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# Metaphorical Brain

**Carl Mitcham, Alois Huning**



## **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     **The Metaphorical Brain** Michael A. Arbib, 1972     **Washing the Brain** □ **Metaphor and Hidden Ideology** Andrew Goatly, 2007-01-17 Contemporary metaphor theory has recently begun to address the relation between metaphor culture and ideology In this wide ranging book Andrew Goatly using lexical data from his database Metalude investigates how conceptual metaphor themes construct our thinking and social behaviour in fields as diverse as architecture engineering education genetics ecology economics politics industrial time management medicine immigration race and sex He argues that metaphor themes are created not only through the universal body but also through cultural experience so that an apparently universal metaphor such as event structure as realized in English grammar is in fact culturally relative compared with e g the construal of cause and effect in the Algonquin language Blackfoot Moreover event structure as a model is both scientifically reactionary and as the basis for technological mega projects has proved environmentally harmful Furthermore the ideologies of early capitalism created or exploited a selection of metaphor themes historically traceable through Hobbes Hume Smith Malthus and Darwin These metaphorical concepts support neo Darwinian and neo conservative ideologies apparent at the beginning of the 21st century ideologies underpinning our social and environmental crises The conclusion therefore recommends skepticism of metaphor's reductionist tendencies

**Philosophy and Technology II** Carl Mitcham, Alois Huning, 2012-12-06 Until recently the philosophy and history of science proceeded in a separate way from the philosophy and history of technology and indeed with respect to both science and technology philosophical and historical inquiries were also following their separate ways Now we see in the past quarter century how the philosophy of science has been profoundly influenced by historical studies of the sciences and no longer concerned so single mindedly with the analysis of theory and explanation with the relation between hypotheses and experimental observation Now also we see the traditional historical studies of technology supplemented by philosophical questions and no longer so plainly focussed upon contexts of application on invention and practical engineering and on the mutually stimulating relations between technology and society Further alas the neat division of intellectual labor those clearly drawn distinctions between science and technology between the theoretical and the applied between discovery and

justification between internalist and externalist approaches all have become muddled. Partly this is due to internal revolutions within the philosophy and history of science, the first result being recognition of their mutual relevance. Partly, however, this state of muddle is due to external factors: science at the least in the last half century has become so intimately connected with technology and technological developments that it has created so many new fields of scientific and philosophical inquiry that any critical reflection on scientific and technological endeavors must henceforth take their interaction into account.

**Networking of Psychophysics, Psychology and Neurophysiology** Bruce J. West, Paolo Grigolini, To many scientists the gap between the nineteenth century views of consciousness proposed by the psychologist William James and that developed by the inventor of psychophysics Gustav Fechner has never seemed wider. However, the twentieth century concept of collective cooperative behavior within the brain has partially reconciled these diverging perspectives, suggesting the notion of consciousness as a physical phenomenon. A kernel of twenty-first century investigators bases their investigations on physiological fluctuations experiments. These fluctuations, although apparently erratic when analyzed with advanced methods of fractal statistical analysis, reveal the emergence of complex behavior intermediate between complete order and total randomness, a property usually referred to as temporal complexity. Others, with the help of modern technologies such as MRI, establish a more direct analysis of brain dynamics and focus on the brain's topological complexity. Consequently, the two groups adopt different approaches: the former being based on phenomenological and macroscopic considerations and the latter resting on the crucial role of neuron interactions. The neurophysiology research work has an increasing overlap with the emerging field of complex networks, whereas the behavior psychology experiments have until recently ignored the complex cooperative dynamics that are proved by increasing experimental evidence to characterize the brain function. It is crucial to examine both the experimental and theoretical studies that support and those that challenge the view that it is an emergent collective property that allows the healthy brain to function. What needs to be discussed are new ways to understand the transport of information through complex networks sharing the same dynamical properties as the brain. In addition, we need to understand information transfer between complex networks, say between the brain and a controlled experimental stimulus. Experiments suggest that brain excitation is described by inverse power law distributions, and recent studies in network dynamics indicate that this distribution is the result of phase transitions due to neuron network dynamics. It is important to stress that the development of dynamic networking establishes a connection between topological and temporal complexity, establishing that a scale-free distribution of links is generated by the dynamic correlation between dynamic elements located at very large Euclidean distances from one another. Dynamic networking and dynamics networks suggest a new way to transfer information: the long distance communication through local cooperative interaction. It is anticipated that the contributed discussions will clarify how the global intelligence of a complex network emerges from the local cooperation of units and the role played by critical phase transitions in the observed persistence of this cooperation.

