



# NOISE POLLUTION

# Effects Of Noisy Patterns In Some Areas Of Visual Research

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## **Effects Of Noisy Patterns In Some Areas Of Visual Research:**

*Effects of Noisy Patterns in Some Areas of Visual Research* Werner, Johannes Henricus Werner, 1983\* Technical Report Human Resources Research Organization, 1968 **Mental Health Research Institute Staff Publications** University of Michigan. Mental Health Research Institute, 1969 **Effects of Noisy Patterns in Some Areas of Visual Research** Johannes Henricus Werner, 1983 *Visual Pattern Analyzers* Norma Van Surdam Graham, 2001-09-20 The visual system must extract from the light that falls on the retina meaningful information about what is where in our environment At an early stage it analyzes the incoming sensory data along many dimensions of pattern vision e g spatial frequency orientation velocity eye of origin Visual Pattern Analyzers provides a definitive account of current knowledge about this stage of visual processing Nowhere else can such a comprehensive summary of the lower level pattern analyzers be found The book's emphasis is on psychophysical experiments measuring the detection and identification of near threshold patterns and the mathematical models such as multidimensional signal detection theory used to draw inferences from such experimental results but neurophysiological evidence is presented and compared critically to the psychophysical evidence Introductory material on psychophysical methods signal detection theory and the mathematics of Fourier analysis is given in order to make the book more accessible to all who are interested in the lower or higher levels of visual perception This volume will be of great value to researchers and graduate students in the fields of vision and perception Within the scientific community there is wide interest in the visual system and the book will be of use to investigators in many fields including psychophysics neuroscience ophthalmology and optics computer science and cognitive and experimental psychology *A Comparison of the Visual and Auditory Senses as Possible Channels for Communication* Paul G. Cheatham, 1950 *Using Noise to Characterize Vision* Rémy Allard, Jocelyn Faubert, Denis G. Pelli, 2016-03-02 Noise has been widely used to investigate the processing properties of various visual functions e g detection discrimination attention perceptual learning averaging crowding face recognition in various populations e g older adults amblyopes migrainers dyslexic children using noise along various dimensions e g pixel noise orientation jitter contrast jitter The reason to use external noise is generally not to characterize visual processing in external noise per se but rather to reveal how vision works in ordinary conditions when performance is limited by our intrinsic noise rather than externally added noise For instance reverse correlation aims at identifying the relevant information to perform a given task in noiseless conditions and measuring contrast thresholds in various noise levels can be used to understand the impact of intrinsic noise that limits sensitivity to noiseless stimuli Why use noise Since Fechner named it psychophysics has always emphasized the systematic investigation of conditions that break vision External noise raises threshold hugely and selectively In hearing Fletcher used noise in his famous critical band experiments to reveal frequency selective channels in hearing Critical bands have been found in vision too More generally the big reliable effects of noise give important clues to how the system works And simple models have been proposed to

account for the effects of visual noise As noise has been more widely used questions have been raised about the simplifying assumptions that link the processing properties in noiseless conditions to measurements in external noise For instance it is usually assumed that the processing strategy or mechanism used to perform a task and its processing properties e g filter tuning are unaffected by the addition of external noise Some have suggested that the processing properties could change with the addition of external noise e g change in filter tuning or more lateral masking in noise which would need to be considered before drawing conclusions about the processing properties in noiseless condition Others have suggested that different processing properties or mechanisms could be solicited in low and high noise conditions complicating the characterization of processing properties in noiseless condition based on processing properties identified in noise conditions The current Research Topic probes further into what the effects of visual noise tell us about vision in ordinary conditions Our Editorial gives an overview of the articles in this special issue

Behavioral Methods in Consciousness Research Morten Overgaard,2015-03-26 The past two decades have seen a surge of interest in the topic of consciousness with the result that the research literature has expanded greatly However until now there has been little consensus on just which methods are the most effective for the study of consciousness As a result a wide range of experimental paradigms have been employed sometimes making it difficult to compare and contrast experimental findings Behavioral Methods in Consciousness Research is the first book of its kind providing an overview of methods and approaches for studying consciousness The chapters are written by leading researchers and experts who describe the methods they actually use in their own studies along with their pitfalls problems and difficulties For all students and researchers embarking on research in this area and even seasoned researchers this book is a valuable source of information in helping them design perform and analyze scientifically rigorous experiments

