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Multisensory Object Perception in the Primate Brain

 Springer

Multisensory Object Perception In The Primate Brain

Tao Wei

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Multisensory Object Perception In The Primate Brain:

Multisensory Object Perception in the Primate Brain Marcus Johannes Naumer, Jochen Kaiser, 2010-07-03 It should come as no surprise to those interested in sensory processes that its research history is among the longest and richest of the many systematic efforts to understand how our bodies function The continuing obsession with sensory systems is as much a reaction of the fundamental need to understand how we experience the physical world as it is to understand how we become who we are based on those very experiences The senses function as both portal and teacher and their individual and collective properties have fascinated scientists and philosophers for millennia In this context the attention directed toward specifying their properties on a sense by sense basis that dominated sensory research in the 20th century seems a prelude to our current preoccupation with how they function in concert Nevertheless it was the concentrated effort on the operational principles of individual senses that provided the depth of understanding necessary to inform current efforts to reveal how they act cooperatively We know that the information provided by any individual sensory modality is not always veridical but is subject to a myriad of modality specific distortions Thus the brain's ability to compare across the senses and to integrate the information they provide is not only a way to examine the accuracy of any individual sensory channel but also a way to enhance the collective information they make available to the brain

Multisensory Object Perception in the Primate Brain, 2011-07-01 **The New Handbook of Multisensory Processing** Barry E. Stein, 2012-06-01 The major reference work for a rapidly advancing field synthesizes central themes reports on current findings and offers a blueprint for future research Scientists attempts to understand the physiology underlying our apprehension of the physical world was long dominated by a focus on the individual senses The 1980s saw the beginning of systematic efforts to examine interactions among different sensory modalities at the level of the single neuron And by the end of the 1990s a recognizable and multidisciplinary field of multisensory processes had emerged More recently studies involving both human and nonhuman subjects have focused on relationships among multisensory neuronal ensembles and their behavioral perceptual and cognitive correlates The New Handbook of Multisensory Processing synthesizes the central themes in this rapidly developing area reports on current findings and offers a blueprint for future research The contributions all of them written for this volume by leading experts reflect the evolution and current state of the field This handbook does more than simply review the field Each of the volume's eleven sections broadly surveys a major topic and each begins with a substantive and thought provoking commentary by the section editor that identifies the major issues being explored describes their treatment in the chapters that follow and sets these findings within the context of the existing body of knowledge Together the commentaries and chapters provide an invaluable guide to areas of general agreement unresolved issues and topics that remain to be explored in this fast moving field

Sensory Individuals Aleksandra Mroczko-Wąsowicz, Rick Grush, 2023 Sensory Individuals Unimodal and Multimodal Perspectives provides an interdisciplinary well balanced and comprehensive look at

different aspects of unisensory and multisensory objects using both nuanced philosophical analysis and informed empirical work. The research presented in this book represents the field's progression from treating neural sensory processes as primarily modality specific towards its current state of the art according to which perception and its supporting neural processes are multi modal, modality independent, meta modal and task dependent. Even within such approaches, sensory stimuli, properties, brain activations and corresponding perceptual phenomenology can still be characterized in a modality specific way. The book examines the basic building blocks of human perception and whether they are best understood as sensory modality dependent units of different forms or multimodal perceptual objects. The book combines a variety of innovative and integrative angles to explore the topic and acts as a catalyst for an increasingly diverse field of research which is in an exciting phase of growth and advancement. New questions are arising as quickly as they are being answered and the collection *Sensory Individuals* provides an original and up to date addition to the field.

Time Distortions in Mind, 2015-07-14. *Time Distortions in Mind* brings together current research on aspects of temporal processing in clinical populations in the ultimate hope of elucidating the interdependence between perturbations in timing and disturbances in the mind and brain. Such research may inform not only typical psychological functioning but may also elucidate the psychological consequences of any pathophysiological differences in temporal processing. This collection of current knowledge on temporal processing in clinical populations is an excellent reference for the student and scientist interested in the topic but it also serves as the stepping stone to share ideas and push forward the advancement in understanding how distorted timing can lead to a disturbed brain and mind or vice versa. Contributors to this volume: Ryan D Ward, Billur Avlar, Peter D Balsam, Deana B Davalos, Jamie Oppen, Yvonne Delevoye, Turrell H Line, Wilquin Mariama, Dione Anne Giersch, Laurence Lalanne, Mitsouko van Assche, Patrick E Poncelet, Mark A Elliott, Deborah L Harrington, Stephen M Rao, Catherine R G Jones, Marjan Jahanshahi, Bon Mi Gu, Anita J Jurkowski, Jessica I Lake, Chara Malapani, Warren H Meck, Rebecca M C Spencer, Dawn Wimpory, Brad Nicholas, Elzbieta Szelag, Aneta Szymaszek, Anna Oron, Melissa J Allman, Christine M Falter, Argiro Vatakis, Alexandra Elissavet Bakou.

