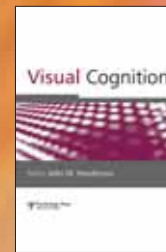


Sensation & Perception

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Space and Sense

Susanna Millar

Oxford University, UK

Essays in Cognitive Psychology Series



How do we perceive the space around us, locate objects within it, and make our way through it? What do the senses contribute?

This book focuses on touch in order to examine which aspects of vision and touch overlap in spatial processing. It argues that spatial processing depends crucially on integrating diverse sensory inputs as reference cues for the location, distance or direction response that

spatial tasks demand. *Space and Sense* shows how perception by touch, as by vision, can be helped by external reference cues, and that 'visual' illusions that are also found in touch depend on common factors and do not occur by chance.

Susanna Millar presents new evidence on the role of spatial cues in touch and movement both with and without vision, and discusses the interaction of both touch and movement with vision in spatial tasks. The book shows how perception by touch, as by vision, can be helped by external reference cues, and that 'visual' illusion that are also found in touch depend on common factors and do not occur by chance. It challenges traditional views of explicit external reference cues, showing that they can improve spatial recall with inputs from touch and movement, contrary to the held belief.

Space and Sense provides empirical evidence for an important distinction between spatial vision and vision that excludes spatial cues in relation to touch. This important new volume extends previous descriptions of bimodal effects in vision and space.

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Introduction: Overview and Layout of the Book. 1. Concepts of Space and Perception Through Touch and Vision in Historical Perspective. 2. The Reference Hypothesis: Spatial Coding as Integrative Processing of Converging Inputs from Vision, Touch and Movement. 3. Cues which Lure People from Walking Straight Ahead in Large-scale Spaces that Lack Reference Cues. 4. Hand Movements and Spatial Cues in Small-scale Space and in Shape Perception by Touch. 5. External and Body-centered Reference in Haptic Memory for Spatial Locations. 6. 'Visual' Illusions that Occur in Touch: Evidence for Some Common Factors. 7. Müller-Lyer Shapes in Touch and Vision. 8. What Does Vision Contribute to Touch? 9. How Far Have We Got? 10. Where are We Going?

February 2008: 6x9: 192pp

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www.psypress.com/essays/cognitive

Embodiment, Ego-Space, and Action

Roberta L. Klatzky, Brian MacWhinney, Marlene Behrmann, Carnegie Mellon University, USA (Eds.)

Carnegie Mellon Symposia on Cognition Series

The majority of research on human perception and action examines sensors and effectors in relative isolation. What is less often considered in these research domains is that humans interact with a perceived world in which they themselves are part of the perceptual representation, as are the positions and actions (potential or ongoing) of other active beings. It is this self-in-world representation that we call embodiment. Increasingly, research demonstrates that embodiment is fundamental to both executing and understanding spatially and interpersonally directed action. It has been theorized to play a role in reaching and grasping, locomotion and navigation, infant imitation, spatial and social perspective taking, and neurological dysfunctions as diverse as phantom limb pain and autism. Few formal ideas have been put forward, however, to describe how self-representation functions at a mechanistic level and what neural structures support those functions.

This volume reports on the 2006 Carnegie Symposium on Cognition, which brought together the contributions to these issues from a group of researchers who span perspectives of behavioral science, neuroscience, developmental psychology and computation. Together they share their findings, ideas, aspirations, and concerns.

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R.L. Klatzky, M. Behrmann, B. MacWhinney, Editors' Preface. *J.M. Loomis, J.W. Philbeck*, Measuring Spatial Perception with Spatial Updating and Action. *G. Knoblich*, Bodily and Motor Contributions to Action Perception. *C.L. Reed, D.N. McIntosh*, The Social Dance: On-line Body Perception in the Context of Others. *M. Shiffrar*, Embodied Motion Perception: Psychophysical Studies of the Factors Defining Visual Sensitivity to Self and Other Generated Actions. *R.L. Klatzky, B. Wu*, The Embodied Actor in Multiple Frames of Reference. *D. Proffitt*, An Action-Specific Approach to Spatial Perception. *P. Cisek*, The Affordance Competition Hypothesis: A Framework for Embodied Behavior. *J.C. Culham, J. Gullivan, C. Cavina-Pratesi, D.J. Quinlan*, fMRI Investigations of Reaching and Ego Space in Human Superior Parieto-Occipital Cortex. *K. Adolph*, The Growing Body in Action: What Infant Locomotion Tells Us About Perceptually Guided Action. *B.I. Bertenthal, M.R. Longo*, Motor Knowledge and Action Understanding: A Developmental Perspective. *B. MacWhinney*, How Mental Models Encode Embodied Linguistic Perspectives.

