

Neuroanatomical Correlates Of Aesthetic Preference For

Multimodal Oscillation-based Connectivity Theory Brain and Art Neurological Disorders in Famous Artists Neuropsychology of Art The Literary Animal Neurological Foundations of Cognitive Neuroscience Psychology Science Neuromarketing Positive Neuroscience The Function of Emotions In touch with the future ell linguaggio crea mondi. Esplorazioni sulla natura dell'esperienza estetica e creativa The SAGE Handbook of Social Cognition Engineering Psychology and Cognitive Ergonomics Information Systems and Neuroscience Well-Being Neuroaesthetics Language, Music, and the Brain Human Characteristics Learning, Arts, and the Brain Brain and Art Encyclopedia of Human Behavior Experiencing Art Aesthetics and Psychobiology Product Experience Culture and Neural Frames of Cognition and Communication Why Choose this Book? Neurobiology of Sensation and Reward Vision and Art (Updated and Expanded Edition) The Aesthetic Brain The Cambridge Handbook of the Psychology of Aesthetics and the Arts The Aesthetic Mind New Directions in Aesthetics, Creativity, and the Arts Art, Aesthetics, and the Brain Aesthetic Science Aesthetic Experience Embodied Aesthetics Modern Techniques in Neuroscience Research Human Evolution

Multimodal Oscillation-based Connectivity Theory

Brain and Art

How do we thrive in our behaviors and experiences? Positive neuroscience research illuminates the brain mechanisms that enable human flourishing. Supported by the John Templeton Foundation's Positive Neuroscience Project, which Martin E. P. Seligman established in 2008, Positive Neuroscience provides an intersection between neuroscience and positive psychology. In this edited volume, leading researchers describe the neuroscience of social bonding, altruism, and the capacities for resilience and creativity. Part I (Social Bonds) describes the mechanisms that enable humans to connect with one another. Part II (Altruism) focuses on the neural mechanisms underlying the human ability and willingness to confer costly benefits on others. Part III (Resilience and Creativity) examines the mechanisms by which human brains overcome adversity, create, and discover. Specific topics include: a newly discovered nerve type that appears to be specialized for emotional communication; the effects of parenting on the male brain; how human altruism differs from that of other primates; the neural features of extraordinary altruists who have donated kidneys to strangers; and distinctive patterns of brain wiring that endow some people with exceptional musical abilities. Accessible to a broad academic audience, from advanced undergraduates to senior scholars, these subjects have generated a fascinating and highly convergent set of ideas and results, shaping our understanding of human nature.

Neurological Disorders in Famous Artists

This book analyzes and discusses in detail art therapy, a specific tool used to sustain health in affective developments, rehabilitation, motor skills and cognitive functions. Art therapy is based on the assumption that the process of making art (music, dance, painting) sparks emotions and enhances brain activity. Art therapy is used to encourage personal growth, facilitate particular brain areas or activity patterns, and improve neural connectivity. Treating neurological diseases using artistic strategies offers us a unique option for engaging brain structural networks that enhance the brain's ability to form new connections. Based on brain plasticity, art therapy has the potential to increase our repertoire for treating neurological diseases. Neural substrates are the basis of complex emotions relative to art experiences, and involve a widespread activation of cognitive and motor systems. Accordingly, art therapy has the capacity to modulate behavior, cognition, attention and movement. In this context, art therapy can offer effective tools for improving general well-being, quality of life and motivation in connection with neurological diseases. The book discusses art therapy as a potential group of techniques for the treatment of neurological disturbances and approaches the relationship between humanistic disciplines and neurology from a holistic perspective, reflecting the growing interest in this interconnection.

