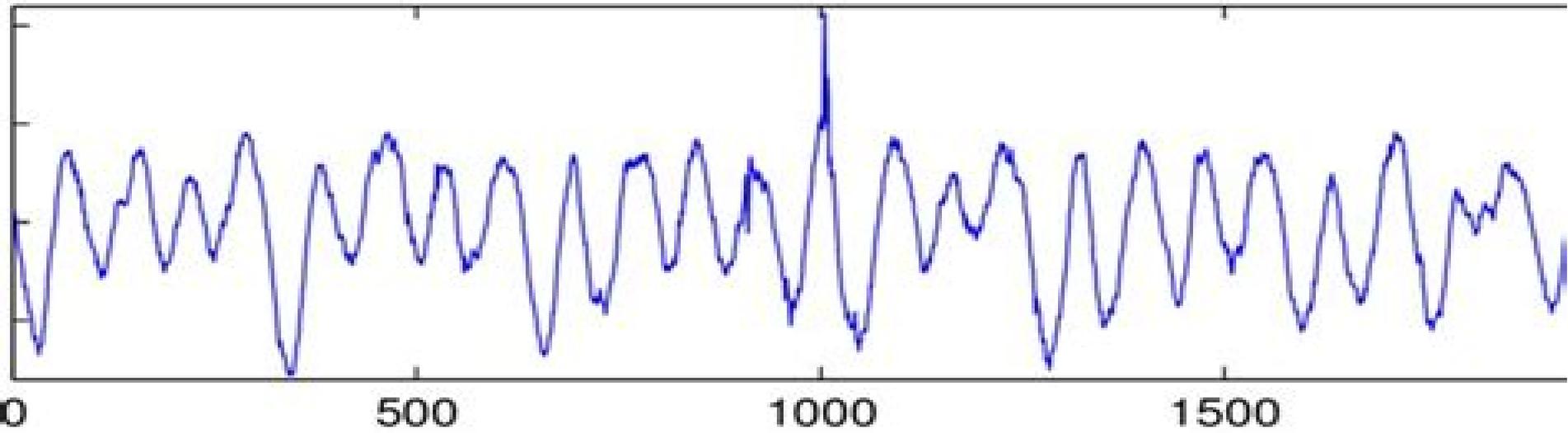
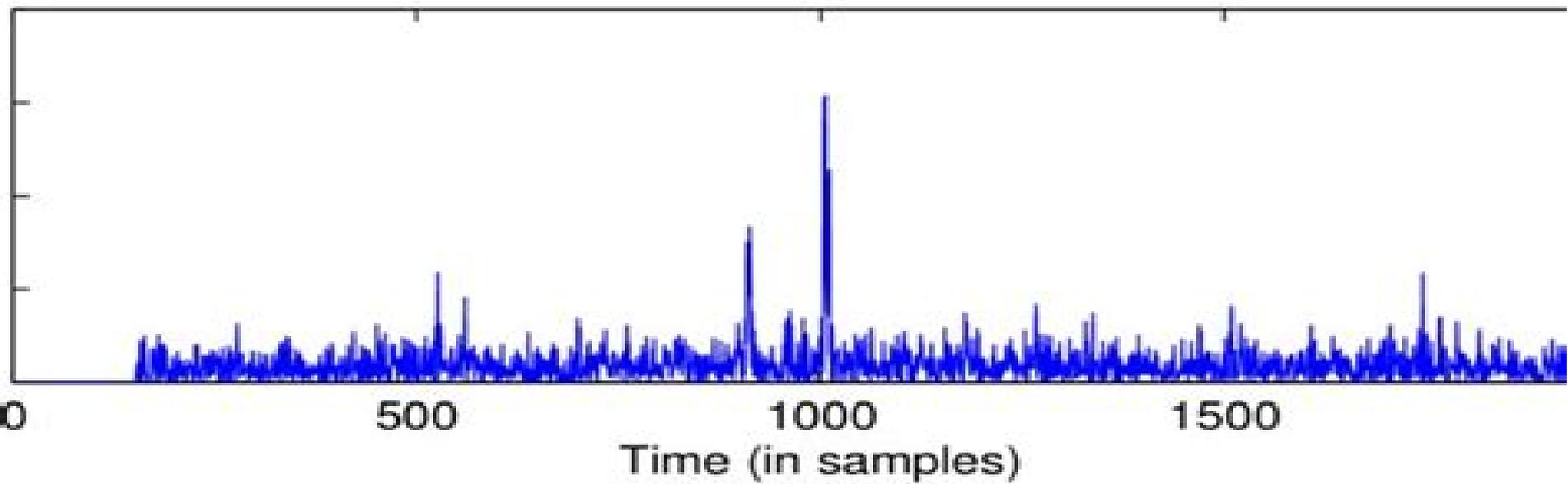


