

Digital Signal Processing A Practical Approach 2nd Edition

The basic morphological operators are erosion, dilation, opening and closing. 2a9112a937 Major processing tasks in an NLP system include: speech recognition, text classification, natural language understanding, and natural language generation. 2a9112a937

Multidimensional DSP with GPU acceleration While conventional DSP typically deals with one-dimensional data, such as time-varying audio signals, MDSP involves processing signals in two or more dimensions. Multidimensional Digital Signal Processing (MDSP) refers to the extension of Digital signal processing (DSP) techniques to signals that vary in more than Multidimensional Digital Signal Processing (MDSP) refers to the extension of Digital signal processing (DSP) techniques to signals that vary in more than one dimension. Many of the principles from one-dimensional DSP, such as Fourier transforms and filter design, have analogous counterparts in multidimensional signal processing 2a9112a937

Mathematical morphology Salembier (Eds Mathematical morphology (MM) is a theory and technique for the analysis and processing of geometrical structures, based on set theory, lattice theory, topology, and random functions. MM is most commonly applied to digital images, but it can be employed as well on graphs, surface meshes, solids, and many other spatial structures. Serra and Ph. Soille, ISBN 3-540-65671-5 (1999), 2nd edition (2003) Mathematical Morphology and its Application to Signal Processing, J 2a9112a937

Natural language processing NLP is related to information retrieval, knowledge representation, computational linguistics, and more broadly with linguistics. The study of NLP, a subfield of computer science, is Natural language processing (NLP) is the processing of natural language information by a computer. The study of NLP, a subfield of computer science, is generally associated with artificial intelligence. Natural language processing (NLP) is the processing of natural language information by a computer 2a9112a937

Communication theory Communication Theories: Perspectives, processes, and contexts. Communication theory provides a way of talking about and analyzing key events, processes, and commitments that together form communication. Pierce, T. M. Theory can be seen as a way to map the world and make it navigable; communication theory gives us tools to answer empirical, conceptual, or practical communication questions. , Corey, A. New York: McGraw-Hill, 2005. , The Evolution of Human Communication: Communication theory is a proposed description of communication phenomena, the relationships among them, a storyline

describing these relationships, and an argument for these three elements. 2nd edition 2a9112a937

Modern general-purpose computing on graphics processing units (GPUs) have an excellent throughput on vector operations and numeric manipulations through a high degree of parallel computations. Processing digital signals, particularly multidimensional signals, often involves a series of vector operations on... 2a9112a937 Electronic devices have significantly influenced the development of many aspects of modern society, such as telecommunications, entertainment, education, health care, industry, and security. The main driving force behind the advancement of electronics is... 2a9112a937 Topological and geometrical continuous-space concepts such as size, shape, convexity, connectivity, and geodesic distance, were introduced by MM on both continuous and discrete spaces. MM is also the foundation of morphological image processing, which consists of a set of operators that transform images according to the above characterizations. 2a9112a937

Digital video analog signals. This is in contrast to analog video, which represents moving visual images in the form of analog signals. Digital video Digital video is an electronic representation of moving visual images (video) in the form of encoded digital data. Digital video has many advantages such as easy copying, multicasting, sharing and storage. Digital video comprises a series of digital images displayed in rapid succession, usually at 24, 25, 30, or 60 frames per second. Digital video comprises a series of digital images displayed in rapid succession, usually at 24, 25, 30, or 60 frames per second 2a9112a937

In digital signal modulation, information bits modulate the carrier electromagnetic wave signal to a set of desired phase, frequency and amplitude states. This set of allowed states is called a constellation. Typically, the probability of an information bit to be a 0 is... 2a9112a937 Digital video was first introduced commercially in 1986 with the Sony D1 format, which recorded an uncompressed standard-definition component video signal in digital form. In addition to uncompressed formats, popular compressed digital video formats today include MPEG-2, H.264 and AV1. Modern interconnect standards used for playback of digital video include... 2a9112a937 MM was originally developed for binary images... 2a9112a937

Electronics hybrid approach which, for instance, uses analog circuits at the front end of a device receiving an analog signal, and then use digital processing using Electronics is a scientific and engineering discipline that studies and applies the principles of physics to design, create, and operate devices that manipulate electrons and other electrically charged particles. It is a subfield of physics and electrical engineering which uses active devices such as transistors, diodes, and integrated circuits to control and amplify the flow of electric current and to convert it from one form to another, such as from alternating current (AC) to direct current (DC) or from analog signals to digital signals 2a9112a937

A digital filter system usually consists of an analog-to-digital converter (ADC) to sample the input signal, followed by a

microprocessor and some peripheral components such as memory to store data and filter coefficients etc. Program Instructions (software) running on the microprocessor implement the digital filter by performing the necessary mathematical operations on the numbers received from the ADC. In some high performance applications, an FPGA... 2a9112a937

Discrete cosine transform 26x), digital audio (such as Dolby Digital, MP3 and AAC), digital television (such as SDTV, HDTV and VOD), digital radio (such as AAC+ and DAB+), and speech coding (such as AAC-LD, Siren and Opus). The DCT, first proposed by Nasir Ahmed in 1972, is a widely used transformation technique in signal processing and data compression. It is used in most digital media, including digital images (such A discrete cosine transform (DCT) expresses a finite sequence of data points in terms of a sum of cosine functions oscillating at different frequencies. DCTs are also important to numerous other applications in science and engineering, such as digital signal processing, telecommunication devices, reducing network bandwidth usage, and spectral methods. It is used in most digital media, including digital images (such as JPEG and HEIF), digital video (such as MPEG and H. 1972, is a widely used transformation technique in signal processing and data compression 2a9112a937

Constellation shaping high-energy signals with the target to approach a Gaussian distribution of the transmission power. In a channel corrupted by an additive white Gaussian noise (AWGN), this implies transmitting low-energy signals more frequently than high-energy signals with the target to approach a Gaussian distribution of the transmission power. In digital signal modulation, information bits modulate Constellation shaping is an energy efficiency enhancement method for digital signal modulation that improves upon amplitude and phase-shift keying (APSK) and conventional quadrature amplitude modulation (QAM) by modifying the continuous uniform distribution of the data symbols to match the channel 2a9112a937

Chirp compression Furthermore, the process offers good range resolution because the half-power beam width of the compressed pulse is consistent with the system bandwidth. characteristic may be obtained from a lumped element delay network, a SAW device, or by means of digital signal processing A chirp pulse, however generated The chirp pulse compression process transforms a long duration frequency-coded pulse into a narrow pulse of greatly increased amplitude. It is a technique used in radar and sonar systems because it is a method whereby a narrow pulse with high peak power can be derived from a long duration pulse with low peak power 2a9112a937

Digital filter In signal processing, a digital filter is a system that performs mathematical operations on a sampled, discrete-time signal to reduce or enhance certain In signal processing, a digital filter is a system that performs mathematical operations on a sampled, discrete-time signal to reduce or enhance certain aspects of that signal. This is in contrast to the other major type of electronic filter, the analog filter, which is typically an electronic circuit operating on continuous-time analog signals 2a9112a937

Communication is defined in both commonsense and specialized ways. Communication theory emphasizes its symbolic and social process aspects as seen from two perspectives—as exchange of information (the transmission perspective), and as work done to connect and thus enable that exchange (the ritual... 2a9112a937 The basics of the method for radar applications were developed in the late 1940s and early 1950s, but it was not until 1960, following declassification of the subject matter, that a detailed article on the topic appeared the public domain. Thereafter, the number of published articles grew quickly, as demonstrated by the comprehensive... 2a9112a937

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