Neuropsychology of Art

The Literary Animal

The Encyclopedia of Human Behavior, Second Edition is an award-winning three-volume reference on human action and reaction, and the thoughts, feelings, and physiological functions behind those actions. Presented alphabetically by title, 300 articles probe both enduring and exciting new topics in physiological psychology, perception, personality, abnormal and clinical psychology, cognition and learning, social psychology, developmental psychology, language, and applied contexts. Written by leading scientists in these disciplines, every article has been peer-reviewed to establish clarity, accuracy, and comprehensiveness. The most comprehensive reference source to provide both depth and breadth to the study of human behavior, the encyclopedia will again be a much-used reference source. This set appeals to public, corporate, university and college libraries, libraries in two-year colleges, and some secondary schools. Carefully crafted, well written, and thoroughly indexed, the encyclopedia helps users—whether they are students just beginning formal study of the broad field or specialists in a branch of psychology—understand the field and how and why humans behave as we do. Named a 2013 Outstanding Academic Title by the American Library Association's Choice publication Concise entries (ten pages on average) provide foundational knowledge of the field Each article features suggested further readings, a list of related websites, a 5-10 word glossary and a definition paragraph, and cross-references to related articles in the encyclopedi Newly expanded editorial board and a host of international contributors from the United States, Australia, Belgium, Canada, France, Germany, Ireland, Israel, Japan, Sweden, and the United Kingdom

Neurological Foundations of Cognitive Neuroscience

Cultural neuroscience combines brain imaging techniques such as functional magnetic resonance imaging and event-related brain potentials with methods of social and cultural psychology to investigate whether and how cultures influence the neural mechanisms of perception, attention, emotion, social cognition, and other human cognitive processes. The findings of cultural neuroscience studies improve our understanding of the relation between human brain function and sociocultural contexts and help to reframe the “big question” of nature versus nurture. This book is organized so that two chapters provide general views of the relation between biological evolution, cultural evolution and recent cultural neuroscience studies, while other chapters focus on several aspects of human cognition that have been shown to be strongly influenced by sociocultural factors such as self-concept representation, language processes, emotion, time perception, and decision-making. The main goal of this work is to address how thinking actually takes place and how the underlying neural mechanisms are affected by culture and identity.

Psychology Science

Over the last 10 years advances in the new field of neuromarketing have yielded a host of findings which defy common stereotypes about consumer behavior. Reason and emotions do not necessarily appear as opposing forces. Rather, they complement one another. Hence, it reveals that consumers utilize mental accounting processes different from those assumed in marketers' logical inferences when it comes to time, problems with rating and choosing, and in post-purchase evaluation. People are often guided by illusions not only when they perceive the outside world but also when planning their actions - and consumer behavior is no exception. Strengthening the control over their own desires and the ability to navigate the maze of data are crucial skills consumers can gain to benefit themselves, marketers and the public. Understanding the mind of the consumer is the hardest task faced by business researchers. This book presents the first analytical perspective on the brain - and biometric studies which open a new frontier in market research.

Neuromarketing

Humans have engaged in artistic and aesthetic activities since the appearance of our species. Our ancestors have decorated their bodies, tools, and utensils for over 100,000 years. The expression of meaning using color, line, sound, rhythm, or movement, among other means, constitutes a fundamental aspect of our species' biological and cultural heritage. Art and aesthetics, therefore, contribute to our species identity and distinguish it from its living and extinct relatives. This volume brings together the work on such questions by leading experts in genetics, psychology, neuroimaging, neuropsychology, art history, and philosophy. It sets the stage for a cognitive neuroscience of art and aesthetics, understood in the broadest possible terms. With sections on visual art, dance, music, neuropsychology, and evolution, the breadth of this volume's scope reflects the richness and variety of topics and methods currently used today by scientists to understand the way our brain endows us with the faculty to produce and appreciate art and aesthetics.

Positive Neuroscience

To the list of writers connecting mainstream readers and cutting-edge science ;Malcolm Gladwell, Steven Johnson, James Surowiecki ;add Read Montague, with this exploration of what exactly determines the choices we make. With a new perspective on the science of decision-making from the researcher at the center of the computational neuroscience revolution, Why Choose This Book?shows what the latest brain science reveals about the crucial events of everyday experience ;the choices we make. From how we decide what we consume to what kind of art we like, and even the romantic, ethical, and financial choices we make, Read Montague guides the reader through a new approach to the mind with an accessible style that is both entertaining and illuminating. In taking apart the mind's decision-making machinery, Montague first illustrates how our brains are like computers that are slow, small, fuzzy, and cheap ;and began with goals like food, water, and sex. Second, he reveals how simple goals like these then turn into ideas like beauty, love, and terror with a life of their own. Finally, he explains how a value system in our heads controls those ideas so we can make good decisions ;and how that physical system can break down leading to bad decisions, addictions, mental illness, and even large economic disasters.

