Fast Algorithms For Signal Processing

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Fast Fourier transform - Wikipedia
imaging systems, and speech processing. The problem is ill-posed, and therefore additional assumptions on the signal and/or the measurements are necessary. In this paper, we ?rst study the case where the underly signal x? is s-sparse. We develop a novel recovery algorithm that we call Compressive Phase Retrieval

Fast Algorithms for Signal Processing and Error Control ...
Boxlets: a Fast Convolution Algorithm for Signal Processing and Neural Networks Patrice Y. Simard·, Leon Botton, Patrick Haffner and Yann LeCnn AT&T Labs-Research 100 Schultz Drive, Red Bank, NJ 07701-7033 patrice@microsoft.com {leon b ,haffner ,yann }@research.att.com Abstract Signal processing and pattern recognition algorithms make exten

Fast Algorithms for Digital Signal Processing | Guide books
Algorithms for computation are a central part of digital signal processing and of decoders for error-control codes. When restricted to the study of their computational algorithms, there is not much to distinguish those tw subjects. Only the arithmetic field is different; in one case the real or complex field, and a Galois field in the other.

Fast Algorithms for Signal Processing
Efficient signal processing algorithms are important for embedded and power-limited applications since, by reducing the number of computations, power consumption can be reduced significantly. Similarly, efficient algorithms are also critical to very large scale applications such as video processing and four-dimensional medical imaging.

Fast Gradient-Based Algorithms for Constrained Total ...
Fast Algorithms for Digital Signal Processing does cover DSP techniques (primarily FFT and convolution). It also has a few chapters covering the mathematical background of these algorithms, which is helpful to the beginner. There isn't any code, although algorithms are described in flowcharts and pseudo-code...

Fast Algorithms For Signal Processing
1.4 Digital signal processing 9 1.5 History of fast signal-processing algorithms 17 2 Introduction to abstract algebra 21 2.1 Groups 21 2.2 Rings 26 2.3 Fields 30 2.4 Vector space 34 2.5 Matrix algebra 37 2.6 The integ ring 44 2.7 Polynomial rings 48 2.8 The Chinese remainder theorem 58 3 Fast algorithms for the discrete Fourier transform 68

Fast Algorithms for Digital Signal Processing: Blahut ...
Fast algorithms and architectures covering new and old classes of Fourier-like transforms, convolutions, Toeplitz-like matrices, their eigenvalues, eigenvectors and their inversions as well as their applications in real-ti signal/image processing and understanding are discussed.

FAST ALGORITHMS AND ARCHITECTURES FOR SIGNAL/IMAGE ...
Digital Signal Processing Algorithms describes computational number theory and its applications to deriving fast algorithms for digital signal processing. It demonstrates the importance of computational number theory the design of digital signal processing algorithms and clearly describes the nature and structure of the algorithms themselves. The book has two primary focuses: first, it ...

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Abstract: This paper studies gradient-based schemes for image denoising and deblurring problems based on the discretized total variation (TV) minimization model with constraints. We derive a fast algorithm for the constrained TV-based image deburring problem. To achieve this task, we combine an acceleration of the well known dual approach to the denoising problem with a novel monotone version ...

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Thus the second way of computing A is much more efficient and fast compared to the first method of computing A. This is the motivation for the evolution of the fast algorithms in the digital signal processing Field. Consequently, many of the real-world applications make use of these efficient Algorithms for fast computations.

Fast Algorithms for Signal Processing | Richard E. Blahut ...
Feng Zhao, Leonidas J. Guibas, in Wireless Sensor Networks, 2004. 8.3.4 Lightweight Signal Processing. Lightweight signal processing algorithms refer to methods that require relatively little floating-point computation and less memory storage than those that are floating-point intensive such as Fast Fourier Transform (FFT). This is attractive, since the signal processing algorithms are ...

Fast Algorithms for Digital Signal Processing. (1985)
Optimized FFT Algorithm and its Applic ation to Fast GPS Signal Acquisition 161 As the local code is real signal, the complex conjugates of and could be expressed by and respectively. The amplitude output is (6) According to the correlation of original signal and local code, adjudicate the relevant results.

Signal Processing Algorithm - an overview | ScienceDirect ...
Lizhi C and Zengrong J (2001) An efficient algorithm for cyclic convolution based on fast-polynomial and fast-W transforms, Circuits, Systems, and Signal Processing, 20:1, (77-88), Online publication date: 1-Jan-2001

Optimized FFT Algorithm and its Application to Fast GPS ...
A fast Fourier transform (FFT) is an algorithm that computes the discrete Fourier transform (DFT) of a sequence, or its inverse (IDFT). Fourier analysis converts a signal from its original domain (often time or space) to a representation in the frequency domain and vice versa. The DFT is obtained by decomposing a sequence of values into components of different frequencies.

Digital Signal Processing Algorithms: Number Theory ...
Abstract Signal processing and pattern recognition algorithms make extensive use of convolution. In many cases, computational accuracy is not as important as computational speed. In feature extraction, for instance, features of interest in a

Boxlets: A Fast Convolution Algorithm for Signal ...
Signal Processing Stack Exchange is a question and answer site for practitioners of the art and science of signal, ... I have tried some fast algorithms, but they seem to be slower than the naive approach: a naive DCT elements is faster the Fast version, ...

Fast Algorithms for Multidimensional Signals - Wikipedia
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