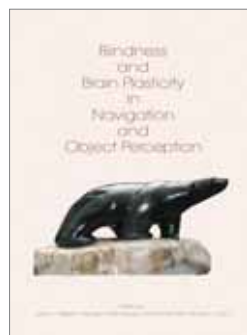
November 2007: 6x9: 352pp

Hb: 978-0-8058-6288-1 ISBN10: 0-8058-6288-9: £39.95

New!

Blindness and Brain Plasticity in Navigation and Object Perception

John J. Rieser, Daniel H. Ashmead, Ford Ebner, Anne L. Corn, Vanderbilt University, USA (Eds.)



Research into the development of sensory structures in the brains of blind or visually-impaired individuals has opened a window into important ways in which the mind works. In these individuals, the part of the brain that is usually devoted to processing visual information is given over to increased processing of the touch and hearing sense. This demonstration of brain plasticity is of great importance to cognitive

neuroscientists and cognitive psychologists, and has real implications for rehabilitation and education specialists who work with the visually impaired. This is an interdisciplinary book, featuring chapters from cognitive and developmental psychologists, neurologists and neuroscientists, and rehabilitation specialists and educators. All of these groups do research in this area but generally do not collaborate with one another. This book is an attempt to bring together the disparate threads of research into a single volume, appropriate for all three markets.

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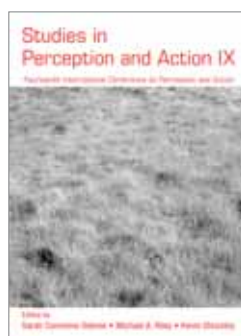
Hb: 978-0-8058-5551-7 ISBN10: 0-8058-5551-3: £59.95

New!

Studies in Perception and Action IX Fourteenth International Conference on Perception and Action

Sarah Cummins-Sebree, Michael A. Riley, Kevin Shockley, University of Cincinnati, USA (Eds.)

Studies in Perception and Action Series



The edited book series *Studies in Perception and Action* contains a collection of research presented at the International Conference on Perception and Action (ICPA). The *Studies* series has appeared in conjunction with the biennial ICPA since 1991. ICPA provides a forum for presenting new data, theory, and methodological developments relevant to the ecological approach to perception-action. This volume is the 9th in the *Studies in Perception and Action* series, and it contains research presented at the 14th ICPA meeting in the summer of 2007.

The sixty papers presented in this volume represent the latest developments in ecological psychology research from four continents. In many instances, the contributions to *Studies* volumes reflect the first appearance of new ideas in a scientific venue. As a result, the *Studies* volumes contain the most recent and cutting edge research in perception and action. This volume will appeal to individuals who follow the research literature in ecological psychology, as well as those interested in perception, perceptual development, human movement dynamics, and social processes.

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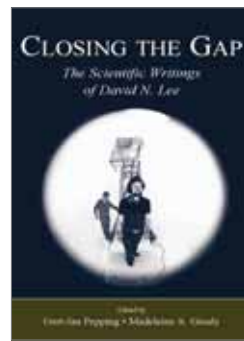
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Closing the Gap

The Scientific Writings of David N. Lee

Gert-Jan Pepping, University Medical Centre Groningen, The Netherlands

Madeleine A. Grealy, University of Glasgow, UK (Eds.)



This book is a collection of Lee's most important works, placed in a historical setting and contextualized through the commentaries of other leading researchers in the field. The contributors were selected on the basis of their standing in the field. Some have been directly involved in collaborations with Lee, while others have participated in public discussions on particular controversies. All contributors know

David Lee well as a researcher and scholar, and some know him on a more personal level—as a student, supervisor, mentor, or friend. It is this mixture of involvements with David Lee and his writings that yields a unique exchange of ideas on the origins of movement. *Closing the Gap: The Scientific Writings of David N. Lee* is an invaluable resource for academics and postgraduate students studying perceptuo-motor control.

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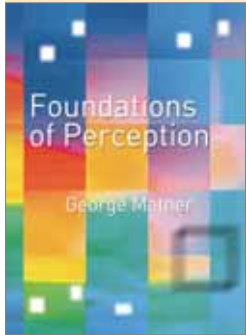
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Textbook!

