Principles Of Cognitive Neuroscience Dale Purves

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Psychophysics Beyond Sensation - Christian Kaernbach 2004-05-20
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."
An Introduction to Personality, Individual Differences and Intelligence - Nick Haslam 2022-04-27
What does it mean to have a personality? Is emotional intelligence a kind of intelligence? Learn the answers to these questions, as well as everything you need to know about personality, intelligence, and individual differences in the third edition of this clear and accessible textbook. From natural selection to intelligence tests, and from personality disorders to the concept of IQ, the panoramic coverage of this field makes this textbook essential reading for any psychology student on a personality and individual differences course. New to this edition: · Increased coverage of intelligence · 'Key Theorists' feature · Discussion questions moved to end-of-chapter to enable in-text assessment Nick Haslam is Professor of Psychology at the University of Melbourne, Australia. Luke Smillie is an Associate Professor of Psychology at the University of Melbourne and director of the Personality Processes Lab.
The Psychology of Human Thought - Robert J. Sternberg 1988-02-26

Principles of Cognitive Neuroscience - Dale Purves 2008
This title informs readers at all levels about the growing canon of cognitive neuroscience, and makes clear the challenges that remain to be solved by the next generation.
Principles of Neural Science, Sixth Edition - Thomas M. Jessell 2021-03-19
Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The gold standard of neuroscience texts—updated with hundreds of brand-new images and fully revised content in every chapter With 300 new illustrations, diagrams, and radiology studies including PET scans, Principles of Neural Science, 6th Edition is the definitive guide for neuroscientists, neurologists, psychiatrists, students, and residents. Highly detailed chapters on stroke, Parkinson's, and MS build your expertise on these critical topics. Radiological studies the authors have chosen explain what's most important to know and understand for each type of stroke, progressive MS, or non-progressive MS. Features 2,200 images, including 300 new color illustrations, diagrams, and radiology studies (including PET scans) NEW: This edition now features only two contributors per chapter and are mostly U.S.-based NEW: Number of chapters streamlined down from 67 to 60 NEW: Chapter on Navigation and Spatial Memory NEW: New images in every chapter!
The Cognitive Neuroscience of Memory - Howard Eichenbaum 2011-12-21
Organized to provide a background to the basic cellular mechanisms of memory and by the major memory systems in the brain, this text offers an up-to-date account of our understanding of how the brain accomplishes the phenomenology of memory.
Neurophysiology - Roger Carpenter 2012-08-31
The latest edition of this well-established, accessible introduction to neurophysiology succeeds in integrating the disciplines of neurology and neuroscience with an emphasis on principles and functional concepts.In Neurophysiology: A Conceptual Approach, Fifth Edition, the authors deliver a refreshing alternative to "learning by rote," employing a
Foundations of Human Memory - Michael Jacob Kahana 2014-05-01
Foundations of Human Memory provides an introduction to the scientific study of human memory with an emphasis on both the major theories of memory and the laboratory studies that have been used to test those theories and inspire their further development. Written with the undergraduate student in mind, the text assumes no specific background in the subject, but a general familiarity with scientific method and quantitative approaches to the treatment of data. Foundations of human memory is organized around the major empirical paradigms used to study memory in the laboratory and the theories used to explain data obtained using those paradigms. The text begins with a focus on memory for individual items, building up to memory for associations between items, and finally to memory for entire sequences of items and the problem of memory search. Several major theories of memory are considered in detail, including strength theory, summed-similarity theory, neural network based theories, retrieved-context theory, and theories based on the division of memory into separate short-term and long-term storage systems. The text emphasizes basic research over applied problems, but brings in real-world examples and neuroscientific evidence as appropriate.
Development of the Nervous System - Dan H. Sanes 2005-11-02
Development of the Nervous System, Second Edition has been thoroughly revised and updated since the publication of the First Edition. It presents a broad outline of neural development principles as exemplified by key experiments and observations from past and recent times. The text is organized along a development pathway from the induction of the neural primordium to the emergence of behavior. It covers all the major topics including the patterning and growth of the nervous system, neuronal determination, axonal navigation and targeting, synapse formation and plasticity, and neuronal survival and death. This new text reflects the complete modernization of the field achieved through the use of model organisms and the

intensive application of molecular and genetic approaches. The original, artist-rendered drawings from the First Edition have all been redone and colorized to so that the entire text is in full color. This new edition is an excellent textbook for undergraduate and graduate level students in courses such as Neuroscience, Medicine, Psychology, Biochemistry, Pharmacology, and Developmental Biology. Updates information including all the new developments made in the field since the first edition Now in full color throughout, with the original, artist-rendered drawings from the first edition completely redone, revised, colorized, and updated

