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# Metaphorical Brain

**Michael A. Arbib**



## **Metaphorical Brain :**

**The Metaphorical Brain** Seana Coulson, Vicky T. Lai, 2016-03-09 Metaphor has been an issue of intense research and debate for decades see for example 1 Researchers in various disciplines including linguistics psychology computer science education and philosophy have developed a variety of theories and much progress has been made 2 For one metaphor is no longer considered a rhetorical flourish that is found mainly in literary texts Rather linguists have shown that metaphor is a pervasive phenomenon in everyday language a major force in the development of new word meanings and the source of at least some grammatical function words 3 Indeed one of the most influential theories of metaphor involves the suggestion that the commonality of metaphoric language results because cross domain mappings are a major determinant in the organization of semantic memory as cognitive and neural resources for dealing with concrete domains are recruited for the conceptualization of more abstract ones 4 Researchers in cognitive neuroscience have explored whether particular kinds of brain damage are associated with metaphor production and comprehension deficits and whether similar brain regions are recruited when healthy adults understand the literal and metaphorical meanings of the same words see 5 for a review Whereas early research on this topic focused on the issue of the role of hemispheric asymmetry in the comprehension and production of metaphors 6 in recent years cognitive neuroscientists have argued that metaphor is not a monolithic category and that metaphor processing varies as a function of numerous factors including the novelty or conventionality of a particular metaphoric expression its part of speech and the extent of contextual support for the metaphoric meaning see e g 7 8 9 Moreover recent developments in cognitive neuroscience point to a sensorimotor basis for many concrete concepts and raise the issue of whether these mechanisms are ever recruited to process more abstract domains 10 This Frontiers Research Topic brings together contributions from researchers in cognitive neuroscience whose work involves the study of metaphor in language and thought in order to promote the development of the neuroscientific investigation of metaphor Adopting an interdisciplinary perspective it synthesizes current findings on the cognitive neuroscience of metaphor provides a forum for voicing novel perspectives and promotes avenues for new research on the metaphorical brain 1 Arbib M A 1989 The metaphorical brain 2 Neural networks and beyond John Wiley Sons Inc 2 Gibbs Jr R W Ed 2008 The Cambridge handbook of metaphor and thought Cambridge University Press 3 Sweetser Eve E Grammaticalization and semantic bleaching Annual Meeting of the Berkeley Linguistics Society Vol 14 2011 4 Lakoff G Johnson M 1999 Philosophy in the flesh The embodied mind and its challenge to western thought Basic books 5 Coulson S 2008 Metaphor comprehension and the brain The Cambridge handbook of metaphor and thought 177 194 6 Winner E Gardner H 1977 The comprehension of metaphor in brain damaged patients Brain 100 4 717 729 7 Coulson S Van Petten C 2007 A special role for the right hemisphere in metaphor comprehension ERP evidence from hemifield presentation Brain Research 1146 128 145 8 Lai V T Curran T Menn L 2009 Comprehending conventional and novel metaphors An ERP study Brain Research 1284 145 155 9 Schmidt G L Kranjec A

Cardillo E R Chatterjee A 2010 Beyond laterality a critical assessment of research on the neural basis of metaphor Journal of the International Neuropsychological Society 16 01 1 5 10 Desai R H Binder J R Conant L L Mano Q R Seidenberg M S 2011 The neural career of sensory motor metaphors Journal of Cognitive Neuroscience 23 9 2376 2386

**The Metaphorical Brain** Michael A. Arbib, 1972 [The Metaphorical Brain](#) Michael A. Arbib, 1972 **Current Thoughts on the Brain-Computer Analogy - All Metaphors Are Wrong, But Some Are Useful** Giorgio Matassi, Pedro Martinez, Bud (Bhubaneswar) Mishra, 2023-03-22 *The Metaphorical Brain 2* Michael A. Arbib, 1989-08-14 This was begun as a revision of the 1972 classic *The Metaphorical Brain* but quickly grew into an independent work This new volume offers readers a timely in depth exploration of exciting research into the interplay between brain modeling computer design and artificial intelligence

