

SIGNAL DETECTION THEORY

Signal Detection Theory (SDT) is an informative model for understanding how humans make decisions based on sensory input.

DEFINITION

SDT looks at how humans make a decision based on the strength of a signal and their confidence of what they heard. According to Kelly and Hahn (2019), SDT "is used when psychologists want to measure the way we make decisions under conditions of uncertainty, such as how we would perceive distances in foggy conditions" (p. 159).

OUTCOMES

Signal detection theory (SDT) predicts four possible outcomes that can occur in a detection task, depending on whether the observer responds "yes" or "no" to the presence of a signal. These outcomes are:

- Hit
- Miss
- False alarm
- Correct rejection

Detection Theory

Neil A. Macmillan, C. Douglas Creelman



Detection Theory:

Detection Theory Neil A. Macmillan, C. Douglas Creelman, 2004-09-22 Detection Theory is an introduction to one of the most important tools for analysis of data where choices must be made and performance is not perfect Originally developed for evaluation of electronic detection detection theory was adopted by psychologists as a way to understand sensory decision making then embraced by students of human memory It has since been utilized in areas as diverse as animal behavior and X ray diagnosis This book covers the basic principles of detection theory with separate initial chapters on measuring detection and evaluating decision criteria Some other features include complete tools for application including flowcharts tables pointers and software student friendly language complete coverage of content area including both one dimensional and multidimensional models separate systematic coverage of sensitivity and response bias measurement integrated treatment of threshold and nonparametric approaches an organized tutorial level introduction to multidimensional detection theory popular discrimination paradigms presented as applications of multidimensional detection theory and a new chapter on ideal observers and an updated chapter on adaptive threshold measurement This up to date summary of signal detection theory is both a self contained reference work for users and a readable text for graduate students and other researchers learning the material either in courses or on their own *Signal Detection Theory and Psychophysics* David Marvin Green, John A. Swets, 1988-01 The book summarizes the application of signal detection theory to the analysis an measurement of human observer s sensor system The theory provides a way to analyze what had been called the threshold or sensory limen the basic unit of all discrimination studies whether human or animal The book outlines the theory of statistical decision making and its application to a variety of common psychophysical processes It shows how signal detection theory can be used to separate sensory and decision aspects of responses in discrimination The concepts of the ideal observer and energy detector are presented and compared with human auditory detection data Signal detection theory is applied to a variety of other substantive problems in sensory psychology *Signal Detection Theory and Psychology* is an invaluable book for psychologists dealing with sensory perception especially auditory for psychologists studying discrimination in other cognitive processes and for human factor engineers dealing with man machine interfaces **Elementary Signal Detection Theory** Thomas D. Wickens, 2002 Detection theory has been applied to a host of varied problems for example measuring the accuracy of diagnostic systems or reliability of lie detection tests and extends far beyond the detection of signals This book is a primer on the subject 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 This book is being reprinted to fill in the gap in literature on Signal Detection Theory a theory that is still important in psychology hearing vision audiology and related subjects There are a few books at the introductory level for undergraduates

Signal Detection Theory and ROC-analysis James P. Egan, 1975

Signal Detection Theory Viacheslav Petrovich Tuzlukov, 2001 This new text reference is a comprehensive presentation of fundamental problems for the generalized approach to signal detection theory New approaches and methods are discussed as well as experimental results with physical systems An essential resource for professionals and researchers in electrical engineering and working with modern signal detection problems in radar communications wireless communications acoustics remote sensing and geophysical signal processing The problem of noise immunity is a key problem for complex signal processing systems research in science and engineering New approaches and problems of such complexity study allows the development of a better quality of signal detection in noise This book is devoted to a new generalized approach to signal detection theory The main purpose is to present the basic fundamental concepts of the generalized approach to signal processing in noise and to show how it may be applied in various areas of signal processing The generalized approach allows extension of the well known boundaries of the potential noise immunity set up by classical and modern signal detection theories New approaches for construction of detec

Detection Theory Michael J. Hautus, Neil A. Macmillan, C. Douglas Creelman, 2021-09-27 Detection Theory A User's Guide is an introduction to one of the most important tools for the analysis of data where choices must be made and performance is not perfect In these cases detection theory can transform judgments about subjective experiences such as perceptions and memories into quantitative data ready for analysis and modeling For beginners the first three chapters introduce measuring detection and discrimination evaluating decision criteria and the utility of receiver operating characteristics Later chapters cover more advanced research paradigms including complete tools for application including flowcharts tables and software student friendly language complete coverage of content area including both one dimensional and multidimensional models integrated treatment of threshold and nonparametric approaches an organized tutorial level introduction to multidimensional detection theory and popular discrimination paradigms presented as applications of multidimensional detection theory This modern summary of signal detection theory is both a self contained reference work for users and a readable text for graduate students and researchers learning the material either in courses or on their own

Detection Theory Neil A. Macmillan, C. Douglas Creelman, 2004-09-22 Detection Theory is an introduction to one of the most important tools for analysis of data where choices must be made and performance is not perfect Originally developed for evaluation of electronic detection theory was adopted by psychologists as a way to understand sensory decision making then embraced by students of human memory It has since been utilized in areas as diverse as animal behavior and X ray diagnosis This book covers the

basic principles of detection theory with separate initial chapters on measuring detection and evaluating decision criteria. Some other features include complete tools for application including flowcharts, tables, pointers, and software, student-friendly language, complete coverage of content area including both one-dimensional and multidimensional models, separate systematic coverage of sensitivity and response bias measurement, integrated treatment of threshold and nonparametric approaches, an organized tutorial-level introduction to multidimensional detection theory, popular discrimination paradigms presented as applications of multidimensional detection theory, and a new chapter on ideal observers and an updated chapter on adaptive threshold measurement. This up-to-date summary of signal detection theory is both a self-contained reference work for users and a readable text for graduate students and other researchers learning the material either in courses or on their own.

