

## Adaptive Spatial Alignment and Strategic Perceptual-Motor Control

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When starting limb and target locations were simultaneously visible in a visuo-motor task, performance during prism exposure was nearly perfect, but aftereffects were absent. When starting limb location was not visible, accurate exposure performance was slow to develop, but aftereffects were substantial. Adaptive spatial alignment of sensorimotor spaces and strategic perceptual-motor control to coordinate sensorimotor systems are distinct processes. However, realignment is dependent on whether the exposure task evokes control strategies that enable detection of misalignment. If the task can be performed solely by coding the visible difference between limb and target locations, misalignment detection is disabled. If movement is initiated by target location and then the limb is controlled by the visible difference between target and limb, the discordance between initialized and terminal locations enables misalignment detection and realignment.

When people perform a coordination task like target pointing with prismatic displacement of the visual field (e.g., Welch, 1978, 1986), performance error is initially large but quickly declines (e.g., Baily, 1972; Redding & Wallace, 1993a). Such direct evidence from performance during exposure to the prismatic distortion suggests that prism adaptation quickly becomes complete. Yet, aftereffect measures obtained by comparing postexposure with pre-exposure performance are slower to change and usually asymptotic far short of complete compensation for the distortion (e.g., Redding, 1973b; Redding & Wallace, 1976, 1993a). Such indirect evidence from aftereffects of exposure suggests that prism adaptation is slow and incomplete. This apparent contradiction can be understood by distinguishing two main classes of contributions to prism adaptation: adaptive spatial alignment and strategic perceptual-motor control.

*Adaptive spatial alignment* describes the class of parameter adjustments in the evolutionarily given spatial mapping functions or transformations that normally align corresponding positions<sup>1</sup> among the various spatial representations that serve perceptual-motor behavior (Paillard, 1991a; Shepard, 1981, 1989). Instances of such *realignments* include spatial mappings of eye-retina onto head, head onto body, arm onto shoulder, and leg onto trunk. Prism adapta-

tion is, in part, an experimental illustration of the ability to compensate for misalignments arising from the natural processes of growth (e.g., Bullock & Crossberg, 1988; Held & Bossom, 1961), normal drift (e.g., Howard, 1982; Robinson, 1976), and pathology (e.g., Goodale, Milner, Jakobson, & Carey, 1990; Jakobson & Goodale, 1989). Such parameter adjustment is characterized by complete transfer of training with a subset of positions to the entire domain of a transformation (Bedford, 1989, 1993a, 1993b; see also Paillard, 1991b). Thus, aftereffect measures obtained from criterion tasks that differ from the prism exposure task are ideally suited for isolating the changes in spatial mapping functions that contribute to prism adaptation.

*Strategic perceptual-motor control* describes the class of motor control processes that normally enable common action (coordination) of the various sensorimotor systems that serve perceptual-motor behavior (e.g., Paillard, 1991b; see also Grobstein, 1988; Sparks, 1988). Instances of such *strategic control* include task-dependent deployment of visual guidance, predictive feedforward control, error-corrective (on-line) feedback control, performance changes based on (off-line) knowledge of results, and associative feedforward learning. Prism adaptation, in part, illustrates the ability to accommodate ordinary imprecision in perceptual and motor processes, change in the environmental context in which a perceptual-motor task must be performed, and the esoteric variety of tasks required of the perceptual-motor system. The nature of strategic control is that it is task specific, displaying limited competence beyond the region of the task domain sampled during training (e.g., Marteniuk, 1992; Proteau, 1992). Thus, changes in performance of the expo-

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<sup>1</sup>By "position" we mean separate spatial representations of location and orientation (e.g., Shepard, 1984, 1989) that are independently affected by optical displacement of the visual field in a lateral direction and rotation (tilt) of the visual field in the frontal plane (Redding, 1973a, 1975).

