

Fast Fourier Transform and its Applications

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Abstract— This paper shows explanation of the theory of FFT, the difference between FFT and DFT, and visualize few applications of FFT in the real world. Then, we discussed one of these applications which is FFT in polynomial multiplication and showed all the related theories and explanation that verifies the relation between the two topics, and how FFT is used to reduce the complexity of solving such problem.

Keywords— Fourier, DFT, Signals, FFT, Inverse Fourier

I. INTRODUCTION

A signal can be considered as a physical variable that varies with time and have specific instruction or values. We can represent it in two ways: Continuous and Discrete. A signal, continuous or discrete, can be processed and analyzed using a method called Fourier Transform, in the frequency and time domain. Fourier Transform can be divided to 4 classes: Fourier Series, Discrete Fourier Transform, Discrete - time Fourier Transform and Fast Fourier Transform, where the latter will be discussed in this paper.

The Fast Fourier Transform is an advanced technology developed by Joseph Fourier in 1982, and re - studied later by 2 other scientists: James Cooley and John Tukey. FFT is a methodology that performs and computes the Discrete Fourier Transform (DFT) faster than any other method or algorithm.^[1] It converts any signal into spectral component and hence provide a frequency related information about the signal. Over a period of time, the signal will be sampled and distributed into frequency components.

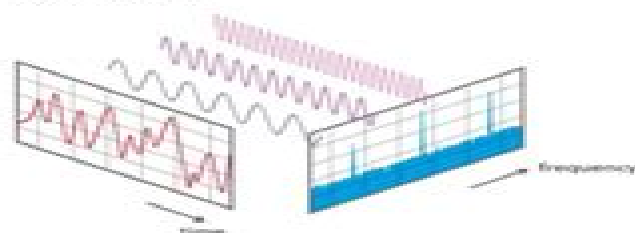


Figure 1: Signal in time and Frequency Domain

In Figure 1 we can see how the previously stated transformation is illustrated, and it is obvious how the signal is divided to 3 distinct frequencies.

II. DIFFERENCE BETWEEN FFT AND DTFT

Mathematically speaking, the Discrete - Time Fourier Transform (DTFT) is one type of the Fourier analysis that can be done to a sequence of values, that is usually used to divide a function to several samples and analyze them. It is considered to be continuous function of frequency, whereas the simple Discrete Fourier Transform (DFT) analyzes and studies the discrete samples.

Both methods are effective in the world of science and engineering, but here comes the importance of Fast Fourier Transform (FFT) technique. Basically, the difference between these techniques is that DTFT and DFT's work is being enhanced using FFT, where all of them uses Fourier series and transform but in different ways.^[2] The table below shows a brief idea about the difference between FFT and DTFT:

Table 1: Brief Difference between FFT and DTFT

	FFT	DTFT
Definition	The combination of multiple computing techniques including DFT and DTFT	Mathematical Technique that transforms time to frequency domains by dividing the signal into samples.
Work	Very Fast Analysis	Providing the relation between time and frequency domain
Applications	Solving partial differential equations, JPEG compression, etc....	Spectrum estimation, conviction, etc...
Version	Fast Version	Discrete Version

As we can see in Table 1, the difference between FFT and DTFT can be divided to many categories. The DTFT requires a big amount of time with a high number of samples N , whereas, FFT is an algorithm to make DTFT computations faster. The FFT hold one good assumption: that N is an integer multiple of two. This allows certain symmetries to occur, and hence reducing the number of calculations with less time. FFT has an advantage over DFT and DTFT because we have a decrease in the complexity from $O(N^2)$ to $O(N \log N)$ where N is representing the data points or number of samples. So, for example if $N = 1024 = 2^{10}$, $N \log N = 10240$.

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Fast Fourier Transform And Its Applications:

The Fast Fourier Transform and Its Applications E. Oran Brigham, 1988 The Fast Fourier Transform FFT is a mathematical method widely used in signal processing This book focuses on the application of the FFT in a variety of areas Biomedical engineering mechanical analysis analysis of stock market data geophysical analysis and the conventional radar communications field

The Fast Fourier Transform and Its Applications E. Oran Brigham, 1988 **Lectures on the Fourier Transform and Its Applications** Brad G. Osgood, 2019-01-18 This book is derived from lecture notes for a course on Fourier analysis for engineering and science students at the advanced undergraduate or beginning graduate level Beyond teaching specific topics and techniques all of which are important in many areas of engineering and science the author's goal is to help engineering and science students cultivate more advanced mathematical know how and increase confidence in learning and using mathematics as well as appreciate the coherence of the subject He promises the readers a little magic on every page The section headings are all recognizable to mathematicians but the arrangement and emphasis are directed toward students from other disciplines The material also serves as a foundation for advanced courses in signal processing and imaging There are over 200 problems many of which are oriented to applications and a number use standard software An unusual feature for courses meant for engineers is a more detailed and accessible treatment of distributions and the generalized Fourier transform There is also more coverage of higher dimensional phenomena than is found in most books at this level

