Sensation And Perception Yantis

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Beyond SensationThe Oxford Handbook of Eye MovementsAttentionControl of Cognitive ProcessesSENSATION &
PERCEPTION 2E & LAVisual Attention MechanismsHandbook of Cognition Steven Yantis Steven Yantis Steven YANTIS
Christian Kaernbach Simon Liversedge Harold Pashler Stephen Monsell Steven Yantis Virginio Cantoni Koen Lamberts
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like no other text sensation and perception expertly introduces students to how we sense and perceive the world around us using clear and detailed explanations and highly effective illustrations the text illuminates the connections between mind brain and behavior in the realm of sensation and perception seamlessly integrating classic findings with cutting edge research in psychology physiology and neuroscience sensation and perception 2e explores what questions researchers are seeking to answer to today and the methods of investigation they are using sensation and perception second edition now includes 15 chapters including separate chapters on motion perception perception for

action olfaction and gustation and a new appendix on noise and signal detection theory the new edition introduces new coauthor richard a abrams washington university

this volume presents a series of studies that expand laws invariants and principles of psychophysics beyond its classical domain of sensation this book s goal is to demonstrate the extent of the domain of psychophysics ranging from sensory processes through sensory memory and short term memory issues to the interaction between sensation and action the dynamics and timing of human performance are a further important issue within this extended framework of psychophysics given the similarity of the various cortical areas in terms of their neuroanatomical structure it is an important question whether this similarity is paralleled by a similarity of processes these issues are addressed by the contributions in the present volume using state of the art research methods in behavioral research psychophysiology and mathematical modeling the book is divided into four sections part i presents contributions concerning the classical domain of psychophysical judgment the next two parts are concerned with elementary and higher order processes and the concluding section deals with psychophysical models the sections are introduced by guest editorials contributed by independent authors these editorials present the authors personals view on the respective section providing an integrated account of the various contributions or highlighting their focus of interest among them while also voicing their own and sometimes different point of view they contribute to the process of discussion that makes science so exciting this volume should be of great interest to advanced students in neuroscience cognitive science psychology neuropsychology and related areas who seek to evaluate the range and power of psychological work today established scientists in those fields will also appreciate the variety of issues addressed within the same methodological framework and their multiple interconnections and stimulating cross talk

in the past few years there has been an explosion of eye movement research in cognitive science and neuroscience this has been due to the availability of off the shelf eye trackers along with software to allow the easy acquisition and analysis of eye movement data accompanying this has been a realisation that eye movement data can be informative about many different aspects of perceptual and cognitive processing eye movements have been used to examine the visual and cognitive processes underpinning a much broader range of human activities including language production dialogue human computer interaction driving behaviour sporting performance and emotional states finally in the past thirty years there have been real advances in our understanding of the neural processes that underpin eye movement behaviour the oxford handbook of eye movements provides the first comprehensive review of the entire field of eye movement research in over fifty chapters it reviews the developments that have so far taken place the areas actively being researched and looks at how the field is likely to devlop in the coming years the first section considers historical and background material before moving onto section 2 on the neural basis of eye movements the third and fourth sections looks at visual cognition and eye movements and eye movement pathology and development the final sections consider eye movements and reading and language processing and eye movements bringing together cutting edge research from and international team of leading psychologists neuroscientists and vision researchers this book is the definitive reference work in this field

this collection of essays intended as a text for students examines the different facets of research into attention the book is divided into two sections one deals with psychological research into such areas as visual search dual task interference and attentional bottleneck the other deals with approaches to neural network modelling and the effects of brain damage on attention

the thirty two contributions discuss evidence from psychological experiments with healthy and brain damaged subjects functional imaging electrophysiology and computational modeling

proceedings of the fifth international school on neural networks e r caianiello on visual attention mechaproceedings of the fifth international school on neural networks e r caianiello on visual attention mechanisms held 23 28 october 2000 in vietri sul mare italy nisms held 23 28 october 2000 in vietri sul mare italy the book covers a number of broad themes relevant to visual attention ranging from computer vision to psychology and physiology of vision the main theme of the book is the attention processes of vision systems and it aims to point out the analogies and the divergences of biological vision with the frameworks introduced by computer scientists in artificial vision

the handbook of cognition provides a definitive synthesis of the most up to date and advanced work in cognitive psychology in a single volume the editors have gathered together a team of world leading researchers in specialist areas of the field both traditional and hot new areas to present a benchmark in terms of theoretical insight and advances in methodology of the discipline this book contains a thorough overview of the most significant and current research in cognitive psychology that will serve this academic community like no other volume

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