Welcome to Your Brain - Sandra Aamodt 2010-06-01

Does drinking really kill brain cells? Does listening to Mozart make your baby smarter? For all the mileage we've gotten from our own brains, most of us have essentially no idea how they work. We're easily susceptible to myths (like the "fact" that we use only 10% of our brains) and misconceptions (like the ones perpetrated by most Hollywood movies), probably because we've never known where to turn for the truth. But neurologists Sandra Aamodt and Sam Wang are glad to help. In this funny, accessible book, we get a guided tour of our own minds, what they're made of, how they work, and how they can go wrong. Along the way, we get a host of diagrams, quizzes, and "cocktail party tips" that shed light on the questions we nag each other about. (Can a head injury make you forget your own name? Are dolphins smarter than chimpanzees?) Fun and surprisingly engrossing, Welcome to Your Brain shows you how your brain works, and how you can make it work better.

Music as Biology - Dale Purves 2017-02-01

Why do human beings find some tone combinations consonant and others dissonant? Why do we make music using only a small number of scales out the billions that are possible? Dale Purves shows that rethinking music theory in biological terms offers a new approach to centuries-long debates about the organization and impact of music.

The Oxford Compendium of Visual Illusions - Arthur Gilman Shapiro 2017

Visual illusions are compelling phenomena that draw attention to the brain's capacity to construct our perceptual world. The Compendium is a collection of over 100 chapters on visual illusions, written by the illusion creators or by vision scientists who have investigated mechanisms underlying the phenomena. --

The History of Neuroscience in Autobiography - Larry R. Squire 2011-09-09

The seventh volume of The History of Neuroscience in Autobiography is a collection of autobiographical essays by distinguished senior neuroscientists in which they recount the events that shaped their lives and identify the mentors and colleagues who inspired them. The narratives provides a human dimension to the world of scientific research.

Neuroscience - Dale Purves 2012

This classic textbook guides students through the challenges and excitement of the rapidly changing field of neuroscience. Accessible for both medical students and undergraduate neuroscience students, the 5th edition has been updated throughout to reflect the latest developments.

The Biological Mind - Alan Jasanoff 2018-03-13

A pioneering neuroscientist argues that we are more than our brains To many, the brain is the seat of personal identity and autonomy. But the way we talk about the brain is often rooted more in mystical conceptions of the soul than in scientific fact. This blinds us to the physical realities of mental function. We ignore bodily influences on our psychology, from chemicals in the blood to bacteria in the gut, and overlook the ways that the environment affects our behavior, via factors varying from subconscious sights and sounds to the weather. As a result, we alternately overestimate our capacity for free will or equate brains to inorganic machines like computers. But a brain is neither a soul nor an electrical network: it is a bodily organ, and it cannot be separated from its surroundings. Our selves aren't just inside our heads--they're spread throughout our bodies and beyond. Only once we come to terms with this can we grasp the true nature of our humanity.

Neuroergonomics - Raja Parasuraman 2008-02-13

Neuroergonomics can be defined as the study of brain and behavior at work. It combines two disciplines--neuroscience, the study of brain function, and human factors, the study of how to match technology with the capabilities and limitations of people so they can work effectively and safely. The goal of merging these two fields is to use the startling discoveries of human brain and physiological functioning both to inform the design of technologies in the workplace and home, and to provide new training methods that enhance performance, expand capabilities, and opitimize the fit between people and technology. Research in the area of neuroergonomics has blossomed in recent years with the emergence of noninvasive techniques for monitoring human brain function that cna be used to study various aspects of human behavior in relation to technology and work, including mental workload, visual attention, working memory, motor control, human-automation interaction, and adaptive automation. This volume will provide the first systematic overview of this emerging area, describing the theoretical background, basic research, major methods, as well as the new and future areas of application. This collection will benefit a number of readers: the experienced researcher investigating related questions in human factors and cognitive neuroscience, the student wishing to get a rapid but systematic overview of the field, and the designer interested in novel approaches and new ideas for application. Researchers in human factors and ergonomics, neuroscience, cognitive psychology, medicine, industrial engineering, and computer science will find this volume most helpful.