Foundations of Perception

George Mather

University of Sussex



"Students who master the material presented in this book will have an excellent grasp of sensation and perception. ... In addition to a thorough presentation of the topics of interest, Mather has included some excellent pedagogical features that ... put this book in a class by itself. ... Each chapter features excellent and well-labeled figures, tables, or photographs. ... Although it is not part of the book per se, the Perception

Student Learning Program (PSLP) also deserves mention. ... Would I use it for my S&P course? The answer is a resounding yes. I heartily recommend it to all faculty and students." -

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"George Mather's Foundations of Perception is the best text on perception in a long time. It presents the basics in an accessible and engaging manner. All the most recent advances in research are here as well, covered as thoroughly as in any reference text, but much more readable in the broad context of the book. Foundations of Perception is an excellent fit for an introductory course on sensation and perception, outshining others in its range, depth, and clarity. It would be equally at home in an upper level course as a complement to a series of original articles." - **Patrick Cavanagh, Vision Sciences Laboratory, Harvard University**

This clear and balanced introduction to perception examines all the major and minor senses, including vision, hearing, touch, balance, taste and smell. It provides the reader with a thorough analysis of our perceptual experience, how it relates to the physical properties of the world and how it is linked to the biological properties of the brain. Coverage of the senses begins with the minor senses and ends with vision: fundamental principles are easier to grasp when first encountered in relation to relatively simple sensory systems.

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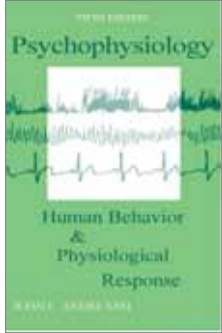
Psychophysiology

Human Behavior and Physiological Response

5th Edition

John L. Andreassi

City University of New York/Baruch College, USA



Review of the Fourth Edition:

"I found this book enjoyable to read. There was a good logical progression from one topic to the next. It is very comprehensive, extensively documenting positive, negative or controversial findings by many measures of mental processes ranging from attention, concentration, memory, perception, sensation, intelligence, affect, language, and cognition to sleep." - The Canadian Journal of Neurological Sciences

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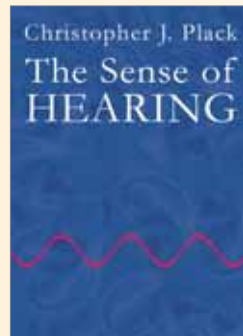
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Christopher J. Plack

Lancaster University, UK



The Sense of Hearing is a truly accessible introduction to auditory perception that is intended for students approaching the subject for the first time, and as a foundation for more advanced study. In clear and authoritative prose, the fundamental aspects of hearing are addressed. The reader is introduced to the nature of sound and the spectrum, and the anatomy and physiology of the auditory system. Basic auditory

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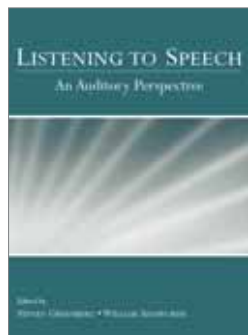
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Listening to Speech

An Auditory Perspective

Steven Greenberg, The Speech Institute, USA
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"The chapters in Listening to Speech provide a compelling case for the importance of audition in shaping the speech signal. The book will be of interest to professionals such as scientists, engineers and clinicians, as well as graduate students whose work and studies pertain to any aspect of spoken language or hearing science."
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The human species is largely defined by its use of spoken language, so integral is speech communication to behavior and social interaction. Despite its importance in everyday life, comparatively little is known about the auditory mechanisms that underlie the ability to understand language. The current volume examines the perception and processing of speech from the perspective of the hearing system. The chapters in this book describe a comprehensive set of approaches to the scientific study of speech and hearing, ranging from anatomy and physiology, to psychophysics and perception, and computational modeling. The auditory basis of speech is examined within a biological and an evolutionary context, and its relevance to applied domains such as communication disorders and speech technology discussed in detail. This volume will be of interest to scientists, engineers, and clinicians whose professional work pertains to any aspect of spoken language or hearing science.

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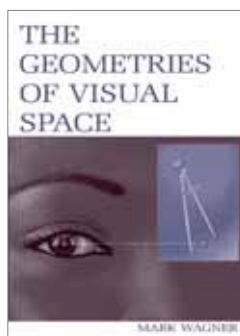
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The Geometries of Visual Space

Mark Wagner
Wagner College, USA



"In his fine book... Wagner's goal is to show how the 'literature of spatial experience paints a rich, multidimensional picture that dynamically changes as a function of contextual variables'. In this he very largely succeeds. Wagner expresses the hope that his book would not be only for scholars but would 'also make for a good graduate level textbook on space perception'... Any graduate student who is serious about understanding the foundations of psychology should try to read at least the first four chapters of this book." -

PsycCRITIQUES

When most people think of space, they think of physical space. However, visual space concerns space as consciously experienced, and it is studied through subjective measures, such as asking people to use numbers to estimate perceived distances, areas, angles, or volumes. This book explores the mismatch between perception and physical reality, and describes the many factors that influence the perception of space including the meaning assigned to geometric concepts like distance, the judgment methods used to report the experience, the presence or absence of cues to depth, and the orientation of a stimulus with respect to point of view. The main theme of the text is that no single geometry describes visual space, but that the geometry of visual space depends

upon the stimulus conditions and mental shifts in the subjective meaning of size and distance.