Audio signal x_t



Detection signal $|d_t|$



Detection Of Signals In Noise

Vyacheslav Tuzlukov

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Detection Of Signals In Noise:

Detection of Signals in Noise Robert N. McDonough, A. D. Whalen, 1995-05-02 The Second Edition is an updated revision to the authors highly successful and widely used introduction to the principles and application of the statistical theory of signal detection This book emphasizes those theories that have been found to be particularly useful in practice including principles applied to detection problems encountered in digital communications radar and sonar Detection processing based upon the fast Fourier transform

Signal Detection in Non-Gaussian Noise Saleem A. Kassam, 2012-12-06 This book contains a unified treatment of a class of problems of signal detection theory This is the detection of signals in additive noise which is not required to have Gaussian probability density functions in its statistical description For the most part the material developed here can be classified as belonging to the general body of results of parametric theory Thus the probability density functions of the observations are assumed to be known at least to within a finite number of unknown parameters in a known functional form Of course the focus is on noise which is not Gaussian results for Gaussian noise in the problems treated here become special cases The contents also form a bridge between the classical results of signal detection in Gaussian noise and those of nonparametric and robust signal detection which are not considered in this book Three canonical problems of signal detection in additive noise are covered here These allow between them formulation of a range of specific detection problems arising in applications such as radar and sonar binary signaling and pattern recognition and classification The simplest to state and perhaps the most widely studied of all is the problem of detecting a completely known deterministic signal in noise Also considered here is the detection random non deterministic signal in noise Both of these situations may arise for observation processes of the low pass type and also for processes of the band pass type

Signal Detection in Non-gaussian Noise Saleem A. Kassam, John Bowman Thomas, 1988 *Signal Detection in Non-Gaussian Noise* Saleem A Kassam, John B Thomas, 1987-12-01 Signal Detection Theory Vyacheslav P. Tuzlukov, 2013-03-14 Increasing the noise immunity of complex signal processing systems is the main problem in various areas of signal processing At the present time there are many books and periodical articles devoted to signal detection but many important problems remain to be solved New approaches to complex problems allow us not only to summarize investigations but also to improve the quality of signal detection in noise This book is devoted to fundamental problems in the generalized approach to signal processing in noise based on a seemingly abstract idea the introduction of an additional noise source that does not carry any information about the signal in order to improve the qualitative performance of complex signal processing systems Theoretical and experimental studies carried out by the author lead to the conclusion that the proposed generalized approach to signal processing in noise allows us to formulate a decision making rule based on the determination of the jointly sufficient statistics of the mean and variance of the likelihood function or functional Classical and modern signal detection theories allow us to define only the sufficient statistic of the mean of the likelihood function or functional The

presence of additional information about the statistical characteristics of the likelihood function or functional leads to better quality signal detection in comparison with the optimal signal detection algorithms of classical and modern theories

Statistical Theory of Signal Detection Carl W. Helstrom, 1960 *Elementary Signal Detection Theory* Thomas D. Wickens, 2001-10-11 Signal detection theory as developed in electrical engineering and based on statistical decision theory was first applied to human sensory discrimination about 40 years ago The theory's intent was to explain how humans discriminate and how we might use reliable measures to quantify this ability An interesting finding of this work is that decisions are involved even in the simplest of discrimination tasks say determining whether or not a sound has been heard a yes no decision Detection theory has been applied to a host of varied problems for example measuring the accuracy of diagnostic systems survey research reliability of lie detection tests and extends far beyond the detection of signals This book is a primer on signal detection theory useful for both undergraduates and graduate students *Operating Characteristics for Maximum Likelihood Detection of Signals in Gaussian Noise of Unknown Level* Albert H. Nuttall, Peter G. Cable, 1972