Inner Experience and Neuroscience - Donald D. Price 2012-08-03

A proposal for merging a science of human consciousness with neuroscience and psychology. The study of consciousness has advanced rapidly over the last two decades. And yet there is no clear path to creating models for a direct science of human experience or for integrating its insights with those of neuroscience, psychology, and philosophy. In Inner Experience and Neuroscience, Donald Price and James Barrell show how a science of human experience can be developed through a strategy that integrates experiential paradigms with methods from the natural sciences. They argue that the accuracy and results of both psychology and neuroscience would benefit from an experiential perspective and methods. Price and Barrell describe phenomenologically based methods for scientific research on human experience, as well as their philosophical underpinnings, and relate these to empirical results associated with such phenomena as pain and suffering, emotions, and volition. They argue that the methods of psychophysics are critical for integrating experiential and natural sciences, describe how qualitative and quantitative methods can be merged, and then apply this approach to the phenomena of pain, placebo responses, and background states of consciousness. In the course of their argument, they draw on empirical results that include qualitative studies, quantitative studies, and neuroimaging studies. Finally, they propose that the integration of experiential and natural science can extend efforts to understand such difficult issues as free will and complex negative emotions including jealousy and greed.

Studyguide for Principles of Cognitive Neuroscience by Purves, Dale, Isbn 9780878935734 - Cram101 Textbook Reviews 2013-12

Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780878935734. This item is printed on demand.

Functional Magnetic Resonance Imaging - Scott A. Huettel 2004

Basic Vision - Robert Snowden 2012-02-09

If you've ever been tricked by an optical illusion, you'll have some idea about just how clever the relationship between your eyes and your brain is. This book leads one through the intricacies of the subject and demystifying how we see.

Principles of Neural Development - Dale Purves 1985

Neuroscience - Dale Purves 2001-01-01

Neuroscience, Second Edition offers a host of new features: Sylvius 2.0, an interactive CD-ROM atlas of the human nervous system (included with every copy); new chapters on Intracellular Signal Transduction and The Visceral Motor System; expanded coverage of non-human neurobiology; several new boxes (e.g., Multiple Sclerosis, Diseases that Affect the Presynaptic Terminal, Phylogenetic Memory); and a thoroughly revised full-color art program by S. Mark Williams.