While this book is primarily intended for scholars in perception, mathematical psychology, and psychophysics, it will also be accessible to a wider audience since it is written at a readable level. It will make a good graduate-level textbook on space perception.

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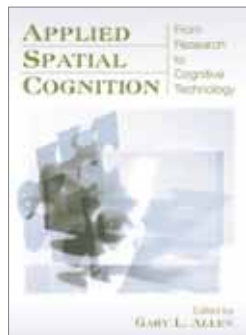
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Applied Spatial Cognition

From Research to Cognitive Technology

Gary L. Allen

University of South Carolina, USA (Ed.)



Applied Spatial Cognition illustrates the vital link between research and application in spatial cognition. With an impressive vista ranging from applied research to applications of cognitive technology, this volume presents the work of individuals from a wide range of disciplines and research areas, including psychologists, geographers, information scientists, computer scientists, cognitive scientists,

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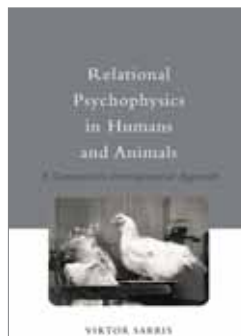
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Relational Psychophysics in Humans and Animals

A Comparative-Developmental Approach

Viktor Sarris

J.W. Goethe University, Frankfurt, Germany



"Sarris has introduced some much-needed structure into the field of relational psychophysics. Particularly compelling is the use of the comparative, developmental, and evolutionary perspectives to enrich our ideas about context effects in human psychophysics. But Sarris doesn't stop there. He integrates ideas from philosophy, systems theory, physics, biology, and others, all in the context of laboratory work which illustrates

fundamental ideas of how most living creatures perceive sensory stimuli in relation to each other and to their environmental setting." - **Lawrence Ward, University of British Columbia**

Relational Psychophysics in Humans and Animals offers a comprehensive and integrated overview of the often fragmented field of psychophysics. It introduces key concepts in psychophysics and clearly summarises and illustrates the central issues through telling examples. It combines empirical research and theoretical approaches from general psychophysics, animal psychophysics and human-infant psychophysics, to create a systematic comparison of these three key areas.

Throughout, Viktor Sarris makes a strong case for more comparative psychophysical research across different species and across different stages of development. He presents original research and examines frame-of-reference models, behavioural psychophysics, developmental psychophysics, perceptual-cognitive psychophysics and

evolutionary perspectives, to create an integrated framework for the direction of new research.

The book will be an invaluable aid for researchers in the fields of perception and psychophysics.

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The Auditory Cortex

A Synthesis of Human and Animal Research

Reinhard König, Peter Heil, Henning Scheich, Eike Budinger, Leibniz Institute for Neurobiology, Germany (Eds.)



"The Auditory Cortex: A Synthesis of Human and Animal Research is a remarkable meeting of (no less than 70) experts concerned with how the brain processes sounds... Provides novel ideas on the place of the auditory cortex in a bigger scheme of cortical and perceptual processing. A plethora of contemporary questions is present throughout the text... The Auditory Cortex may be most useful to graduate students and investigators

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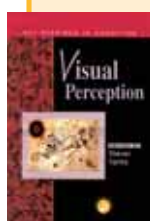
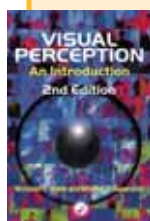
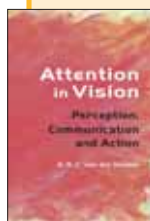
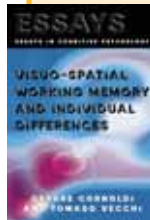
Understanding human hearing is not only a scientific challenge but also a problem of growing social and political importance, given the steadily increasing numbers of people with hearing deficits or even deafness. This book is about the highest level of hearing in humans and other mammals. It brings together studies of both humans and animals thereby giving a more profound understanding of the concepts, approaches, techniques, and knowledge of the auditory cortex. All of the most up-to-date procedures of non-invasive imaging are employed in the research that is described.

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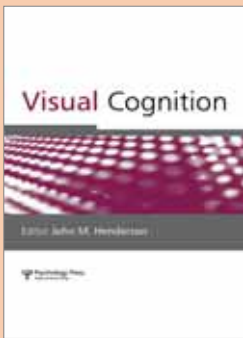
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