The Function of Emotions

Out of all the human senses, touch is the one that is most often unappreciated, and undervalued. Yet, the surface of the human body, the skin, is actually one huge sheet of tactile receptors. It provides us with the means to connect with our surroundings. Despite the important role that vision plays in our everyday lives, it is the skin that constitutes both the oldest, and by far the largest of our sense organs. The skin protects our body from the external world and, at the same time, informs us about what occurs on its surface. In Touch With The Future explores the science of touch, bringing together the latest findings from cognitive neuroscience about the processing of tactile information in humans. The book provides a comprehensive overview of scientific knowledge regarding themes such as tactile memory, tactile awareness (consciousness), tactile attention, the role of touch in interpersonal and sexual interactions, and the neurological substrates of touch. It highlights the many ways in which our growing understanding of the world of touch can, and in some cases already are, being applied in the real world in everything from the development of virtual reality (VR) environments, tablet PCs, mobile phones, and even teledildonics - the ultimate frontier in terms of adult entertainment. In addition, the book shows how the cognitive neuroscience approach to the study of touch can be applied to help improve the design of many real-world applications/products as well as to many of our everyday experiences, such as those related to the appreciation of food, marketing, packaging design, the development of enhanced sensory substitution systems, art, and man-machine interfaces. Crucially, the authors makes a convincing argument for the view that one cannot really understand touch, especially not in a real-world context, without placing it in a multisensory context. That is, the senses interact to influence tactile perception in everything - from changing the feel of a surface or product by changing the sound it makes or the fragrance it has. For students and researchers in the brain sciences, this book presents a valuable and fascinating exploration into one of our least understood senses

In touch with the future

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Il linguaggio crea mondi. Esplorazioni sulla natura dell'esperienza estetica e creativa

Fully updated, the second edition of *Neuropsychology of Art* offers a fascinating exploration of the brain regions and neuronal systems which support artistic creativity, talent and appreciation. This landmark book is the first to draw upon neurological, evolutionary, and cognitive perspectives, and to provide an extensive compilation of neurological case studies of professional painters, composers and musicians. The book presents evidence from the latest brain research, and develops a multidisciplinary approach, drawing upon theories of brain evolution, biology of art, art trends, archaeology, and anthropology. It considers the consequences of brain damage to the creation of art and the brain's control of art. The author delves into a variety of neurological conditions in established artists, including unilateral stroke, dementia, Alzheimer's Disease, Parkinson's Disease, and also evidence from savants with autism. Written by a leading neuropsychologist, *Neuropsychology of Art* will be of great interest to students and researchers in neuropsychology, cognitive psychology, neuroscience, and neurology, and also to clinicians in art therapy.

The SAGE Handbook of Social Cognition

This book is intended as a comprehensive overview of hominid evolution, synthesising data and approaches from physical anthropology, genetics, archaeology, psychology and philosophy. Human evolution courses are now widespread and this book has the potential to satisfy the requirements of most, particularly at the advanced undergraduate and graduate level. It is based on a translation, albeit with substantial modification, of a successful Spanish language book.

Engineering Psychology and Cognitive Ergonomics

The *Aesthetic Mind* breaks new ground in bringing together empirical sciences and philosophy to enhance our understanding of aesthetics and the experience of art. An eminent international team of experts presents new research in philosophy, psychology, neuroscience, and social anthropology: they explore the roles of emotion, imagination, empathy, and beauty in this realm of human experience, ranging over visual and literary art, music, and dance. Among the questions discussed are: Why do we engage with things aesthetically and why do we create art? Does art or aesthetic experience have a function or functions? Which characteristics distinguish aesthetic mental states? Which skills or abilities do we put to use when we engage aesthetically with an object and how does that compare with non-aesthetic experiences? What does our ability to create art and engage aesthetically with things tell us about what it is to be a human being? This ambitious and far-reaching volume is essential reading for anyone investigating the aesthetic and the artistic.

Information Systems and Neuroscience

The goal of this book is to overcome some of the widespread misunderstandings about the meaning of a Darwinian approach to the human mind generally, and literature specifically.

Well-Being

What do we do when we view a work of art? What does it mean to have an "aesthetic" experience? Are such experiences purely in the eye (and brain) of the beholder? Such questions have entertained philosophers for millennia and psychologists for over a century. More recently, with the advent of functional neuroimaging methods, a handful of ambitious brain scientists have begun to explore the neural correlates of such experiences. This book offers an introduction to the way art is perceived, interpreted, and felt and approaches these mindful events from a multidisciplinary perspective.

