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E., Feig and S., Winograd, Fast Algorithms for the Discrete Cosine Transform, IEEE Transactions on Signal Processing, SP-40, 2174 – 2193, 1992. C. M., Fiduccia, Polynomial Evaluation via the Division Algorithm – The Fast Fourier Transform Revisited, Proceedings of the 4th Annual ACM Symposium on the Theory of Computing, 88 – 93, 1972 .

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Fast Algorithms for Signal Processing. Richard E. Blahut. 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.

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Fast algorithms for signal processing (2010 edition ...

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.

Fast Algorithms for Digital Signal Processing | Guide books

Heckbert has devel oped an effective filtering algorithm [2] where the filter g is a simple combination of polynomial of degree $n - 1$. Convolution between a signal f and the filter g can be written as $f * g = r * g - n(3)$ where r is the n -th integral of the signal, and the n -th derivative of the filter.

Boxlets: A Fast Convolution Algorithm for Signal ...

Digital signal processors (DSPs) are designed to efficiently handle signal processing algorithms such as the Fast Fourier Transform (FFT) and Finite/Infinite Impulse Response filters (FIR/IIR). Common applications include audio and video encoding and decoding, motor control, and speech recognition.

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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 in 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 establishes the properties of discrete-time sequence indices and their corresponding fast algorithms ...

Digital Signal Processing Algorithms: Number Theory ...

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Similar to 1-D Digital signal processing in case of the Multidimensional signal processing we have Efficient algorithms. The efficiency of an Algorithm can be evaluated by the amount of computational resources it takes to compute output or the quantity of interest. In this page, two of the very efficient algorithms for multidimensional signals are explained. For the sake of simplicity and description it is explained for 2-D Signals. However, same theory holds good for M-D signals. The exact comp

Fast Algorithms for Multidimensional Signals - Wikipedia

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 Algorithms for Signal Processing: Blahut, Richard E ...

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.

Fast Fourier transform - Wikipedia

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