*Biological Neural Networks: Hierarchical Concept of Brain Function* Konstantin V. Baev, 2012-12-06 This book is devoted to a novel conceptual theoretical framework of neuro science and is an attempt to show that we can postulate a very small number of assumptions and utilize their heuristics to explain a very large spectrum of brain phenomena The major assumption made in this book is that inborn and acquired neural automatisms are generated according to the same functional principles Accordingly the principles that have been revealed experimentally to govern inborn motor automatisms such as locomotion and scratching are used to elucidate the nature of acquired or learned automatisms This approach allowed me to apply the language of control theory to describe functions of biological neural networks You the reader can judge the logic of the conclusions regarding brain phenomena that the book derives from these assumptions If you find the argument flawless one can call it common sense and consider that to be the best praise for a chain of logical conclusions For the sake of clarity I have attempted to make this monograph as readable as possible Special attention has been given to describing some of the concepts of optimal control theory in such a way that it will be understandable to a biologist or physician I have also included plenty of illustrative examples and references designed to demonstrate the appropriateness and applicability of these conceptual theoretical notions for the neurosciences

**How the Brain Got Language** Michael A. Arbib, 2012-04-11 Unlike any other species humans can learn and use language This book explains how the brain evolved to make language possible through what Michael Arbib calls the Mirror System Hypothesis Because of mirror neurons monkeys chimps and humans can learn by imitation but only complex imitation which humans exhibit is powerful enough to support the breakthrough to language This theory provides a path from the openness of manual gesture which we share with nonhuman primates through the complex imitation of manual skills pantomime protosign communication based on conventionalized manual gestures and finally to protospeech The theory explains why we humans are as capable of learning sign languages as we are of learning to speak This fascinating book shows how cultural evolution took over from biological evolution for the transition from protolanguage to fully fledged languages The author explains how the brain mechanisms that made the original emergence of languages possible perhaps 100 000 years ago are still operative

today in the way children acquire language in the way that new sign languages have emerged in recent decades and in the historical processes of language change on a time scale from decades to centuries Though the subject is complex this book is highly readable providing all the necessary background in primatology neuroscience and linguistics to make the book accessible to a general audience **The Computational Brain, 25th Anniversary Edition** Patricia S.

Churchland, Terrence J. Sejnowski, 2016-10-28 An anniversary edition of the classic work that influenced a generation of neuroscientists and cognitive neuroscientists Before *The Computational Brain* was published in 1992 conceptual frameworks for brain function were based on the behavior of single neurons applied globally In *The Computational Brain* Patricia Churchland and Terrence Sejnowski developed a different conceptual framework based on large populations of neurons They did this by showing that patterns of activities among the units in trained artificial neural network models had properties that resembled those recorded from populations of neurons recorded one at a time It is one of the first books to bring together computational concepts and behavioral data within a neurobiological framework Aimed at a broad audience of neuroscientists computer scientists cognitive scientists and philosophers *The Computational Brain* is written for both expert and novice This anniversary edition offers a new preface by the authors that puts the book in the context of current research This approach influenced a generation of researchers Even today when neuroscientists can routinely record from hundreds of neurons using optics rather than electricity and the 2013 White House BRAIN initiative heralded a new era in innovative neurotechnologies the main message of *The Computational Brain* is still relevant *Drug Dealer, MD* Anna

Lembke, 2016-11-15 The disturbing connection between well meaning physicians and the prescription drug epidemic Three out of four people addicted to heroin probably started on a prescription opioid according to the director of the Centers for Disease Control and Prevention In the United States alone 16 000 people die each year as a result of prescription opioid overdose But perhaps the most frightening aspect of the prescription drug epidemic is that it s built on well meaning doctors treating patients with real problems In *Drug Dealer MD* Dr Anna Lembke uncovers the unseen forces driving opioid addiction nationwide Combining case studies from her own practice with vital statistics drawn from public policy cultural anthropology and neuroscience she explores the complex relationship between doctors and patients the science of addiction and the barriers to successfully addressing drug dependence and addiction Even when addiction is recognized by doctors and their patients she argues many doctors don t know how to treat it connections to treatment are lacking and insurance companies won t pay for rehab Full of extensive interviews with health care providers pharmacists social workers hospital administrators insurance company executives journalists economists advocates and patients and their families *Drug Dealer MD* is for anyone whose life has been touched in some way by addiction to prescription drugs Dr Lembke gives voice to the millions of Americans struggling with prescription drugs while singling out the real culprits behind the rise in opioid addiction cultural narratives that promote pills as quick fixes pharmaceutical corporations in cahoots with organized