Fundamentals of Statistical Signal Processing: Detection Theory Steven M. Kay, 1993 **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.

Signal Detection Theory John C. Hancock, Paul A. Wintz, 1966. Written as a second course for graduate students.

Signal Detection Theory Vyacheslav P. Tuzlukov, 2012-11-01. 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

A Primer of Signal Detection Theory D. MacNicol, 1972 Advanced Theory of Signal Detection Iickho Song, Jinsoo Bae, Sun Yong Ki, Sun Yong Kim, 2002-03-26 This book contains a number of problems of signal detection theory A generalized observation model for signal detection problems is included The model includes several interesting and common special cases such as those describing additive noise multiplicative noise and signal dependent noise The model can also describe composite signals in addition to the usual known deterministic signals and random stochastic signals Locally optimum LO and locally optimum rank LOR detectors for known and random signals in the model are discussed and original results are obtained Other approaches to detection of signals are also discussed

A Primer of Signal Detection Theory D. McNicol, 1972 The book is divided into two main sections the first comprising Chapters 1 to 5 and the second Chapters 6 to 8 The first section introduces the basic ideas of detection theory and its fundamental measures The aim is to enable the reader to be able to understand and compute these measures The section ends with a detailed working through 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 The first of these which is treated thoroughly elsewhere in the literature is threshold theory The second topic concerns the extension of detection theory which customarily requires experiments using more open ended procedures such as recall and the third topic is an examination of Thurstonian scaling procedures which extend signal detection theory in a number of useful ways

Signal Detection Theory and ROC Analysis in Psychology and Diagnostics John A. Swets, 2014-02-25 Signal detection theory as developed in electrical engineering and based on statistical decision theory was first applied to human sensory discrimination 40 years ago The theoretical intent was to provide a valid model of the discrimination process the methodological intent was to provide reliable measures of discrimination acuity in specific sensory tasks An analytic method of detection theory called the relative operating characteristic ROC can isolate the effect of the placement of the decision criterion which may be variable and idiosyncratic so that a pure measure of intrinsic discrimination acuity is obtained For the past 20 years ROC analysis has also been used to measure the discrimination acuity or inherent accuracy of a broad range of practical diagnostic systems It was widely adopted by methodologists in the field of information retrieval is increasingly used in weather forecasting and is the generally preferred method in clinical medicine primarily in radiology This book attends to both themes ROC analysis in the psychology laboratory and in practical diagnostic settings and to their essential unity The focus of this book is on detection and recognition as fundamental tasks that underlie most complex behaviors As defined here they serve to distinguish between two alternative confusable stimulus categories which may be perceptual or cognitive categories in the psychology laboratory or different states of the world in practical diagnostic tasks This book on signal detection theory in psychology was

written by one of the developers of the theory who co authored with D M Green the classic work published in this area in 1966 reprinted in 1974 and 1988 This volume reviews the history of the theory in engineering statistics and psychology leading to the separate measurement of the two independent factors in all discrimination tasks discrimination acuity and decision criterion It extends the previous book to show how in several areas of psychology in vigilance and memory what had been thought to be discrimination effects were in reality effects of a changing criterion The book shows that data plotted in terms of the relative operating characteristic have essentially the same form across the wide range of discrimination tasks in psychology It develops the implications of this ROC form for measures of discrimination acuity pointing up the valid ones and identifying several common but invalid ones The area under the binormal ROC is seen to be supported by the data the popular measures d and percent correct are not An appendix describes the best current programs for fitting ROCs and estimating their parameters indices and standard errors The application of ROC analysis to diagnostic tasks is also described Diagnostic accuracy in a wide range of tasks can be expressed in terms of the ROC area index Choosing the appropriate decision criterion for a given diagnostic setting rather than considering some single criterion to be natural and fixed has a major impact on the efficacy of a diagnostic process or system Illustrated here by separate chapters are diagnostic systems in radiology information retrieval aptitude testing survey research and environments in which imminent dangerous conditions must be detected Data from weather forecasting blood testing and polygraph lie detection are also reported One of these chapters describes a general approach to enhancing the accuracy of diagnostic systems

Signal Detection Theory and the Diagnosis of Learning Disabilities Valerie E. Tolbert, 2005 *Detection and Estimation Theory and Its Applications* Thomas A. Schonhoff, Arthur Anthony Giordano, 2006 For courses in Estimation and Detection Theory offered in departments of Electrical Engineering This is the first student friendly textbook to comprehensively address the topics of both detection and estimation with a thorough discussion of the underlying theory as well as the practical applications By addressing detection and estimation theory in the same volume the authors encourage a greater appreciation of the strong coupling and often blurring of these fields of study In order to modernize classical topics the text focuses on discrete signal processing with continuous signal presentations included to demonstrate uniformity and consistency of the results

Statistical Theory of Signal Detection Carl W. Helstrom, 1960

Detection Theory Book Review: Unveiling the Power of Words

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