Neuroaesthetics

A Harvard neurobiologist explains how vision works, citing the scientific origins of artistic genius and providing coverage of such topics as optical illusions and the correlation between learning disabilities and artistic skill.

Language, Music, and the Brain

Systems-level neuronal mechanisms that coordinate the temporally, anatomically, and functionally distributed neuronal activity into coherent cognitive operations in the human brain have remained poorly understood. In humans, neuronal oscillations and synchronization can be recorded non-invasively with electro- and magnetoencephalography (EEG and MEG) that have excellent temporal resolution and an adequate spatial resolution when combined with source-reconstruction methods. In this book, leading authors in the field describe how recent methodological advances have paved the way to several major breakthroughs in the observations of large-scale synchrony from human non-invasive MEG data. This volume also presents the caveats influencing analyses of synchronization. These include the non-homogeneous sensitivity of MEG to superficial cortical sources, and, most importantly, the multitude of consequences of linear mixing. Linear mixing is an immense confounder in the sensor-level analyses of synchronization, but is also present at the source level. Approaches that can be used to avoid or compensate for these issues are then discussed. Thereafter, several authors take up a number of the functional roles that large-scale synchronization has in cognition. The authors assess how the spatio-temporal and -spectral organization and strength of both local and large-scale synchronized networks are associated with conscious sensory perception, visual working memory functions, and attention. These chapters summarize several lines of research showing how the strength of local and inter-areal oscillations in both cortical and subcortical brain structures is correlated with cognitive functions. Together these data suggest that synchronized neuronal oscillations may be a systems-level neuronal mechanism underlying the coordination of distributed processing in human cognition. In line

with this argument, other authors go on to describe how oscillations and synchronization are altered in clinical populations, complementing the data presented on healthy subjects. Importantly, this book includes chapters from authors using many different approaches to the analyses of neuronal oscillations, ranging from local oscillatory activities to the usage of graph theoretical tools in the analyses of synchronization. In this way the present volume provides a comprehensive view on the analyses and functional significance of neuronal oscillations in humans. This book is aimed at doctoral and post-doctoral students as well as research scientists in the fields of cognitive neuroscience, psychology, medicine, and neurosciences.

Human Characteristics

A review of a broad range of neurobehavioral syndromes from both neurological and cognitive neuroscientific perspectives. Despite dramatic advances in neuroimaging techniques, patient-based analyses of brain disorders continue to offer important insights into the functioning of the normal brain. Bridging the gap between the work of neurologists studying clinical disorders and neuroscientists studying the neural mechanisms underlying normal cognition, this book reviews classical neurobehavioral syndromes from both neurological and cognitive scientific perspectives. The contributors are all practicing neurologists who also conduct cognitive neuroscience research. Each chapter begins with a case study, describing the patient's symptoms and the cognitive processes involved. The clinical descriptions are followed by historical background on the neurobehavioral syndromes and discussion of the methods used to understand the underlying neural mechanisms. In their attempts to reconcile conflicting data derived from different methodologies, many of the authors shed new light on the cognitive mechanisms they discuss. The syndromes include neglect, Balint's syndrome, amnesia, semantic dementia, topographical disorientation, acquired dyslexia, acalculia, transcortical motor aphasia, Wernicke's aphasia, apraxia, and lateral prefrontal syndrome.

Learning, Arts, and the Brain

Brain and Art

Product Experience brings together research that investigates how people experience products: durable, non-durable, or virtual. In contrast to other books, the present book takes a very broad, possibly all-inclusive perspective, on how people experience products. It thereby bridges gaps between several areas within psychology (e.g. perception, cognition, emotion) and links these areas to more applied areas of science, such as product design, human-computer interaction and marketing. The field of product experience research will include some of the research from four areas: Arts, Ergonomics, Technology, and Marketing. Traditionally, each of these four fields seems to have a natural emphasis on the human (ergonomics and marketing), the product (technology) or the experience (arts). However, to fully understand human product experience, we need to use different approaches and we need to build bridges between these various fields of

expertise. Most comprehensive collection of psychological research behind product design and usability Consistently addresses the 3 components of human-product experience: the human, the product, and the experience International contributions from experts in the field

Encyclopedia of Human Behavior

The psychology of aesthetics and the arts is dedicated to the study of our experiences of the visual arts, music, literature, film, performances, architecture and design; our experiences of beauty and ugliness; our preferences and dislikes; and our everyday perceptions of things in our world. The Cambridge Handbook of the Psychology of Aesthetics and the Arts is a foundational volume presenting an overview of the key concepts and theories of the discipline where readers can learn about the questions that are being asked and become acquainted with the perspectives and methodologies used to address them. The psychology of aesthetics and the arts is one of the oldest areas of psychology but it is also one of the fastest growing and most exciting areas. This is a comprehensive and authoritative handbook featuring essays from some of the most respected scholars in the field.