Principles of Neural Science - Eric R. Kandel 1991

Perceiving Geometry - Catherine Q. Howe 2005-12-06
During the last few centuries, natural philosophers, and more recently vision scientists, have recognized that a fundamental problem in biological vision is that the sources underlying visual stimuli are unknowable in any direct sense, because of the inherent ambiguity of the stimuli that impinge on sensory receptors. The light that reaches the eye from any scene conflates the contributions of reflectance, illumination, transmittance, and subsidiary factors that affect these primary physical parameters. Spatial properties such as the size, distance and orientation of physical objects are also conflated in light stimuli. As a result, the provenance of light reaching the eye at any moment is uncertain. This quandary is referred to as the inverse optics problem. This book considers the evidence that the human visual system solves this problem by incorporating past human experience of what retinal images have typically corresponded to in the real world.
The Student's Guide to Cognitive Neuroscience - Jamie Ward 2015-02-11
Reflecting recent changes in the way cognition and the brain are studied, this thoroughly updated third edition of the best-selling textbook provides a comprehensive and student-friendly guide to cognitive neuroscience. Jamie Ward provides an easy-to-follow introduction to neural structure and function, as well as all the key methods and procedures of cognitive neuroscience, with a view to helping students understand how they can be used to shed light on the neural basis of cognition. The book presents an up-to-date overview of the latest theories and findings in all the key topics in cognitive neuroscience, including vision, memory, speech and language, hearing, numeracy, executive function, social and emotional behaviour and developmental neuroscience, as well as a new chapter on attention. Throughout, case studies, newspaper reports and everyday examples are used to help students understand the more challenging ideas that underpin the subject. In addition each chapter includes: Summaries of key terms and points Example essay questions Recommended further reading Feature boxes exploring interesting and popular questions and their implications for the subject. Written in an engaging style by a leading researcher in the field, and presented in full-color including numerous illustrative materials, this book will be invaluable as a core text for undergraduate modules in cognitive neuroscience. It can also be used as a key text on courses in cognition, cognitive neuropsychology, biopsychology or brain and behavior. Those embarking on research will find it an invaluable starting point and reference. The Student’s Guide to Cognitive Neuroscience, 3rd Edition is supported by a companion website, featuring helpful resources for both students and instructors.
50 Psychology Ideas You Really Need to Know - Adrian Furnham 2013-10-01
How different are men and women's brains? Does altruism really exist? Are our minds blank slates at birth? And do dreams reveal our unconscious desires? If you have you ever grappled with these concepts, or tried your hand as an amateur psychologist, 50 Psychology Ideas You Really Need to Know could be just the book for you. Not only providing the answers to these questions and many more, this series of engaging and accessible essays explores each of the central concepts, as well as the arguments of key thinkers. Author Adrian Furnham offers expert and concise introductions to emotional behavior, cognition, mentalconditions--from stress to schizophrenia--rationality and personality development, amongst many others. This is a fascinating introduction to psychology for anyone interested in understanding the human mind.
Brains as Engines of Association - Dale Purves 2019-04-01
Brains as Engines of Association tackles a fundamental question in neuroscience: what is the operating principle of the human brain? While a similar question has been asked and answered for virtually every other human organ during the last few centuries, how the brain operates has remained a central challenge in biology. Based on evidence derived from vision, audition, speech and music--much of it based on the author's own work over the last twenty years--Brains as Engines of Association argues that brains operate wholly on the basis of trial and error experience, encoded in neural circuitry over evolutionary and individual time. This concept of neural function runs counter to current concepts that view the brain as a computing machine, and research programs based on the idea that the only way to answer such questions is by reconstructing the connectivity of brains in their entirety. This view also implies that the best way to understand the details of brain function is to recapitulate their history using artificial neural networks. While this viewpoint has received support in the last few years from work showing that computers can win complex games, the brain plays a much more complex game--the "game" of biological survival--which Purves concludes is based on trial-and-error experience.
Sylvius 4 - Stephen Mark Williams 2007-06-30
... features fully annotated surface views of the human brain, as well as interactive tools for dissection the central nervous system and viewing fully annotated cross-sections of preserved specimens and living subjects imaged by magnetic resonance... it incorporates a comprehensive, visually-rich, searchable database of more than 500 neuranatomical terms that are concisely defined and visualitzed in photographs, magnetic resonance images, and illustrations.
Principles of Cognitive Neuroscience - Dale Purves 2008
This title informs readers at all levels about the growing canon of cognitive neuroscience, and makes clear the challenges that remain to be solved by the next generation.
Cognitive Neuroscience - Marie T. Banich 2018-04-05
Updated fully, this accessible and comprehensive text highlights the most important theoretical, conceptual and methodological issues in cognitive neuroscience. Written by two experienced teachers, the consistent narrative ensures that students link concepts across chapters, and the careful selection of topics enables them to grasp the big picture without getting distracted by details. Clinical applications such as developmental disorders, brain injuries and dementias are highlighted. In addition, analogies and examples within the text, opening case studies, and 'In Focus' boxes engage students and demonstrate the relevance of the material to real-world concerns. Students are encouraged to develop the critical thinking skills that will enable them to evaluate future developments in this fast-moving field. A new chapter on Neuroscience and Society considers how cognitive neuroscience issues relate to the law, education, and ethics, highlighting the clinical and real-world relevance. An expanded online package includes a test bank.
Principles of Behavioral and Cognitive Neurology - M.-Marsel Mesulam 2000-01-27
This thoroughly revised new edition of a classic book provides a clinically inspired but scientifically guided approach to the biological foundations of human mental function in health and disease. It includes authoritative coverage of all the major areas related to behavioral neurology, neuropsychology, and neuropsychiatry. Each chapter, written by a world-renowned expert in the relevant area, provides an introductory background as well as an up-to-date review of the most recent developments. Clinical relevance is emphasized but is placed in the context of cognitive neuroscience, basic neuroscience, and functional imaging. Major cognitive domains such as frontal lobe function, attention and neglect, memory, language, prosody, complex visual processing, and object identification are reviewed in detail. A comprehensive chapter on behavioral neuroanatomy provides a background for brain-behavior interactions in the cerebral cortex, limbic system, basal ganglia, thalamus, and cerebullum. Chapters on temperolimbic epilepsy, major psychiatric syndromes, and dementia provide in-depth analyses of these neurobehavioral entities and their neurobiological coordinates. Changes for this second edition include the reflection throughout the book of the new and flourishing alliance of behavioral neurology, neuropsychology, and neuropsychiatry with cognitive science;major revision of all chapters; new authorship of those on language and memory; and the inclusion of entirely new chapters on psychiatric syndromes and the dementias. Both as a textbook and a reference work, the second edition of Principles of Behavioral and Cognitive Neurology represents an invaluable resource for behavioral neurologists, neuropsychologists, neuropsychiatrists, cognitive and basic neuroscientists, geriatricians, physiatrists, and their students and trainees.
Neuroscience For Dummies - Frank Amthor 2016-04-14
Get on the fast track to understanding neuroscience Investigating how your senses work, how you move, and how you think and feel, Neuroscience For Dummies, 2nd Edition is your straight-forward guide to the most complicated structure known in the universe: the brain. Covering the most recent scientific discoveries and complemented with helpful diagrams and engaging anecdotes that help bring the information to life, this updated edition offers a compelling and plain-English look at how the brain and nervous system function. Simply put, the human brain is an endlessly fascinating subject: it holds the secrets to your personality, use of language, memories, and the way your body operates. In just the past few years alone, exciting new technologies and an explosion of knowledge have transformed the field of neuroscience—and this friendly guide is here to serve as your roadmap to the latest findings and research.