# Adaptive Spatial Alignment

**Huangqi Zhang**



## **Adaptive Spatial Alignment:**

*Adaptive Spatial Alignment* Gordon M. Redding, Benjamin Wallace, 2013-06-17 For most people prism adaptation is an amusing demonstration first experienced perhaps in an introductory psychology course This monograph relates this peculiar phenomenon to the larger context of cognitive science especially motor control and learning The first part sketches the background concepts necessary to understand the contribution of prism adaptation to the larger issue of adaptive perceptual motor performance including a review of the basic concepts of motor control and learning that enable strategic response in the prism adaptation situation the development of a hypothesis about spatial representation and spatial mapping and an introduction to the basic idea of adaptive spatial alignment and a contrasting view of perceptual and motor learning and a review of evidence for the involvement of nonassociative and associative learning in prism adaptation Directly concerned with data and theory in prism adaptation the second part presents an outline of prism adaptation methodology and a list of several empirical conclusions from previous research that constrained development of theoretical framework a theory of strategic perceptual motor control and learning which enables adaptive performance during prism exposure but does not directly involve adaptive spatial alignment an extension of the theory to include realignment processes which correct for the spatial misalignment among sensorimotor systems produced by prisms and a demonstration of how traditional issues in prism adaptation may be rephrased in terms of the present theoretical framework The last part of this volume reviews the research conducted in developing and testing the present theory of prism adaptation It summarizes the initial investigations employing a naturalistic exposure setting reports some more rigorous tests with an experimentally constrained research paradigm points out the more general theoretical issues raised by the authors analysis of prism adaptation and makes specific suggestions for further research within the prism adaptation paradigm

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**Vision and Motor Control** L. Proteau, D. Elliott, 1992-02-20 Since the classic studies of Woodworth 1899 the role of vision in the control of movement has been an important research topic in experimental psychology While many early studies were concerned with the relative importance of vision and kinesthesia and or the time it takes to use visual information recent theoretical and technical developments have stimulated scientists to ask questions about how different sources of visual information contribute to motor control in different contexts In this volume articles are presented that provide a broad coverage of the current research and theory on vision and human motor learning and control Many of the contributors are colleagues that have met over the years at the meetings and conferences concerned with human movement They represent a wide range of affiliation and background including kinesiology physical education neurophysiology cognitive psychology and neuropsychology Thus the topic of vision and motor control is addressed from a number of different perspectives In general each author sets an empirical and theoretical framework for their topic and then discusses current work from their own laboratory and how it fits into the larger context A synthesis chapter at the end of the volume identifies commonalities in the work and suggests directions for future experimentation

*Plasticity in Sensory Systems* Jennifer K. E. Steeves, Laurence R. Harris, 2012-12-17 Centered on three themes this book explores the latest research in plasticity in sensory systems focusing on visual and auditory systems It covers a breadth of recent scientific study within the field including research on healthy systems and diseased models of sensory processing Topics include visual and visuomotor learning models of how the brain codes visual information sensory adaptations in vision and hearing as a result of partial or complete visual loss in childhood plasticity in the adult visual system and plasticity across the senses as well as new techniques in vision recovery rehabilitation and sensory substitution of other senses when one sense is lost This unique edited volume the fruit of an International Conference on Plastic Vision held at York University Toronto will provide students and scientists with an overview of the ongoing research related to sensory plasticity and perspectives on the direction of future work in the field

**Geocoding Health Data** Gerard Rushton, Marc P. Armstrong, Josephine Gittler, Barry R. Greene, Claire E. Pavlik, Michele M. West, Dale L. Zimmerman, 2007-11-19 In the past disease pattern mapping depended on census tracts based on political units such as states and counties However with the advent of geographic information systems GIS researchers can now achieve a new level of precision and flexibility in geographic locating This emerging technology

allows the mapping of many different kinds of ge

**Innovations in Cybersecurity and Data Science** Syed Muzamil Basha, Hamed Taherdoost, Cleber Zanchettin, 2024-12-12 This book features research papers presented at International Conference on Innovations in Cybersecurity and Data Science ICICDS 2024 held at Reva University Bengaluru India during 15-16 March 2024. The book presents original research work in the field of computer science, computer applications, information technology, artificial intelligence, and other relevant fields of IoT, big data, data management, and analytics and security. The book is beneficial for readers from both academia and industry. *Novel insights in rehabilitation of neglect, 2nd Edition* Stefan Van Der Stigchel, Tanja Nijboer, 2015-01-09 Hemispatial neglect is the failure to report, respond to, or orient to novel or meaningful stimuli presented in the contralesional visual field. It constitutes one of the most invalidating neurological disorders that can occur after stroke. It is therefore important to treat neglect as adequately as possible, and much of the research dedicated to neglect therefore focuses on rehabilitation. In this special topic, you will find 29 articles on the rehabilitation of neglect. This research topic has opened new perspectives and has given us an indication of where the field is going. Although some of the current rehabilitation techniques have proven to be beneficial, there is limited agreement on the most valuable technique or the mechanisms underlying the ameliorating effects.

