples, and several appendices cover additional material. The book includes about a hundred homework problems and contains 130 illustrations and photographs.

Wavelet and Subband Coding Vetterli, Kov, 1996-01-01

Wavelets and Subbands Agostino Abbate, Casimer DeCusatis, Pankaj K. Das, 2012-12-06 Recently there has been intense research activity on the subject of wavelet and subband theory. Experts in diverse fields such as mathematics, physics, electrical engineering, and image processing have provided original and pioneering works and results. But this diversity, while rich and productive, has led to a sense of fragmentation, especially to those new to the field and to nonspecialists who are trying to understand the connections between the different aspects of wavelet and subband theory. *Wavelets and Subbands* is designed to present an understanding of wavelets and their development from a continuous domain transformation to a frame representation and finally to multiresolution analysis tools such as subband decomposition. The book presents a theoretical understanding of the subject that is intertwined with practical examples and applications of wavelets in ultrasonic and biomedical domains. There is special emphasis on applications in communications, compression, and image processing. Topics and Features: Provides an understanding of the link between the continuous wavelet transform, the fast wavelet transform, and subband decomposition. Algorithms and numerical examples are implemented in MATLAB. Discusses the design of wavelet bases and details how to implement the transform both in hardware and software. Covers the fundamentals and the developments of the links between areas such as time-frequency analysis, digital signal processing, image processing, and Fourier and wavelet transform, both continuous and discrete. Offers extended mathematical treatment and numerous examples with particular emphasis on the transition from the continuous domain to multiresolution and subband decomposition. The book is an essential text and reference for graduates, researchers, and professionals in electrical engineering.

Wavelets and Signal Processing P. Duhamel, 1993 *Wavelets* Martin Vetterli, Jelena Kovacevic, 1998

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