Packed with new content on genetics and epigenetics and increased coverage of hippocampus and depression, this new edition of Neuroscience For Dummies is an eye-opening and fascinating read for readers of all walks of life. Covers how gender affects brain function Illustrates why some people are more sensitive to pain than others Explains what constitutes intelligence and its different levels Offers guidance on improving your learning What is the biological basis of consciousness? How are mental illnesses related to changes in brain function? Find the answers to these and countless other questions in Neuroscience For Dummies, 2nd Edition

Neuroscience- Fifth Edition - George J. Augustine Dale Purves 2011-11-25

Cognitive Neuroscience - R. E. Passingham 2016

This volume describes the new field of cognitive neuroscience - the study of what happens in the brain when we perceive, think, reason, remember, and act. Focusing on the human brain, Passingham looks at the most recent research in the field, the modern brain imaging technologies, and what the images can and can't tell us.

Neuroscience 6th Edition - Purves 2017-10-12

The Hippocampus Book - Per Andersen 2007

The hippocampus is one of a group of remarkable structures embedded within the brains medial temporal lobe. Long known to be important for memory, it has been a prime focus of neuroscience research for many years. This volume offers an account of what the hippocampus does, and what happens when things go wrong.--[Source inconnue].

Cognitive Systems - Information Processing Meets Brain Science - Richard G.M. Morris 2005-08-16

Cognitive Systems - Information Processing Meets Brain Science presents an overview of the exciting, truly multidisciplinary research by neuroscientists and systems engineers in the emerging field of cognitive systems, providing a cross-disciplinary examination of this cutting-edge area of scientific research. This is a great example of where research in very different disciplines touches to create a new emerging area of research. The book illustrates some of the technical developments that could arise from our growing understanding of how living cognitive systems behave, and the ability to use that knowledge in the design of artificial systems. This unique book is of considerable interest to researchers and students in information science, neuroscience, psychology, engineering and adjacent fields. Represents a remarkable collection of relevant experts from both the life sciences and computer science Includes state-of-the-art reviews of topics in cognitive systems from both a life sciences and a computer science perspective Discusses the impact of this research on our lives in the near future

Sensory Perception - Friedrich G. Barth 2012-10-13

Sensory perception: mind and matter aims at a deeper understanding of the many facets of sensory perception and their relations to brain function and cognition. It is an attempt to promote the interdisciplinary discourse between the neurosciences and psychology, which speaks the language of cognitive experiences, and philosophy, which has been thinking about the meaning and origin of consciousness since its beginning. Leading experts contribute to such a discourse by informing the reader about exciting modern developments, both technical and conceptual, and by pointing to the big gaps still to be bridged. The various chapters provide access to scientific research on sensory perception and the mind from a broad perspective, covering a large spectrum of topics which range from the molecular mechanisms at work in sensory cells to the study of the unconscious and to neurophilosophy.

Neuroconstructivism: How the brain constructs cognition - Denis Mareschal 2007

What are the processes, from conception to adulthood, that enable a single cell to grow into a sentient adult? This work sets out a whole new framework for considering the complex topic of development, integrating data from cognitive studies, computational work, and neuroimaging.

Principles of Neurobiology - Liqun Luo 2020-09-05

Principles of Neurobiology, Second Edition presents the major concepts of neuroscience with an emphasis on how we know what we know. The text is organized around a series of key experiments to illustrate how scientific progress is made and helps upper-level undergraduate and graduate students discover the relevant primary literature. Written by a single author in a clear and consistent writing style, each topic builds in complexity from electrophysiology to molecular genetics to systems level in a highly integrative approach. Students can fully engage with the content via thematically linked chapters and will be able to read the book in its entirety in a semester-long course. Principles of Neurobiology is accompanied by a rich package of online student and instructor resources including animations, figures in PowerPoint, and a Question Bank for adopting instructors.