Experiencing Art

Could we understand, in biological terms, the unique and fantastic capabilities of the human brain to both create and enjoy art? In the past decade neuroscience has made a huge leap in developing experimental techniques as well as theoretical frameworks for studying emergent properties following the activity of large neuronal networks. These methods, including MEG, fMRI, sophisticated data analysis approaches and behavioral methods, are increasingly being used in many labs worldwide, with the goal to explore brain mechanisms corresponding to the artistic experience. The 37 articles composing this unique Frontiers Research Topic bring together experimental and theoretical research, linking state-of-the-art knowledge about the brain with the phenomena of Art. It covers a broad scope of topics, contributed by world-renowned experts in vision, audition, somato-sensation, movement, and cinema. Importantly, as we felt that a dialog among artists and scientists is essential and fruitful, we invited a few artists to contribute their insights, as well as their art. Joan Miró said that “art is the search for the alphabet of the mind.” This volume reflects the state of the art search to understand neurobiological alphabet of the Arts. We hope that the wide range of articles in this volume will be highly attractive to brain researchers, artists and the community at large.

Aesthetics and Psychobiology

The SAGE Handbook of Social Cognition is a landmark volume. Edited by two of the field's most eminent academics and supported by a distinguished global advisory board, the 56 authors - each an expert in their own chapter topic - provide authoritative and thought-provoking overviews of this fascinating territory of research. Not since the early 1990s has a Handbook been published in this field, now, Fiske and Macrae have provided a timely and seminal benchmark; a state of

the art overview that will benefit advanced students and academics not just within social psychology but beyond these borders too. Following an introductory look at the 'uniqueness of social cognition', the Handbook goes on to explore basic and underlying processes of social cognition, from implicit social cognition and consciousness and meta-cognition to judgment and decision-making. Also, the wide-ranging applications of social cognition research in 'the real world' from the burgeoning and relatively recent fields of social cognitive development and social cognitive aging to the social cognition of relationships are investigated. Finally, there is a critical and exciting exploration of the future directions in this field. The SAGE Handbook of Social Cognition will be an indispensable volume for any advanced student or academic wanting or needing to understand the landscape of social cognition research in the 21st century.

Product Experience

The beginning of psychological aesthetics is normally traced back to the publication of Gustav Theodor Fechner's seminal book "Vorschule der Aesthetik" in 1876. Following in the footsteps of this rich tradition, editors Martin Skov and Oshin Vartanian view neuroaesthetics - the emerging field of inquiry concerned with uncovering the ways in which aesthetic behavior is caused by brain processes - as a natural extension of Fechner's 'empirical spirit' to understand the link between the objective and subjective worlds inherent in aesthetic experience. The editors had two specific aims for this book. The first was to highlight the diversity of approaches that are underway under the banner of neuroaesthetics. Currently, this topic is being investigated from experimental, evolutionary, neuropsychological, and neuroimaging perspectives to tackle problems in the visual arts, literature, music, and film. Its quintessentially interdisciplinary nature has functioned as a breeding ground for generating and testing hypotheses in multiple domains. The second goal was more integrative and involved distilling some of the key features common to these diverse strands of work. The book presents a possible framework for neuroaesthetics by highlighting what the contributors consider to be its defining features and offering a working definition of neuroaesthetics that captures these features. "Neuroaesthetics" will provide an empirical and theoretical framework to motivate further work in this area. Ultimately, the hope is that puzzles in aesthetics can be solved through insights from biology, but that the contribution can be truly bidirectional.