medicine and a new medical bureaucracy focused on the bottom line that favors pills procedures and patient satisfaction over wellness Dr Lembke concludes that the prescription drug epidemic is a symptom of a faltering health care system the solution for which lies in rethinking how health care is delivered      **When Brains Meet Buildings** Michael A. Arbib,2021 Michael Arbib presents When Brains Meet Buildings as an invitation to the science behind architecture richly illustrated with buildings both famous and domestic As he converses with the reader he presents action oriented perception memory and imagination as well as atmosphere aesthetics and emotion as keys to analyzing the experience and design of architecture

**Brains, Machines, and Mathematics** Michael A. Arbib,2012-12-06 This is a book whose time has come again The first edition published by McGraw Hill in 1964 was written in 1962 and it celebrated a number of approaches to developing an automata theory that could provide insights into the processing of information in brainlike machines making it accessible to readers with no more than a college freshman s knowledge of mathematics The book introduced many readers to aspects of cybernetics the study of computation and control in animal and machine But by the mid 1960s many workers abandoned the integrated study of brains and machines to pursue artificial intelligence AI as an end in itself the programming of computers to exhibit some aspects of human intelligence but with the emphasis on achieving some benchmark of performance rather than on capturing the mechanisms by which humans were themselves intelligent Some workers tried to use concepts from AI to model human cognition using computer programs but were so dominated by the metaphor the mind is a computer that many argued that the mind must share with the computers of the 1960s the property of being serial of executing a series of operations one at a time As the 1960s became the 1970s this trend continued Meanwhile experi mental neuroscience saw an exploration of new data on the anatomy and physiology of neural circuitry but little of this research placed these circuits in the context of overall behavior and little was informed by theoretical con cepts beyond feedback mechanisms and feature detectors

**Computers, Brains and Minds** P. Slezak,W.R. Albury,2012-12-06 The institutionalization of History and Philosophy of Science as a distinct field of scholarly endeavour began comparatively early though not always under that name in the Australasian region An initial lecturing appointment was made at the University of Melbourne imme diately after the Second World War in 1946 and other appointments followed as the subject underwent an expansion during the 1950s and 1960s similar to that which took place in other parts of the world Today there are major Departments at the University of Melbourne the University of New South Wales and the University of Wollongong and smaller groups active in many other parts of Australia and in New Zealand Australasian Studies in History and Philosophy of Science aims to provide a distinctive publication outlet for Australian and New Zealand scholars working in the general area of history philosophy and social studies of science Each volume comprises a group of essays on a connected theme edited by an Australian or a New Zealander with special expertise in that particular area Papers address general issues however rather than local ones parochial topics are avoided Further more though in each volume a majority of the contributors is from Australia or New

Zealand contributions from elsewhere are by no means ruled out Quite the reverse in fact they are actively encouraged wherever appropriate to the balance of the volume in question

**The Handbook of Brain Theory and Neural Networks** Michael A. Arbib, 2003 This second edition presents the enormous progress made in recent years in the many subfields related to the two great questions how does the brain work and How can we build intelligent machines This second edition greatly increases the coverage of models of fundamental neurobiology cognitive neuroscience and neural network approaches to language Midwest

**Progress in Sensory Physiology**, 2012-12-06 The objective of this series is to provide concise and critical information on current advances in the different domains of sensory physiology It will be of interest to all who want to keep abreast of the latest developments in the field from the level of the receptor to that of the cortex including neuropsychological and psychophysical aspects