Handbook of Fourier Analysis & Its Applications Robert J. Marks, 2009-01-08 This practical applications based professional handbook comprehensively covers the theory and applications of Fourier Analysis spanning topics from engineering mathematics signal processing and related multidimensional transform theory and quantum physics to elementary deterministic finance and even the foundations of western music theory

Fast Fourier Transform - Algorithms and Applications K.R. Rao, Do Nyeon Kim, Jae Jeong Hwang, 2011-02-21 This book presents an introduction to the principles of the fast Fourier transform This book covers FFTs frequency domain filtering and applications to video and audio signal processing As fields like communications speech and image processing and related areas are rapidly developing the FFT as one of essential parts in digital signal processing has been widely used Thus there is a pressing need from instructors and students for a book dealing with the latest FFT topics This book provides thorough and detailed explanation of important or up to date FFTs It also has adopted modern approaches like MATLAB examples and projects for better understanding of diverse FFTs

The Fast Fourier Transform and Its Applications Chandrakant M. Mehta, 1969 *The Fourier Transform and Its Applications* Ronald Newbold Bracewell, 2000 This text is designed for use in a senior undergraduate or graduate level course in Fourier Transforms This text differs from many other fourier transform books in its emphasis on applications Bracewell applies mathematical concepts to the physical world throughout this text equipping students to think about the world and physics in terms of transforms The pedagogy in this classic text is excellent The author

has included such tools as the pictorial dictionary of transforms and bibliographic references. In addition there are many excellent problems throughout this book which are more than mathematical exercises often requiring students to think in terms of specific situations or asking for educated opinions. To aid students further discussions of many of the problems can be found at the end of the book.

The Nonuniform Discrete Fourier Transform and Its Applications in Signal Processing
 Sonali Bagchi, Sanjit K. Mitra, 2012-12-06

The growth in the field of digital signal processing began with the simulation of continuous time systems in the 1950s even though the origin of the field can be traced back to 400 years when methods were developed to solve numerically problems such as interpolation and integration. During the last 40 years there have been phenomenal advances in the theory and application of digital signal processing. In many applications the representation of a discrete time signal or a system in the frequency domain is of interest. To this end the discrete time Fourier transform DTFT and the z transform are often used. In the case of a discrete time signal of finite length the most widely used frequency domain representation is the discrete Fourier transform DFT which results in a finite length sequence in the frequency domain. The DFT is simply composed of the samples of the DTFT of the sequence at equally spaced frequency points or equivalently the samples of its z transform at equally spaced points on the unit circle. The DFT provides information about the spectral contents of the signal at equally spaced discrete frequency points and thus can be used for spectral analysis of signals. Various techniques commonly known as the fast Fourier transform FFT algorithms have been advanced for the efficient computation of the DFT. An important tool in digital signal processing is the linear convolution of two finite length signals which often can be implemented very efficiently using the DFT.

Computational Science and Its Applications - ICCSA 2004
 Antonio Laganà, Marina L. Gavrilova, Vipin Kumar, Youngsong Mun, C.J. Kenneth Tan, Osvaldo Gervasi, 2004-05-07

The natural mission of Computational Science is to tackle all sorts of human problems and to work out intelligent automata aimed at alleviating the burden of working out suitable tools for solving complex problems. For this reason Computational Science though originating from the need to solve the most challenging problems in science and engineering computational science is the key player in the fight to gain fundamental advances in astronomy biology chemistry environmental science physics and several other scientific and engineering disciplines. It is increasingly turning its attention to all fields of human activity. In all activities in fact intensive computation information handling knowledge synthesis the use of ad hoc devices etc increasingly need to be exploited and coordinated regardless of the location of both the users and the various and heterogeneous computing platforms. As a result the key to understanding the explosive growth of this discipline lies in two adjectives that more and more appropriately refer to Computational Science and its applications: interoperable and ubiquitous. Numerous examples of ubiquitous and interoperable tools and applications are given in the present four LNCS volumes containing the contributions delivered at the 2004 International Conference on Computational Science and its Applications ICCSA 2004 held in Assisi Italy May 14-17 2004.

Computational Science

and Its Applications - ICCSA 2017 Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Giuseppe Borruso, Carmelo M. Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Apduhan, Elena Stankova, Alfredo Cuzzocrea, 2017-07-03 The six volume set LNCS 10404 10409 constitutes the refereed proceedings of the 17th International Conference on Computational Science and Its Applications ICCSA 2017 held in Trieste Italy in July 2017 The 313 full papers and 12 short papers included in the 6 volume proceedings set were carefully reviewed and selected from 1052 submissions Apart from the general tracks ICCSA 2017 included 43 international workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality Furthermore this year ICCSA 2017 hosted the XIV International Workshop On Quantum Reactive Scattering The program also featured 3 keynote speeches and 4 tutorials