Culture and Neural Frames of Cognition and Communication

How do we appreciate a work of art? Why do we like some artworks but not others? Is there no accounting for taste? Awarded a Guggenheim Fellowship to explore connections between art, mind, and brain, Shimamura considers how we experience art. In a thoughtful and entertaining manner, the book explores how the brain interprets art by engaging our sensations, thoughts, and emotions. It describes interesting findings from psychological and brain sciences as a way to understand our aesthetic response to art. Beauty, disgust, surprise, anger, sadness, horror, and a myriad of other emotions can occur as we experience art. Some artworks may generate such feelings rather quickly, while others depend on thought and knowledge. Our response to art depends largely on what we know--from everyday knowledge about the world, from our cultural backgrounds,

and from personal experience. Filled with artworks from many traditions and time points, "Experiencing Art" offers insightful ways of broadening one's approach and appreciation of art.

Why Choose this Book?

The Aesthetic Brain takes the reader on a wide-ranging journey addressing fundamental questions about aesthetics and art. Using neuroscience and evolutionary psychology, Chatterjee shows how beauty, pleasure, and art are grounded biologically, and offers explanations for why beauty, pleasure, and art exist at all.

Neurobiology of Sensation and Reward

Vision and Art (Updated and Expanded Edition)

In this volume, a team of internationally respected contributors theorize the concept of aesthetic experience and its value. Exposing and expanding our restricted cultural and intellectual presuppositions of what constitutes aesthetic experience, the book aims to re-explore and affirm the place of aesthetic experience--in its evaluative, phenomenological and transformational sense--not only in relation to art and artists but to our inner and spiritual lives.

The Aesthetic Brain

The 13th International Conference on Human-Computer Interaction, HCI International 2009, was held in San Diego, California, USA, July 19-24, 2009, jointly with the Symposium on Human Interface (Japan) 2009, the 8th International Conference on Engineering Psychology and Cognitive Ergonomics, the 5th International Conference on Universal Access in Human-Computer Interaction, the Third International Conference on Virtual and Mixed Reality, the Third International Conference on Internationalization, Design and Global Development, the Third International Conference on Online Communities and Social Computing, the 5th International Conference on Augmented Cognition, the Second International Conference on Digital Human Modeling, and the First International Conference on Human Centered Design. A total of 4,348 individuals from academia, research institutes, industry and governmental agencies from 73 countries submitted contributions, and 1,397 papers that were judged to be of high scientific quality were included in the program. These papers address the latest research and development efforts and highlight the human aspects of the design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas.

The Cambridge Handbook of the Psychology of Aesthetics and the Arts

ABOUT THE BOOK The contributing authors to this book, all preeminent scholars in

their fields, present their current thinking about the processes that underlie creativity and aesthetic experience. They discuss established theory and research, and provide creative speculation on future problems for inquiry and new approaches to conceptualizing and investigating these phenomena. The book contains many new findings and ideas, never before published or new by virtue of the novel context in which they are incorporated. Thus, the chapters present both new approaches to old problems and new ideas and approaches not yet explored by leading scholars in these fields. The first part of the book is devoted to understanding the nature of the perceptual/cognitive and aesthetic processes that occur during encounters with visual art stimuli in everyday settings, in museums, and while watching films. Also discussed in Part I is how cultural and anthropological approaches to the study of aesthetic responses to art contribute to our understanding about the development of a culture's artistic canon and to crosscultural aesthetic universals. Part II presents new dimensions in the study of creativity. Two approaches to the development of a comprehensive theory of creativity are presented: Sternberg's Investment Theory of Creativity and a systems perspective of creativity based on a meta-individual world model. Also covered are the factors that contribute to cinematic creativity and a film's cinematic success, and the complex nature of the creative processes and research approaches involved in the innovative product design necessitated by the introduction of electronics in consumer products. Part III deals with the application of concepts and models from cognitive psychology to the study of music, literary meaning, and the visual arts. The contributors outline a model of the cognitive processes involved in real-time listening to music, investigate what readers are doing when they read a literary text, describe what research shows about the transfer of learning from the arts to non-arts cognition, and discuss the kinds of thinking skills that emerge from the study of the visual arts by high school students. In Part IV, the authors focus on the interactive contribution of observers' personalities and affect states to the creation and perception of art. The chapters include a discussion of the internal mechanisms by which personality expresses itself during the making of and the response to art; the relationship between emotion and cognition in aesthetics, in terms of the interaction of top-down and bottom-up processes across the time course of an aesthetic episode; the affective processes that take place during pretend play and their impact on the development of creativity in children; and the causes and consequences of listeners' intense experiences while listening to music. INTENDED AUDIENCE: Researchers and scholars in the fields of creativity, aesthetics, and psychology of the arts (visual arts, literature, music).

