

THE SWIMMER

An Integrated
Computational Model
of a Perceptual-Motor
System

SCIENTIFIC PSYCHOLOGY SERIES

WILLIAM R. UTTAL
GARY BRADSHAW
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GREG TUPPER

A **Psychology Press** Book



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Swimmer An Integrated Computational Model Of A Perceptual Motor System:

THE SWIMMER UTTAL,2016-10-26 **The Swimmer** William R. Uttal,1992 First Published in 1992 Routledge is an imprint of Taylor Francis an informa company *The Swimmer* William R. Uttal,Gary Bradshaw,Sriram Dayanand,Robb Lovell,Thomas Shepherd,2014-02-25 This research monograph describes a large programming project in which an underwater organism capable of perceiving learning deciding and navigating is computationally simulated The developed computational model serves as a contemporary theory of perceptual motor performance embodying much of what is known about human vision and some of what is known about other cognitive processes This artificial intelligence project has substantial contributions to make to the development of autonomous underwater vehicles It also makes a specific theoretical statement about the organization and nature of organic perceptual motor systems that may be useful to psychologists neuroscientists and theoreticians in a number of other fields **Foundations of Perceptual Theory** S.C. Masin,1993-06-30

Historical analysis reveals that perceptual theories and models are doomed to relatively short lives The most popular contemporary theories in perceptual science do not have as wide an acceptance among researchers as do some of those in other sciences To understand these difficulties the authors of the present volume explore the conceptual and philosophical foundations of perceptual science Based on logical analyses of various problems theories and models they offer a number of reasons for the current weakness of perceptual explanations New theoretical approaches are also proposed At the end of each chapter dicussants contribute to the conclusions by critically examining the authors ideas and analyses

Computational Modeling of Vision William Uttal,1999-02-02 Defines a unified theory of vision in which nearly independent components of visual stimuli are recombined and synthesized at high levels of neural processing to produce the richness of visual experience The text illustrates how visual systems gather process and reconstruct information about objects in two and three dimensions *Computational, Geometric, and Process Perspectives on Facial Cognition* Michael J. Wenger,James T. Townsend,2005-04-11 Within the last three decades interest in the psychological experience of human faces has drawn together cognitive science researchers from diverse backgrounds Computer scientists talk to neural scientists who draw on the work of mathematicians who explicitly influence those conducting behavioral experiments The chapters in this volume illustrate the breadth of the research on facial perception and memory with the emphasis being on mathematical and computational approaches In pulling together these chapters the editors sought to do much more than illustrate breadth They endeavored as well to illustrate the synergies and tensions that inevitably result from adopting a broad view one consistent with the emerging discipline of cognitive science **The Neuron and the Mind** William R. Uttal,2016-07-01 This book a companion to William R Uttal s earlier work on macrotheories theories of mind brain relationships reviews another set of theories those based on microneuronal measurements Microneural theories maintain the integrity of individual neurons either in isolation or as participants in the great neuronal networks that make up the physical brain Despite an

almost universal acceptance by cognitive neuroscientists that the intangible mind must in some way be encoded by network states Uttal shows that the problem of how the transformation occurs is not yet supported by empirical research findings at the micro as well as at the macro levels of analysis Theories of the neuronal network survive more as metaphors than as robust explanations This book also places special emphasis on the technological developments that stimulate these metaphors A major conclusion drawn in this book is that it is not at all certain that the mind brain problem is solvable in the sense that many other grand scientific problems are

Macroneural Theories in Cognitive Neuroscience William R. Uttal, 2015-07-24 In this book William R Uttal continues his analysis and critique of theories of mind This book considers theories that are based on macroneural responses such as those obtained from fMRI that represent the averaged or cumulative responses of many neurons The analysis is carried out with special emphasis on the logical and conceptual difficulties in developing a theory but with special attention to some of the current attempts to go from these cumulative responses to explanations of the grand question of how the mind is generated by the brain While acknowledging the importance of these macroneural techniques in the study of the anatomy and physiology of the brain Uttal concludes that this macroneural approach is not likely to produce a valid neural theory of cognition because the critical information the states of the individual neurons involved in brain activity becoming mental activity is actually lost in the process of summation Controversial topics are considered in detail including discussions of empirical logical and technological barriers to theory building in cognitive neuroscience