Brains Top Down Gennaro Auletta, Ivan Colage, Marc Jeannerod, 2013 This book presents an overview of some of the main schools of thought as well as current research trends in neuroscience It focuses on neural top down causation applied to hot topics like consciousness emotions the self and the will action and behavior neural networks brains and society

Our Senses Rob DeSalle, 2018-01-09 An animated introduction to the neuroscience of sensory perception informed by the latest research on topics from music to brain injuries to synesthesia Kirkus Reviews In recent years neuroscience has uncovered a wealth of new information about our senses and how they serve as our gateway to the world This splendidly accessible book explores the most intriguing findings of this research With infectious enthusiasm Rob DeSalle illuminates not only how we see hear smell touch taste maintain balance feel pain and rely on other less familiar senses but also how these senses shape our perception of the world aesthetically artistically and musically DeSalle first examines the question of how perception and consciousness are formed in the brain setting human senses in an evolutionary context He then investigates such varied themes as supersenses and diminished senses synesthesia and other cross sensory phenomena hemispheric specialization diseases anomalies induced by brain injuries and hallucinations Focusing on what is revealed about our senses through the extraordinary he provides unparalleled insights into the unique wonders of the human brain In the laboratory sensory science is serious business But in the capable hands of Rob DeSalle it becomes fun and compelling for the general reader and is made all the more accessible by Patricia Wynne's delightful illustrations Ian Tattersall author of *The Strange Case of the Rickety Cossack and Other Cautionary Tales from Human Evolution*

*Sociological Reflections on the Neurosciences* Martyn Pickersgill, Ira Van Keulen, 2012-07-30 The neurosciences are more than a collection of scientific practices they offer up various ways of thinking about mind body and society This title casts light on the place role and impact of neuroscience It reflects on the insights the neurosciences have to offer sociology

Metaphors in the History of Psychology David E. Leary, 1994-07-29 Arguing that psychologists and their predecessors have invariably relied on metaphors in articulation the contributors to this volume offer a new key to understanding a critically important area of human knowledge by specifying the major metaphors

**The History of**

**Emotions** Jan Plamper, 2015 The history of emotions is one of the fastest growing fields in current historical debate and this is the first book length introduction to the field synthesizing the current research and offering direction for future study The History of Emotions is organized around the debate between social constructivist and universalist theories of emotion that has shaped most emotions research in a variety of disciplines for more than a hundred years social constructivists believe that emotions are largely learned and subject to historical change while universalists insist on the timelessness and pan culturalism of emotions In historicizing and problematizing this binary Jan Plamper opens emotions research beyond constructivism and universalism he also maps a vast terrain of thought about feelings in anthropology philosophy sociology linguistics art history political science the life sciences from nineteenth century experimental psychology to the latest affective neuroscience and history from ancient times to the present day

**General Systems Theory: Problems, Perspectives, Practice (2nd Edition)** Lars Skyttner, 2006-01-04 Systems theorists see common principles in the structure and operation of systems of all kinds and sizes They promote an interdisciplinary science adapted for a universal application with a common language and area of concepts In order to solve problems make recommendations and predict the future they use theories models and concepts from the vast area of general systems theory This approach is chosen as a means to overcome the fragmentation of knowledge and the isolation of the specialist but also to find new approaches to problems created by earlier solution of problems This revised and updated second edition of General Systems Theory Ideas and Applications includes new systems theories and a new chapter on self organization and evolution The book summarizes most of the fields of systems theory and its application systems science in one volume It provides a quick and readable reference guide for future learning containing both general theories and practical applications without the use of complicated mathematics



## Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Metaphorical Brain**

In some sort of inundated with monitors and the cacophony of quick transmission, the profound power and psychological resonance of verbal artistry usually diminish in to obscurity, eclipsed by the regular assault of sound and distractions. However, situated within the musical pages of **Metaphorical Brain** , a interesting function of fictional elegance that impulses with natural feelings, lies an wonderful journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, that interesting opus courses readers on a psychological odyssey, softly revealing the latent potential and profound impact stuck within the complex web of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is main subjects, dissect their charming writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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