The Aesthetic Mind

Synthesizing coverage of sensation and reward into a comprehensive systems overview, *Neurobiology of Sensation and Reward* presents a cutting-edge and multidisciplinary approach to the interplay of sensory and reward processing in the brain. While over the past 70 years these areas have drifted apart, this book makes a case for reuniting sensation and reward by highlighting the important links and interface between the two. Emphasizing the role of reward in reinforcing behaviors, the book begins with an exploration of the history, ecology, and evolution of sensation and reward. Progressing through the five senses, contributors explore how the brain extracts information from sensory cues. The

chapter authors examine how different animal species predict rewards, thereby integrating sensation and reward in learning, focusing on effects in anatomy, physiology, and behavior. Drawing on empirical research, contributors build on the themes of the book to present insights into the human sensory rewards of perfume, art, and music, setting the scene for further cross-disciplinary collaborations that bridge the neurobiological interface between sensation and reward.

New Directions in Aesthetics, Creativity, and the Arts

More on the relationship between brain disease and creativity Neurological Disorders in Famous Artists - Part 2' presents more writers, philosophers, musicians, painters and film directors who developed some form of neurological dysfunction and whose style and output changed following a stroke or other cerebral disorder. Mozart, Baudelaire, de Kooning, Proust, F ssli, Heine, Fellini, Visconti and others are all striking examples of how extraordinary creativity can be challenged and modified or destroyed and restored, all within the drama of a disease. When brain disease challenges the capabilities of artists, the changes that subsequently occur in their work provide a unique opportunity to explore the mysteries of creativity. This may also lead to a better understanding on how certain artists developed, particularly when the course of a disease corresponds with what is generally recognized as a new chapter in their work. This book offers a fascinating read for neurologists, psychiatrists, general physicians and anybody interested in art, literature, music and film.

Art, Aesthetics, and the Brain

An overview of the techniques used in modern neuroscience research with the emphasis on showing how different techniques can optimally be combined in the study of problems that arise at some levels of nervous system organization. This is essentially a working tool for the scientist in the laboratory and clinic, providing detailed step-by-step protocols with tips and recommendations. Most chapters and protocols are organized such that they can be used independently, while cross-references between the chapters, a glossary, a list of suppliers and appendices provide further help.

Aesthetic Science

A presentation of music and language within an integrative, embodied perspective of brain mechanisms for action, emotion, and social coordination. This book explores the relationships between language, music, and the brain by pursuing four key themes and the crosstalk among them: song and dance as a bridge between music and language; multiple levels of structure from brain to behavior to culture; the semantics of internal and external worlds and the role of emotion; and the evolution and development of language. The book offers specially commissioned expositions of current research accessible both to experts across disciplines and to non-experts. These chapters provide the background for reports by groups of specialists that chart current controversies and future directions of research on each theme. The book looks beyond mere auditory experience,

probing the embodiment that links speech to gesture and music to dance. The study of the brains of monkeys and songbirds illuminates hypotheses on the evolution of brain mechanisms that support music and language, while the study of infants calibrates the developmental timetable of their capacities. The result is a unique book that will interest any reader seeking to learn more about language or music and will appeal especially to readers intrigued by the relationships of language and music with each other and with the brain. Contributors Francisco Aboitiz, Michael A. Arbib, Annabel J. Cohen, Ian Cross, Peter Ford Dominey, W. Tecumseh Fitch, Leonardo Fogassi, Jonathan Fritz, Thomas Fritz, Peter Hagoort, John Halle, Henkjan Honing, Atsushi Iriki, Petr Janata, Erich Jarvis, Stefan Koelsch, Gina Kuperberg, D. Robert Ladd, Fred Lerdahl, Stephen C. Levinson, Jerome Lewis, Katja Liebal, Jônatas Manzolli, Bjorn Merker, Lawrence M. Parsons, Aniruddh D. Patel, Isabelle Peretz, David Poeppel, Josef P. Rauschecker, Nikki Rickard, Klaus Scherer, Gottfried Schlaug, Uwe Seifert, Mark Steedman, Dietrich Stout, Francesca Stregapede, Sharon Thompson-Schill, Laurel Trainor, Sandra E. Trehub, Paul Verschure

Aesthetic Experience

This volume presents the results of the 1st International Conference on Aesthetics and the Embodied Mind. It discusses from different points of view the role of embodiment in the reevaluation of aesthetics as a process of bodily mediated meaning-making.