Computational Frameworks for the Fast Fourier Transform Charles Van Loan, 1992-01-01 The author captures the interplay between mathematics and the design of effective numerical algorithms

Hilbert-huang Transform And Its Applications (2nd Edition) Norden E Huang, Samuel S P Shen, 2014-04-22 This book is written for scientists and engineers who use HHT Hilbert Huang Transform to analyze data from nonlinear and non stationary processes It can be treated as a HHT user manual and a source of reference for HHT applications The book contains the basic principle and method of HHT and various application examples ranging from the correction of satellite orbit drifting to detection of failure of highway bridges The thirteen chapters of the first edition are based on the presentations made at a mini symposium at the Society for Industrial and Applied Mathematics in 2003 Some outstanding mathematical research problems regarding HHT development are discussed in the first three chapters The three new chapters of the second edition reflect the latest HHT development including ensemble empirical mode decomposition EEMD and modified EMD The book also provides a platform for researchers to develop the HHT method further and to identify more applications

Fourier and Laplace Transforms, 2003-08-07 This textbook presents in a unified manner the fundamentals of both continuous and discrete versions of the Fourier and Laplace transforms These transforms play an important role in the analysis of all kinds of physical phenomena As a link between the various applications of these transforms the authors use the theory of signals and systems as well as the theory of ordinary and partial differential equations The book is divided into four major parts periodic functions and Fourier series non periodic functions and the Fourier integral switched on signals and the Laplace transform and finally the discrete versions of these transforms in particular the Discrete Fourier Transform together with its fast implementation and the z transform This textbook is designed for self study It includes many worked examples together with more than 120 exercises and will be of great value to undergraduates and graduate students in applied mathematics electrical engineering physics and computer science

The Fast Fourier Transform And Its Applications E.O. Brigham, *Hilbert-huang Transform And Its Applications* Norden E Huang, Samuel S P Shen, 2005-09-20 The Hilbert Huang Transform HHT represents a desperate attempt to break the suffocating hold on the field of data analysis by the twin assumptions of linearity and stationarity Unlike

spectrograms wavelet analysis or the Wigner Ville Distribution HHT is truly a time frequency analysis but it does not require an a priori functional basis and therefore the convolution computation of frequency The method provides a magnifying glass to examine the data and also offers a different view of data from nonlinear processes with the results no longer shackled by spurious harmonics the artifacts of imposing a linearity property on a nonlinear system or of limiting by the uncertainty principle and a consequence of Fourier transform pairs in data analysis This is the first HHT book containing papers covering a wide variety of interests The chapters are divided into mathematical aspects and applications with the applications further grouped into geophysics structural safety and visualization

The Regularized Fast Hartley Transform Keith John Jones, 2021-09-03 This book describes how a key signal image processing algorithm that of the fast Hartley transform FHT or via a simple conversion routine between their outputs of the real data version of the ubiquitous fast Fourier transform FFT might best be formulated to facilitate computationally efficient solutions The author discusses this for both 1 D such as required for example for the spectrum analysis of audio signals and m D such as required for example for the compression of noisy 2 D images or the watermarking of 3 D video signals cases but requiring few computing resources i e low arithmetic memory power requirements etc This is particularly relevant for those application areas such as mobile communications where the available silicon resources as well as the battery life are expected to be limited The aim of this monograph where silicon based computing technology and a resource constrained environment is assumed and the data is real valued in nature has thus been to seek solutions that best match the actual problem needing to be solved

Applications of Fourier Transforms to Generalized Functions M. Rahman, 2011 The generalized function is one of the important branches of mathematics which has enormous applications in practical fields In particular its applications to the theory of distribution and signal processing are very much essential In this computer age information science plays a very important role and the Fourier transform is extremely significant in deciphering obscured information to be made understandable The book contains six chapters and three appendices Chapter 1 deals with the preliminary remarks of Fourier series from general point of view Chapter 2 is concerned with the generalized functions and their Fourier transforms Chapter 3 contains the Fourier transforms of particular generalized functions Chapter 4 deals with the asymptotic estimation of Fourier transforms Chapter 5 is devoted to the study of Fourier series as a series of generalized functions Chapter 6 deals with the fast Fourier transforms Appendix A contains the extended list of Fourier transform pairs Appendix B illustrates the properties of impulse function Appendix C contains an extended list of biographical references

Fast Fourier Transforms James S. Walker, 2017-11-22 This new edition of an indispensable text provides a clear treatment of Fourier Series Fourier Transforms and FFTs The unique software included with the book and newly updated for this edition allows the reader to generate firsthand images of all aspects of Fourier analysis described in the text Topics covered include

The Fast Fourier Transform and Its Applications, 1965

The Control Handbook William S. Levine, 2017-12-19 At publication The Control

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web mar 18 2016 the theme in the story is the mom not wanting her daughter to be turned into an adult fear by gabriela mistral 1st literary device the metaphor in the poem fear is when the mother worries about how her child will become like a swallow and fly far away from her nest and not come again meaning she is scared for how much little time she

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