

Signals  
and  
Communication  
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Omid S. Jahromi

# Multirate Statistical Signal Processing

 Springer

Multirate Statistical Signal Processing Author Omid S  
Jahromi May 2007

**Fredric J. Harris**



## **Multirate Statistical Signal Processing Author Omid S Jahromi May 2007:**

*Multirate Statistical Signal Processing* Omid S. Jahromi, 2007-05-15 The field of multirate signal processing has witnessed a great deal of progress and an increasingly wide range of applications since the publication of the first textbook by Crochiere and Rabiner 1983. However, this progress has been mainly in the area of deterministic systems with emphasis on perfect reconstruction and orthogonal systems. This book introduces a statistical theory for extracting information from signals that have different sampling rates. This new theory generalizes the conventional deterministic theory of multirate systems beyond many of its constraints. Furthermore, it allows for the formulation of several new problems such as spectrum estimation, time delay estimation, and sensor fusion in the realm of multirate signal processing. I have arrived at the theory presented here by integrating concepts from diverse areas such as information theory, inverse problems, and theory of equalities. The process of merging a variety of concepts of different origin results in both merits and shortcomings. The former include the fresh and differentiated view of an amateur providing scope of application. The latter include a lack of in-depth experience in each of the original fields. Granted, this may lead to gaps in continuity; however, it goes without saying that a complete theory can seldom be achieved by one person and in a short time. My goal in writing this book has been to inspire the reader to initiate his own research and add to the theory of multirate statistical signal processing.

*Theory of Multirate Statistical Signal Processing [microform]* Omid S. (Omid Siuof) Jahromi, 2002

*Theory of Multirate Statistical Signal Processing and Applications*, 2005 This dissertation develops basic theory and applications of statistical multirate signal processing. Specific tools and terminology for describing multirate systems in the time and frequency domains are presented. An optimal multirate estimator is derived in both a direct form and recursive form. The Recursive form of the optimal estimator allows calculation of the relative change in performance when input signals are added or removed from the multirate system. The optimal multirate filtering problem also is specialized to the case of optimal multirate linear prediction. An efficient method for calculating the multirate linear prediction coefficients and error variances is developed through the use of the multichannel Levinson recursion and generalized triangular UL factorization. Finally, a multirate sequential classifier is derived and applied to the problem of target classification. It is shown that classifier parameters needed for implementing the multirate sequential classifier are the same as those for multirate linear prediction. The methods presented in this dissertation are useful for multisensor fusion, particularly when the sensors are operating at different rates.

*Multirate Signal Processing for Communication Systems* Fredric J. Harris, 2022-09-01 Multirate signal processing can improve system performance and reduce costs in applications ranging from laboratory instruments, cable modems, wireless systems, satellites, Radar, Sonar, and consumer entertainment products. This second edition continues to offer a systematic, clear, and intuitive introduction to multirate signal processing for working engineers and system designers. Significant new material and fresh concepts, including Green Signal Processing techniques, have been introduced. The author uses extensive examples and figures to

illustrate a wide range of multirate techniques from basic resampling to leading edge cascade and multi stage filter structures Along the way he draws on extensive research and consulting experience to introduce processing tricks shown to maximize performance and efficiency Coverage includes Effect of sampling and resampling in time and frequency domains Relationships between FIR filter specifications and filter length of taps Window design and equal ripple Remez design techniques Square Root Nyquist and Half band Filters including new enhancements Polyphase FIR filters up sampling down sampling Polyphase M path analysis and synthesis channelizers and cascade pairs Polyphase interpolators for arbitrary sample rate changes Dyadic half band filters quadrature mirror filters Channel banks for multiple arbitrary bandwidths and center frequencies Comprehensive coverage of recursive all pass filters and channelizers non uniform and uniform phase mixed recursive and non recursive Comparisons with traditional DSP designs Extensive applications coverage throughout

Statistical Signal Processing Swagata Nandi,Debasis Kundu,2021-08-22 This book introduces readers to various signal processing models that have been used in analyzing periodic data and discusses the statistical and computational methods involved Signal processing can broadly be considered to be the recovery of information from physical observations The received signals are usually disturbed by thermal electrical atmospheric or intentional interferences and due to their random nature statistical techniques play an important role in their analysis Statistics is also used in the formulation of appropriate models to describe the behavior of systems the development of appropriate techniques for estimation of model parameters and the assessment of the model performances Analyzing different real world data sets to illustrate how different models can be used in practice and highlighting open problems for future research the book is a valuable resource for senior undergraduate and graduate students specializing in mathematics or statistics      **Fundamentals of Statistical Signal Processing** Steven M. Kay,2010

The Top Books of the Year Multirate Statistical Signal Processing Author Omid S Jahromi May 2007 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Pappen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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