**Advanced Intelligent Computing Technology and Applications** De-Shuang Huang, Bo Li, Haiming Chen, Chuanlei Zhang, 2025-07-14 This 20-volume set LNCS 15842-15861 constitutes in conjunction with the 4-volume set LNAI 15862-15865 and the 4-volume set LNBI 15866-15869 the refereed proceedings of the 21st International Conference on Intelligent Computing ICIC 2025 held in Ningbo, China during July 26-29, 2025. The total of 1206 regular papers were carefully reviewed and selected from 4032 submissions. This year, the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing. Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. Therefore, the theme for this conference was Advanced Intelligent Computing Technology and Applications.

**Micro-optics, VCSELs, and Photonic Interconnects**, 2004 *Neural Computation*, 2002 *Consolidation of Implicit Motor Skill* Kelly Goedert, 2001 *Learning to Throw on a Rotating Carousel* Hugo Bruggeman, 2004 **Perception**, 2007 [Subject Guide to Books in Print](#), 2001 *Effect of Sequential Versus Simultaneous Practice on Learning a Multi-component Visual-motor Task* Cengiz Yakut, 2002 [Detection and Remediation Technologies for Mines and Minelike Targets](#), 1997 **Toward a New Behaviorism** William R. Uttal, 1998 This volume examines the scientific basis of reductionist approaches to understanding visual perception. The author makes the provocative argument that contemporary neuroscience and cognitive science have gone off on a wild goose chase in the search for reductionist explanations of perceptual phenomena. This book considers some specific and general examples of this misdirection and suggests an alternative future course for science. It reviews the successes and failures of the sciences' efforts to explain perceptual and other mental functions in the terms of

either internal cognitive mechanisms formal models or the neural structures from which the brain the organ of the mind is constructed Although this is an iconoclastic and minority view the book shows how many contemporary perceptual scientists have qualified their thinking with regard to what their data and theories mean even while generally accepting the empirical findings It is without question an attempted refutation of some of the primary assumptions of contemporary theory Summing up the author s convictions concerning some of the most important questions of human nature this book is a statement of a point of view that has provided a framework for his personal answers to some of these important questions of human history

*Laser Control and Manipulation of Molecules* André D. Bandrauk, Yuichi Fujimura, Robert J. Gordon, 2002 This book details advances in the studies of chemical dynamics and photochemistry using emerging laser technologies It examines both theoretical and experimental advances in this field and includes such topics as efficient selectivity in chemical reactions new pulse shaping techniques and new tool for realistic control and manipulation of molecules American Book Publishing Record, 1997 Handbook of Implicit Learning Michael A. Stadler, Peter A. Frensch, 1998 Although research on implicit learning a cognitive phenomenon in which people acquire new knowledge without conscious intent or awareness has been growing exponentially there hasn t been a single resource on the topic until now Aimed at providing a comprehensive overview of implicit learning the prestigious contributors to this volume explore the field s controversies the functional characteristics of implicit learning brain mechanisms and the neurological foundations for implicit learning connectionist models of implicit learning and applications of implicit learning to acquiring new mental skills The editors open the book by examining the definition of implicit learning Frensch considers the multiple meanings of the term Stadler and Roediger consider aspects of the definition that hinge on the issue of awareness and Buchner and Wippich compare and contrast implicit learning with implicit memory Next the contributors discuss the various forms of implicit and the paradigms used to study it Berry and Cook explore recent work on invariance learning Hoffman considers the issue of the structure of what subjects learn in implicit learning experiments Manza Zizak and Reber review work on artificial grammar learning that uses preference judgment task as a measure of learning Mathews and Cochran examine the generativity of implicit knowledge via the use of the artificial grammar learning paradigm Reed and Johnson look at implicit learning from the perspective of work done with serial reaction time tasks and Seger explores the possibility of multiple forms of implicit learning The book concludes with an investigation of various theoretical and empirical issues in implicit learning such as Cleeremans connectionist model Curran s look at cognitive neuroscientific evidence Goschke s investigation of perceptual and motor mechanisms of implicit learning an analysis of the developmental perspectives of Hoyer Willingham Perruchet and Vinter Hsaiao and Reber s review of evidence on the role of attention in implicit learning and Shanks and Johnstone s alternative account of learning in serial reaction time tasks This handbook offers readers the first complete reference on implicit learning by those who have been instrumental in shaping the field This handbook offers readers the first complete reference on

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