Nonparametric Detection of Signals Causing Arbitrary Changes in the Accompanying Noise Backgrounds John Joseph Komo, 1966 The detection of signals in the presence of noise is an important problem in the field of communications The detection problem is concerned with the design of systems which determine only the presence or absence of a signal which occurs with background noise An example of considerable importance which is encountered quite frequently in practice is the radar detection problem In the radar problem it is desired to determine the presence of a target by detecting the presence of a radar return signal in noise Another example is the seismic exploration problem which utilizes the detection of reflected signals from different depths of rock formations In the past most of the work in signal detection has been limited to situations in which the signals were assumed to be of known deterministic form and the noise was assumed to be of known statistical form This type of detection which deals with signals and noise of known form will be denoted as parametric detection 2 In some detection problems the information required by the detectors may be available However in other situations there may be much less information for example the statistical form of the noise may be unknown In such cases the parametric detectors become inappropriate Thus there is a need for a theory of detection systems which require much less a priori information than the parametric detectors This detector when the signal and noise are not completely known is called a nonparametric detector 2 The nonparametric detector originates from nonparametric statistical methods which are well covered in the literature 15 48 These nonparametric statistical methods nonparametric detectors have previously been applied to the problem of signal detection 6 14 but not nearly as extensively as the parametric detectors These nonparametric detectors however have been limited to the detection of signals which only change the dc level of the noise distribution when the signals are added to the noise In this paper nonparametric detectors will be considered which not only will detect one specific class of signals for example signals which change the dc level of the noise distribution but in general

will detect signals which change the noise distribution in any respect The signals will be assumed to be of the familiar additive variety 60 Using the goodness criterion of Asymptotic Relative Efficiency A R E 9 10 14 20 these nonparametric detectors are compared to the corresponding optimum parametric detectors which are optimum in gaussian noise and gaussian signal plus noise The A R E of one detector with respect to another is an indication of how many more sample points on the observation interval one detector requires than the other to detect a weak signal with the same error levels For a given noise distribution and a given signal plus noise distribution the optimum detector is defined as that detector which requires the least number of sample points to achieve the desired accuracy After the theory of these nonparametric detectors is developed a nonparametric detector is used for the detection of a Frequency Modulated FM signal 49 59 in the presence of background noise under conditions of low **Detection of Signals in White Noise** Paul Steele Niswander,1964

Extraction of Signals from Noise Lev Al'bertovich Vaĭnshteĭn,V. D. Zubakov,1962 *Principles of Signal Detection and Parameter Estimation* Bernard C. Levy,2008-07-07 This textbook provides a comprehensive and current understanding of signal detection and estimation including problems and solutions for each chapter Signal detection plays an important role in fields such as radar sonar digital communications image processing and failure detection The book explores both Gaussian detection and detection of Markov chains presenting a unified treatment of coding and modulation topics Addresses asymptotic of tests with the theory of large deviations and robust detection This text is appropriate for students of Electrical Engineering in graduate courses in Signal Detection and Estimation Detection of a Low Level Signal in Noise by Tegulometric Methods Kiefer Ault Tobin,NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF.,1976 A novel and sensitive method is described for the analysis and detection of weak signals generated by many sources and highly contaminated by noise This process yields a spectral display whose elements are related to the probability of occurrence of a frequency rather than to the power spectral density of conventional schemes Thus a weak signal and stronger signals may show equally if they appear over the same percentage of the analysis period This process called tegulometric analysis is tested and improved in sensitivity for detection of very weak signals hidden in gaussian noise The investigation shows that this method can be optimized to produce low level signal detections based upon short observational periods The frequency resolution capability of the method is shown to be marked Applications to acoustic signal detection are discussed However since electromagnetic signals suffer many of the same interference problems to which acoustic signals are subjected it is expected that tegulometric analysis should have equal value to radar communications ESM and other low signal to noise applications

Advanced Theory of Signal Detection Ickho Song,Jinsoo Bae,Sun Yong Kim,2013-03-09 We have some time ago noticed that finding a book dealing with topics in the ad vanced theory and applications of signal detection is not quite an easy matter This is contrasted with that there are numerous books on the more general subject of de tecton and estimation Frankly ourexperience and expertise is only on some partial portions of the theory and recent topics of signal detection This

book is therefore meant to include not all the advanced and interesting topics in the theory and applications of signal detection but just only some subsets of them some such important and interesting topics and issues as distributed signal detection and sequential detection are not considered only due to our limited knowledge and capacity The goal we have in mind for this book is to present several advanced topics in signal detection theory and thereby help readers gain novel ideas and insights In this book we have tried to completely present in a unified way the theme of locally optimum detection of signals in generalized observations Among our hope is thus that the readers would be able to understand the concepts and fundamentals of a generalized observation model as applied to signal detection problems This book will also allow the readers whether they are students academics practitioners or researchers to have an expanded view on signal detection

