

# 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

**D. MacNicol**



## **Detection Theory:**

*Detection Theory* Neil A. Macmillan, C. Douglas Creelman, 1991-01-25      **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      *Signal Detection Theory and Psychophysics* David M. Green, John A. Swets, 1966      *Signal Detection Theory and ROC-analysis* James P. Egan, 1975      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 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      **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 **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** Viatcheslav 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* 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

**Advanced Theory of Signal Detection** Ickho 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. MacNicol,1972      Fundamentals of Statistical Signal Processing: Detection theory Steven M. Kay,1998 V 2 Detection theory V 1 Estimation theory      *Signal Detection Theory* John C. Hancock,Paul A. Wintz,1966 Written as a second course for graduate students      Signal Detection Theory and the Diagnosis of Learning Disabilities Valerie E. Tolbert,2005      Signal Detection Michael L. Commons,John A. Nevin,Michael C. Davison,2013-09-05 This volume is based on the 10th annual Harvard Symposium for the Quantitative Analysis of Behavior The first Harvard Symposium was devoted to signal detection analyses of reinforcement and choice behavior The present volume reprises the original signal detection theme incorporating additional insights based on experimental and theoretical analyses undertaken during the years separating the two conferences This collection illustrates how signal detection theory first advanced to account for performance in threshold level sensory discrimination has broadened to encompass a variety of psychological problems involving discriminations between confusable stimuli The approach is quantitative in its emphasis on estimation of independent parameters of the discrimination process and analytical in its efforts to separate the determiners of discriminability and bias and to identify the mechanisms of their operation Above all the book is broadly integrative in its approach to diverse problems This volume is based on the 10th annual Harvard Symposium for the Quantitative Analysis of Behavior The first Harvard Symposium was devoted to signal detection analyses of reinforcement and choice behavior The present volume reprises the original signal detection theme incorporating additional insights based on experimental and theoretical analyses undertaken during the years separating the two conferences      **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**, 2012      **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

### **Modern Radar Detection**

**Theory** Antonio De Maio, Maria Sabrina Greco, 2015-11-25 Modern radar detection is the new frontier for advanced radar systems capable of operating in challenging scenarios with a plurality of interference sources both manmade and natural Written by top researchers and recognized leaders in the field this is the first book to provide a comprehensive understanding of the current research trends in modern radar detection It updates readers with the latest radar signal processing algorithms now capable with high speed computer chips and sophisticated programs It also includes examples and applications from real systems This is essential reading for radar systems design engineers within aerospace companies military radar engineers and aerospace contractors consultants

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## **Table of Contents Detection Theory**

1. Understanding the eBook Detection Theory
  - The Rise of Digital Reading Detection Theory
  - Advantages of eBooks Over Traditional Books
2. Identifying Detection Theory
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Detection Theory
  - User-Friendly Interface
4. Exploring eBook Recommendations from Detection Theory
  - Personalized Recommendations
  - Detection Theory User Reviews and Ratings
  - Detection Theory and Bestseller Lists
5. Accessing Detection Theory Free and Paid eBooks
  - Detection Theory Public Domain eBooks
  - Detection Theory eBook Subscription Services



- Detection Theory Budget-Friendly Options
- 6. Navigating Detection Theory eBook Formats
  - ePub, PDF, MOBI, and More
  - Detection Theory Compatibility with Devices
  - Detection Theory Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Detection Theory
  - Highlighting and Note-Taking Detection Theory
  - Interactive Elements Detection Theory
- 8. Staying Engaged with Detection Theory
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Detection Theory
- 9. Balancing eBooks and Physical Books Detection Theory
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Detection Theory
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Detection Theory
  - Setting Reading Goals Detection Theory
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Detection Theory
  - Fact-Checking eBook Content of Detection Theory
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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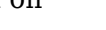


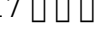


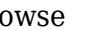






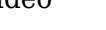




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