

Elementary Signal Detection Theory

Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience, Methodology 2018-03-13 V. Methodology: E. J. Wagenmakers (Volume Editor) Topics covered include methods and models in categorization; cultural consensus theory; network models for clinical psychology; response time modeling; analyzing neural time series data; models and methods for reinforcement learning; convergent methods of memory research; theories for discriminating signal from noise; bayesian cognitive modeling; mathematical modeling in cognition and cognitive neuroscience; the stop-signal paradigm; hypothesis testing and statistical inference; model comparison in psychology; fmri; neural recordings; open science; neural networks and neurocomputational modeling; serial versus parallel processing; methods in psychophysics.

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.

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 the Diagnosis of Learning Disabilities

Valerie E. Tolbert 2005

New Handbook of Mathematical Psychology: Volume 3, Perceptual and Cognitive Processes F. Gregory Ashby 2023-04-27

The field of mathematical psychology began in the 1950s and includes both psychological theorizing, in which mathematics plays a key role, and applied mathematics motivated by substantive problems in psychology. Central to its success was the publication of the first Handbook of Mathematical Psychology in the 1960s. The psychological sciences have since expanded to include new areas of research, and significant advances have been made both in traditional psychological domains and in the applications of the computational sciences to psychology. Upholding the rigor of the original Handbook, the New Handbook of Mathematical Psychology reflects the current state of the field by exploring the mathematical and computational foundations of new developments over the last half-century. The third volume provides up-to-date, foundational chapters on early vision, psychophysics and scaling, multisensory integration, learning and memory, cognitive control, approximate Bayesian computation, and encoding models in neuroimaging.

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

Decision and Game Theory for Security Tansu Alpcan 2019-10-23

This book constitutes the refereed proceedings of the 10th International Conference on Decision and Game Theory for Security, GameSec 2019, held in Stockholm, Sweden, in October 2019. The 21 full papers presented together with 11 short papers were carefully reviewed and

selected from 47 submissions. The papers focus on protection of heterogeneous, large-scale and dynamic cyber-physical systems as well as managing security risks faced by critical infrastructures through rigorous and practically-relevant analytical methods.

Psychophysics Frederick A.A. Kingdom 2016-01-04 Psychophysics: A Practical Introduction, Second Edition, is the primary scientific tool for understanding how the physical world of colors, sounds, odors, movements, and shapes translates into the sensory world of sight, hearing, touch, taste, and smell; in other words, how matter translates into mind. This timely revision provides a unique introduction to the techniques for researching and understanding how the brain translates the external physical world to the internal world of sensation. The revision expands and refines coverage of the basic tools of psychophysics research and better integrates the theory with the supporting software. The new edition continues to be the only book to combine, in a single volume, the principles underlying the science of psychophysical measurement and the practical tools necessary to analyze data from psychophysical experiments. The book, written in a tutorial style, will appeal to new researchers as well as to seasoned veterans. This introduction to psychophysics research methods will be of interest to students, scholars and researchers within sensory neuroscience, vision research, behavioral neuroscience, and the cognitive sciences. - Presents a large variety of analytical methods explained for the non-expert - Provides a novel classification scheme for psychophysics experiments - Disseminates the pros and cons of different psychophysical procedures - Contains practical tips for designing psychophysical experiments

The Oxford Handbook of Cognitive Engineering John D. Lee 2013-03-07 This handbook is the first to provide comprehensive coverage of original state-of-the-science research, analysis, and design of integrated, human-technology systems.

Learning and Memory: Cognitive psychology of memory John H. Byrne 2008

The Psychobiology of Aging Donald G. Stein 1980

Statistical Theory of Signal Detection Carl W. Helstrom 1960

Mental Illness Stigma and Perceptions of Dangerousness Fred Loya 2008

Algorithms for Synthetic Aperture Radar Imagery 2005

Signal Detection Theory and Psychophysics David Marvin Green 1974

Human Factors in the U.S. Railroad Industry Thomas G. Raslear 2025-03-13 At the heart of the U.S. Railroad Industry are human operators who continue to make it work and operate. However, humans are susceptible to error, fatigue, and risky behaviors. Understanding how these impact the safety of the industry remains a crucial topic to be studied. Human Factors in the U.S. Railroad Industry investigates the human factor behind one of the world's biggest railway networks and synthesizes the body of research that has been produced by the Federal Railroad Administration (FRA) on Human Factors in the Railroad industry since 1993. During that time, over 120 FRA reports were published on topics such as accident analysis, grade crossing safety and trespassing, working conditions and ergonomics, employee fatigue, safety culture, and track inspection. This book organizes this body of work into topic areas that correspond to Moray's Sociotechnical System (2006) to provide a comprehensive way to understand the relationship between policy, organizational culture, and system safety. It discusses tools such as risk exposure, signal detection theory, and program evaluation that have been applied to railroad projects and can be used to improve future railroad and transportation research. It provides a synthesis of the reports across topic areas such as fatigue, ergonomics, and safety culture that are currently important within the wider human factors transportation research community. The reader will develop an understanding of a "human-centered systems" approach to the railroad industry, which focuses on human capabilities and limitations with respect to human/system interfaces, operations, system integration, and organizational influences on safety. Human Factors in the U.S. Railroad Industry will appeal to researchers, academics, students, and professionals interested in human factors, railway engineering, civil engineering, and industrial engineering.

The Theory of Teaching and Elementary Psychology Albert

Salisbury 1905 "This treatise, if such it may be called, is professedly of a rudimentary character; it is designed for beginners in the study of educational psychology and pedagogy. Its purpose is only to lay a foundation for such study, to open up the subject and give the student the necessary tools for working the field of pedagogical thought. For nearly twenty years, the writer has taken in hand, twice in each year, a class of pupils in the second year of the normal school course with this purpose of inducting them into the elements of pedagogical theory. Finding no text-book in existence suitable to his view of such an undertaking, he was compelled to give the instruction in an oral, "Socratic," conversational manner, using books only for occasional reference. The time has now come, as it seems to him, for reducing this work to written form, with a view to economizing the time of future pupils, and in the hope that it may serve a useful purpose to young teachers in their daily work or as members of circles for professional reading and study. The peculiar form and arrangement given to the matter of this book are thus the outgrowth of long experience and direct contact with students as yet unused to introspection or to abstract thought. The writer, as a teacher, has sought continually to find the natural methods of approach and the natural lines of progress in the development of a pedagogical attitude of mind, without too much regard to traditional modes, and yet with a careful avoidance of eccentricity or intentional novelty. Clearness and conciseness have been a constant aim. It is believed that the book is well suited as a text-book in either theory of teaching or elementary psychology"--Preface. (PsycINFO Database Record (c) 2013 APA, all rights reserved).

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

Revealed Confidence Reverses the Hard-easy Effect James Eric Heyman 2005

Behavioral and Electrophysiological Examination of Lexical Processing in

the Two Cerebral Hemispheres Scott Allan Weems 2003

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