Reliability in Cognitive Neuroscience William R. Uttal, 2013 Cognitive neuroscientists increasingly claim that brain images generated by new brain imaging technologies reflect correlate or represent cognitive processes This book warns against these claims arguing that despite its utility in anatomic and physiological applications brain imaging research has not provided consistent evidence for correlation with cognition It bases this argument on a review of the empirical literature pointing to variability in data not only among subjects within individual experiments but also in the meta analytical approach that pools data from different experiments

Mind and Brain William R. Uttal, 2011-08-26 The search for mind brain relationships with a particular emphasis on distinguishing hyperbole from solid empirical results in brain imaging studies Cognitive neuroscience explores the relationship between our minds and our brains most recently by drawing on brain imaging techniques to align neural mechanisms with psychological processes In *Mind and Brain* William Uttal offers a critical review of cognitive neuroscience examining both its history and modern developments in the field He pays particular attention to the role of brain imaging especially functional magnetic resonance imaging fMRI in studying the mind brain relationship He argues that despite the explosive growth of this new mode of research there has been more hyperbole than critical analysis of what experimental outcomes really mean With *Mind and Brain* Uttal attempts a synoptic synthesis of this substantial body of scientific literature Uttal considers psychological and behavioral concerns that can help guide the neuroscientific discussion work done before the advent of imaging systems and

what brain imaging has brought to recent research Cognitive neuroscience Uttal argues is truly both cognitive and neuroscientific Both approaches are necessary and neither is sufficient to make sense of the greatest scientific issue of all how the brain makes the mind *The Immeasurable Mind* William R. Uttal,2010-05 Is psychology a science Unlike Darwinian theory in biology or relativity and quantum theory in physics psychology lacks the basic quantitative or conceptual foundation for a consensus view about how the mind works Is psychology on the verge of developing such a foundation Probably not answers psychologist William R Uttal in this iconoclastic and critical examination of psychology s underlying principles assumptions and concepts In five in depth chapters and one appendix he explores the following key issues What do we mean by science and can psychology be legitimately described as a science What are the general principles that should be applied to any science What is the role of mathematics in psychology Given the current fragmented state of the discipline is it possible to identify the general principles of a scientific psychology Is experimental psychology just applied epistemology and not really scientific Uttal comes to the conclusion that psychology is a science only to the extent that it is behaviorist in orientation By comparing his discipline to other sciences he identifies its limits establishes a set of principles that help to define psychology as a science and suggests plausible future developments **Neural Theories of Mind** William R. Uttal,2020-07-24 In this fascinating book William R Uttal raises the possibility that however much we learn about the anatomy and physiology of the brain and psychology we may never be able to cross the final bridge explaining how the mind is produced by the brain Three main classes of mind brain theory are considered and rejected field theories because they are based on a superficial analogy single cell theories because they emerge from a massive uncontrolled experimental program and neural net theories because they are constrained by combinatorial complexity To support his argument Uttal explores the empirical and conceptual foundations of these theoretical approaches and identifies flaws in their fundamental logic The author concludes that the problems preventing solution of the mind brain problem are intractable yet well within the confines of natural science A Behaviorist Looks at Form Recognition William R. Uttal,2014-04-04 For many years behaviorism was criticized because it rejected the study of perception This rejection was based on the extreme view that percepts were internal subjective experiences and thus not subject to examination This book argues that this logic is incorrect and shows how visual perception particularized in the study of form recognition can be carried out from the behavioral point of view if certain constraints and limitations are understood and accepted The book discusses the idea of representation of forms considers the major historical neural psychological and computational theories of form recognition and then concludes by presenting a modern approach to the problem In this book William Uttal continues his critical analysis of the foundations of modern psychology He is particularly concerned with the logical and conceptual foundations of visual perception and uses form recognition as a vehicle to rationalize the discrepancies between classic behaviorism and what we now appreciate are legitimate research areas *Psychomythics* William R. Uttal,2014-04-04 Psychology deals with the most complex subject

matter of any science As such it is subject to misunderstandings artifacts and just simple errors of data logic and interpretation This book teases out the details of some of the sources of these errors It considers errors in psychological data and theories that arise from confusing endogenous and exogenous causal forces in perceptual research misinterpreting the effects of inevitable natural laws as psychological phenomena improper application of statistics and measurement and flawed assumptions Examples of each of these sources of error are presented and discussed Finally the book concludes that a return to a revitalized kind of behaviorism is preferred rather than continuing on the current cognitive path