The First Sense Matthew Fulkerson, 2013-12-06. An empirically informed philosophical account of human touch as a single unified sensory modality that plays a central role in perception. It is through touch that we are able to interact directly with the world; it is our primary conduit of both pleasure and pain. Touch may be our most immediate and powerful sense, the first sense because of the central role it plays in experience. In this book, Matthew Fulkerson proposes that human touch, despite its functional diversity, is a single unified sensory modality. Fulkerson offers a philosophical account of touch reflecting the interests, methods and approach that define contemporary philosophy but his argument is informed throughout by the insights and constraints of empirical work on touch. Human touch is a multidimensional object of investigation. Fulkerson writes best served by using a variety of methods and approaches. To defend his view of the unity of touch, Fulkerson describes and argues for a novel unifying role for exploratory action in touch. He goes on to fill in the details of this

unified exploratory form of perception offering philosophical accounts of tool use and distal touch the representational structure of tangible properties the spatial content of touch and the role of pleasure in tactual experience Fulkerson's argument for the unique role played by exploratory action departs notably from traditional vision centric philosophical approaches to perception challenging the received view that action plays the same role in all sensory modalities The robust philosophical account of touch he offers in *The First Sense* has significant implications for our general understanding of perception and perceptual experience

Handbook of Psychology, Experimental Psychology Irving B. Weiner, Alice F. Healy, Robert W. Proctor, 2012-10-05 Psychology is of interest to academics from many fields as well as to the thousands of academic and clinical psychologists and general public who can't help but be interested in learning more about why humans think and behave as they do This award winning twelve volume reference covers every aspect of the ever fascinating discipline of psychology and represents the most current knowledge in the field This ten year revision now covers discoveries based in neuroscience clinical psychology's new interest in evidence based practice and mindfulness and new findings in social developmental and forensic psychology

Multisensory Control of Movement A. Berthoz, 1993 The relationship between perception and action constitutes one of the most interesting aspects of brain function This book takes a multidisciplinary approach to studying the problems of manipulation orienting and navigating in humans and animals Its premise is that control of movement is based on a configuration of several sensory cues all providing input It will be of interest to researchers clinicians and advanced students in neuroscience psychology and neurology

The Handbook of Multisensory Processes Gemma Calvert, Charles Spence, Barry E. Stein, 2004 Research is suggesting that rather than our senses being independent perception is fundamentally a multisensory experience This handbook reviews the evidence and explores the theory of broad underlying principles that govern sensory interactions regardless of the specific senses involved

Cognitive Neuroscience Society ... Annual Meeting Abstract Program Cognitive Neuroscience Society. Meeting, 2001

Perception, 2008 **International Encyclopedia of the Social & Behavioral Sciences** Neil J. Smelser, Paul B. Baltes, 2001 The largest work ever published in the social and behavioural sciences It contains 4000 signed articles 15 million words of text 90 000 bibliographic references and 150 biographical entries

Perception Randolph Blake, Robert Sekuler, 2006 With behavioral and biological approaches integrated throughout this edition includes expanded material on cognitive influences on perception New chapters address speech and music perception

Journal of Experimental Biology, 2004

Foundations of Sensation and Perception George Mather, 2009 The first edition of this comprehensive introduction to sensation and perception has been highly praised for its unique approach it allows students to thoroughly grasp the fundamental principles in relation to the relatively simple sensory systems before moving on to the more complex topics

BOOK JACKET **Forming Associations** Kathleen Carrie Armel, 2003 **The Journal of Neuroscience**, 2009 **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the**

Council for National Academic Awards ,2007 **Canadian Journal of Experimental Psychology ,2001** Society for
Neuroscience Abstracts Society for Neuroscience. Meeting,2001

The Enigmatic Realm of **Multisensory Object Perception In The Primate Brain**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Multisensory Object Perception In The Primate Brain** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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