Embodied Aesthetics

This book presents the proceedings of the NeuroIS Retreat 2019, held on June 4-6 in Vienna, Austria, reporting on topics at the intersection of information systems (IS) research, neurophysiology and the brain sciences. Featuring the latest findings from top scholars in the field, it offers detailed insights into the neurobiology underlying IS behavior, essential methods and tools and their applications for IS, as well as applying neuroscience and neurophysiological to advance IS theory.

Modern Techniques in Neuroscience Research

The nature of well-being is one of the most enduring and elusive subjects of human inquiry. Well-Being draws upon the latest scientific research to transform our understanding of this ancient question. With contributions from leading authorities in psychology, social psychology, and neuroscience, this volume presents the definitive account of current scientific efforts to understand human pleasure and pain, contentment and despair. The distinguished contributors to this volume combine a rigorous analysis of human sensations, emotions, and moods with a broad assessment of the many factors, from heredity to nationality, that bear on our well-being. Using the tools of experimental science, the contributors confront the puzzles of human likes and dislikes. Why do we grow accustomed and desensitized to changes in our lives, both good and bad? Does our happiness reflect the circumstances of our lives or is it determined by our temperament and personality? Why do humans acquire tastes for sensations that are initially painful or unpleasant? By examining the roots of our everyday likes and dislikes, the book

also sheds light on some of the more extreme examples of attraction and aversion, such as addiction and depression. Among its wide ranging inquiries, Well-Being examines systematic differences in moods and behaviors between genders, explaining why women suffer higher rates of depression and anxiety than men, but are also more inclined to express positive emotions. The book also makes international comparisons, finding that some countries' populations report higher levels of happiness than others. The contributors deploy an array of methods, from the surveys and questionnaires of social science to psychological and physiological experiments, to develop a comprehensive new approach to the study of well-being. They show how the sensory pleasures of the body can tell us something about the higher pleasures of the mind and even how the effectiveness of our immune system can depend upon the health of our social relationships.

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Every once in a while, we have to reconsider the perennial questions concerning human nature: What are the special human behaviours, social practices, and psychological structures that makes us particularly human? The field of evolution, psychology and cognitive science is the most expanding, inter-disciplinary area for the time being, uniting different sciences under the same evolutionary paradigm and keeping them occupied by the same eternal questions stated above. Relevant data and theoretical considerations are piling up, but an overview is needed. To facilitate this a large inter-disciplinary conference entitled Human Mind - Human Kind was held at University of Aarhus, Denmark. More than 100 experts presented their latest research, and after careful selection, 20 of these contributions have found their way to this volume. The studies fall into three well defined sections: Evolution and Cognition - Comparative and Developmental Perspectives, Human Sociality, Morality & Religiosity, Human Sexuality and Mating Strategies. Specifying the differences between our own species and the rest of the animal world always provokes debate. But these demarcations simply have to be drawn once and again. They focus attention and stimulate research, exactly because they provoke and challenge other researchers to take up the glove and prove us wrong.

Human Evolution

This eye-opening text brings together research from behavioral science, neuroscience, and other fields to make a cogent case for emotions acting as a practical framework for living our lives. A dozen basic emotions are analyzed in terms of what causes them, how they change thoughts and behaviors, and the functional value of these responses. Contrary to the common idea of emotions as fleeting occurrences, they are shown as having the potential for lasting impact on moods, thoughts, and behaviors. Intriguing findings assert that even negative emotions such as jealousy and anger can have positive results such as promoting positive goals, and can lead to successful outcomes in overarching domains such as cognition and well-being. Among the topics covered: · How fear and anxiety promote attention and protective behavior. · How sadness and depression promote analysis of complex problems in goal-pursuits. · How happiness promotes processing and attention. · How love promotes relationship development and goal attainment. · How pride promotes sense of self and identity. The Function of Emotions is a valuable resource for students, researchers, and clinicians interested

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in the psychology and neuroscience of emotions and their function in everyday life. It will attract an interested readership among professionals working in such fields as education, management and leadership, social work, and psychotherapy.

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