Signal Processing Noise Vyacheslav Tuzlukov, 2018-10-08 Additive and multiplicative noise in the information signal can significantly limit the potential of complex signal processing systems especially when those systems use signals with complex phase structure During the last few years this problem has been the focus of much research and its solution could lead to profound improvements in applications of complex signals and coherent signal processing *Signal Processing Noise* sets forth a generalized approach to signal processing in multiplicative and additive noise that represents a remarkable advance in signal processing and detection theory This approach extends the boundaries of the noise immunity set by classical and modern signal processing theories and systems constructed on this basis achieve better detection performance than that of systems currently in use Featuring the results of the author's own research the book is filled with examples and applications and each chapter contains an analysis of recent observations obtained by computer modelling and experiments Tables and illustrations clearly show the superiority of the generalized approach over both classical and modern approaches to signal processing noise Addressing a fundamental problem in complex signal processing systems this book offers not only theoretical development but practical recommendations for raising noise immunity in a wide range of applications

Statistical Theory of Signal Detection Carl W. Helstrom, 2013-10-22 *Statistical Theory of Signal Detection* Second Edition provides an elementary introduction to the theory of statistical testing of hypotheses that is related to the detection of signals in radar and communications technology This book presents a comprehensive survey of digital communication systems Organized into 11 chapters this edition begins with an overview of the theory of signal detection and the typical detection problem This text then examines the goals of the detection system which are defined through an analogy with the testing of statistical hypotheses Other chapters consider the noise fluctuations in terms of probability distributions whereby the statistical information is used to design a receiver that attains the maximum rate of successful detections in a long series of trials This book discusses as well the criteria of success and failure in statistical situations The final chapter deals with the types of stochastic signals This book is a valuable resource for mathematicians and engineers

Detection Theory Ralph D. Hippenstiel, 2017-12-19 Using simplified notation and a practical approach *Detection Theory Applications and Digital*

Signal Processing introduces the principles of detection theory the necessary mathematics and basic signal processing methods along with some recently developed statistical techniques Throughout the book the author keeps the needs of practicing engineers firmly in mind His presentation and choice of topics allows students to quickly become familiar with the detection and signal processing fields and move on to more advanced study and practice The author also presents many applications and wide ranging examples that demonstrate how to apply the concepts to real world problems

A Primer of Signal Detection Theory Don McNicol, 2005-01-15 A Primer of Signal Detection Theory is being reprinted to fill the gap in literature on Signal Detection Theory a theory that is still important in psychology hearing vision audiology and related subjects This book is intended to present the methods of Signal Detection Theory to a person with a basic mathematical background It assumes knowledge only of elementary algebra and elementary statistics Symbols and terminology are kept at a basic level so that the eventual and hoped for transfer to a more advanced text will be accomplished as easily as possible Intended for undergraduate students at an introductory level the book is divided into two sections The first part introduces the basic ideas of detection theory and its fundamental measures Its aim is to enable the reader to be able to understand and compute these measures It concludes with a detailed analysis of a typical experiment and a discussion of some of the problems which can arise for the potential user of detection theory The second section considers three more advanced topics threshold theory the extension of detection theory and an examination of Thurstonian scaling procedures

Detection and Estimation of Signals in Noise Murray G. Wood, 1969

Detection of Low-Level Optical Signals M.A. Trishenkov, 2012-12-06 This book is addressed to designers of photodetectors and photodetecting systems designers of focal plane arrays charge coupled devices specialists in IR technologies designers of optoelectronic detecting guiding and tracking systems systems for IR direction finders lidars lightwave communication systems IR imagers All these specialists are united by one common purpose they are all striving to catch the weakest possible optical signal The most important characteristic of photosensitive devices is their detectivity which determines the lowest level of optical signal they are able to detect above the noise level These threshold characteristics define the most important tactical and technical parameters of the entire optoelectronic system such as its range resolution precision The threshold characteristics of optoelectronic system depend on many of its components all designers agree however that the critically responsible part of the system is the photodetector

1 By the end of the 1960s the physicists and the engineers were able to overcome many obstacles and to create photodetectors at least single element or few element ones which covered all the main optical bands 0.4 2 2.3 3 5 8 14 μm carried out the detection almost without any loss the quantum yield being as high as 0.7 0.9 and reduced the noise level to the lowest possible limit

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