Time, Space, and Number in Physics and Psychology (Psychology Revivals) William R. Uttal, 2014-10-14 The crux of the debate between proponents of behavioral psychology and cognitive psychology focuses on the issue of accessibility Cognitivists believe that mental mechanisms and processes are accessible and that their inner workings can be inferred from experimental observations of behavior Behaviorists on the contrary believe that mental processes and mechanisms are inaccessible and that nothing important about them can be inferred from even the most cleverly designed empirical studies One argument that is repeatedly raised by cognitivists is that even though mental processes are not directly accessible this should not be a barrier to unravelling the nature of the inner mental processes and mechanisms Inference works for other sciences such as physics so why not psychology If physics can work so successfully with their kind of inaccessibility to make enormous theoretical progress then why not psychology As with most previous psychological debates there is no killer argument that can provide an unambiguous resolution In its absence author William Uttal explores the differing properties of physical and psychological time space and mathematics before coming to the conclusion that there are major discrepancies between the properties of the respective subject matters that make the analogy of comparable inaccessibilities a false one This title was first published in 2008

Dualism William R. Uttal, 2004-09-22 Directed to scholars and senior level graduate students this book is an iconoclastic survey of the history of dualism and its impact on contemporary cognitive psychology It argues that much of modern cognitive or mentalist psychology is built upon a cryptodualism the idea that the mind and brain can be thought of as independent entities This dualism pervades so much of society that it covertly influences many aspects of modern science particularly psychology To support the argument the history of dualism is extended over 100 000 years from the Paleolithic times until modern philosophical and psychological thinking The questions regarding this topic that are answered in the book are 1 Does dualism influence the scientific theories of psychology 2 If so should dualism be put aside in the search for a more objective analysis of human mentation

The War Between Mentalism and Behaviorism William R. Uttal, 1999-09 This book examines the question are mental processes accessible within the context of reviewing the past present and desirable future of behaviorism

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1993

Explanation Giora Hon, Sam S. Rakover, 2013-04-17 For some years we have been conducting at the University of Haifa an interdisciplinary seminar on explanation in philosophy and psychology We habitually begin the seminar

with some philosophical reflections on explanation an analysis of the concept and its metaphysical underpinnings We discuss the various models and proceed to examine explanation in the setting of psychology Thus from the outset we have focused not only on the concept itself but also on its application The objective that we have set for the seminar attended by students from both departments Philosophy and Psychology has been a critical understanding of the concept of explanation its use and limitations We were keen on deepening our understanding of the concept and on exploring its applications in fields of knowledge other than psychology This was the motivation for convening an international conference on explanation and its application The conference took place in the spring of 1998 under the auspices of the University of Haifa The present book is the fruit of this meeting The reader should note that the second part of the Introduction presents a detailed analytical account of the book We hope that this overview will facilitate efficient use of the book by directing the reader s attention to those issues that might be of interest to him or her

Mathematical Principles of Human Conceptual Behavior

Ronaldo Vigo, 2014-10-03 The ability to learn concepts lies at the very core of human cognition enabling us to efficiently classify organize identify and store complex information In view of the basic role that concepts play in our everyday physical and mental lives the fields of cognitive science and psychology face three long standing challenges discovering the laws that govern concept learning and categorization behavior in organisms showing how they inform other areas of cognitive research and describing them with the mathematical systematicity and precision found in the physical sciences In light of these theoretical and methodological shortcomings this volume will introduce a set of general mathematical principles for predicting and explaining conceptual behavior The author s theory is based on seven fundamental constructs of universal science invariance complexity information similarity dissimilarity pattern and representation These constructs are joined by a novel mathematical framework that does not depend on probability theory and derives key results from conceptual behavior research with other key areas of cognitive research such as pattern perception similarity assessment and contextual choice The result is a unique and systematic unifying foundation for cognitive science in the tradition of classical physics

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