Cumulated Index Medicus ,1974

**Marine Mammals: Fisheries, Tourism and Management Issues** Nicholas Gales,Mark Hindell,Roger Kirkwood,2003-10-22 Marine Mammals Fisheries Tourism and Management Issues brings together contributions from 68 leading scientists from 12 countries to provide a comprehensive up to date review on the way we manage our interactions with whales dolphins seals and dugongs The book examines how we have fared conserving the world s marine mammal populations with a focus on the key issues of fisheries and tourism From a unique southern hemisphere perspective the authors consider how science informs the culling debate how wild fisheries and aquaculture interact with marine mammal populations and how we might manage the effects of whale dolphin and seal watching industries The authors also address other issues such as the way in which ethics genetics acoustics ecosystem models and pollution influence the management and conservation of marine mammals Marine Mammals is an invaluable and accessible resource for all those involved with marine mammals including scientists managers policy makers industry representatives and students Winner of a 2004 Whitley Award

THE UBIQUITOUS NOISE Lucia R. Ronchi,2016-10-01

*The Oxford Compendium of Visual Illusions* Arthur Gilman Shapiro,Dejan Todorović,2017 Visual illusions are compelling

phenomena that draw attention to the brain's capacity to construct our perceptual world The Compendium is a collection of over 100 chapters on visual illusions written by the illusion creators or by vision scientists who have investigated mechanisms underlying the phenomena

**Human Memory** Alan D. Baddeley, 1997 The models of how human memory works and developments in our understanding of the subject are explained and examined in this textbook for students and professionals The author has tried to keep the style accessible for the general reader too

**Subject Index to Unclassified ASTIA Documents** Defense Documentation Center (U.S.), 1960 Catalog of Technical Reports, 1958 *Catalog of Technical Reports* United States. Dept. of Commerce. Office of Technical Services,

**Effects of Target Size Variation on Skill Acquisition**, 1954 **Challenges to Mean-Based Analysis in Psychology: The Contrast Between Individual People and General Science** Craig P. Speelman, Marek McGann, 2016-11-29

In a recent paper we Speelman McGann 2013 argued that psychology's reliance on data analysis methods that are based on group averages has resulted in a science of group phenomena that may be misleading about the nature of and reasons for individual behaviour The paper highlighted a tension between a science in search of general laws on the one hand and the individual variable and diverse nature of human behaviour on the other This Research Topic explored this concern about the pitfalls of using the mean for the basis of psychological science The problem is universal in its applicability to psychology and opinion papers reviews and original empirical research from all areas of the discipline were invited A total of 16 authors contributed 9 articles to the Topic The range of issues that the authors viewed through the lens provided is impressive The papers in this collection include a range of perspectives that provide concrete examples of how to approach research design data collection and analysis differently No one contribution will provide a solution to our multifarious challenges but nor should it Our subject matter is complex and subtle our investigations and methodological techniques will need to be equally so

Perceiving in Depth, Volume 2: Stereoscopic Vision Ian P. Howard, Brian J. Rogers, 2012-01-27 The three volume work *Perceiving in Depth* is a sequel to *Binocular Vision and Stereopsis* and to *Seeing in Depth* both by Ian P Howard and Brian J Rogers This work is much broader in scope than the previous books and includes mechanisms of depth perception by all senses including aural electrosensory organs and the somatosensory system Volume 1 reviews sensory coding psychophysical and analytic procedures and basic visual mechanisms Volume 2 reviews stereoscopic vision Volume 3 reviews all mechanisms of depth perception other than stereoscopic vision The three volumes are extensively illustrated and referenced and provide the most detailed review of all aspects of perceiving the three dimensional world Volume 2 addresses stereoscopic vision in cats and primates including humans It begins with an account of the physiology of stereoscopic mechanisms It then deals with binocular rivalry binocular summation binocular masking and the interocular transfer of visual effects such as the motion aftereffect and visual learning The geometry of the region in binocular space that creates fused images the horopter is discussed in some detail Objects outside the horopter produce images with binocular disparities that are used for stereoscopic vision Two chapters provide

accounts of mechanisms that bring the images into binocular register and of stimulus tokens that are used to detect binocular disparities Another chapter discusses cyclopean effects such as cyclopean illusions cyclopean motion and binocular direction that are seen only with binocular vision Stereoacuity is the smallest depth interval that can be detected Methods of measuring stereoacuity and factors that influence it are discussed Two chapters deal with the various types of binocular disparity and the role of each type in stereoscopic vision Another chapter deals with visual effects such as figure perception motion perception and whiteness perception that are affected by the relative distances of stimuli The spatiotemporal aspects of stereoscopic vision including the Pulfrich stereomotion effect are reviewed The volume ends with an account of techniques used to create stereoscopic displays and of the applications of stereoscopy     Scientific and Technical Aerospace Reports  
,1992

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