**Speaking about the Brain. Metaphors in popular scientific texts** Mihail Sotkov, 2015-08-25 Master's Thesis from the year 2014 in the subject English Language and Literature Studies Linguistics grade 1-3 TU Dortmund Institut für Anglistik und Amerikanistik language English abstract This paper deals with metaphorical representations of the human brain in the brain metaphors in popular scientific texts A corpus consisting of forty newspaper articles is analysed by applying Fauconnier and Turner's Conceptual Integration Networks 1998/2002 The work is embedded in the field of Cognitive Linguistics and tries to offer some insights in how we conceptualise the human brain in popular science revealing the nature of meaning creation as well as sketching the reciprocal interdependence of the human brain and machines as the predominant popular scientific paradigm of conceptualising human nature

**A Cognitive Theory of Metaphor** Earl R. Mac Cormac, 1985 In this book Earl Mac Cormac presents an original and unified cognitive theory of metaphor using philosophical arguments which draw upon evidence from psychological experiments and theories He notes that implications of this theory for meaning and truth with specific attention to metaphor as a speech act the iconic meaning of metaphor and the development of a four-valued system of truth Numerous examples of metaphor from poetry and science are presented and analyzed to support Mac Cormac's theory A Cognitive Theory of Metaphor takes up three levels of explanation metaphor as expressed in surface language the semantics of metaphor and metaphor as a cognitive process and unifies these by interpreting metaphor as an evolutionary knowledge process in which metaphors mediate between minds and culture Mac Cormac considers and rejects the radical theory that all use of language is metaphorical however this argument also recognizes that the theory of metaphor may itself be metaphorical The book first considers the computational metaphor often adopted by cognitive psychology as an example of metaphor requiring analysis In contrast to three well-known philosophical theories of metaphor the tension theory the controversion theory and the grammatical deviance theory it develops a semantical anomaly theory of metaphor based on a quasi-mathematical hierarchy of words In developing the theory Mac Cormac makes much-needed connections between theories of metaphor and more orthodox analytic philosophy of meaning including discussions of speech acts and the logic of fuzzy sets This semantical theory of explanation is then shown to be compatible with contemporary psychological theories of memory Earl R. MacCormac is Charles A. Dana Professor of Philosophy and Chairman of the Department of Philosophy Davidson College A Bradford Book

*Essays by George Barker, B.A.* George Barker (B.A.), 1905

From Molecule to Metaphor Jerome Feldman, 2008-01-25 In *From Molecule to Metaphor* Jerome Feldman proposes a theory of language and thought that treats language not as an abstract symbol system but as a human biological ability that can be studied as a function of the brain as vision and motor control are studied This theory he writes is a bridging theory that works from extensive knowledge at two ends of a causal chain to explicate the links between Although the cognitive sciences are revealing much about how our brains produce language and thought we do not yet know exactly how words are understood or have any methodology for finding out Feldman develops his theory in computer

simulations formal models that suggest ways that language and thought may be realized in the brain Combining key findings and theories from biology computer science linguistics and psychology Feldman synthesizes a theory by exhibiting programs that demonstrate the required behavior while remaining consistent with the findings from all disciplines After presenting the essential results on language learning neural computation the biology of neurons and neural circuits and the mind brain Feldman introduces specific demonstrations and formal models of such topics as how children learn their first words words for abstract and metaphorical concepts understanding stories and grammar including hot button issues surrounding the innateness of human grammar With this accessible comprehensive book Feldman offers readers who want to understand how our brains create thought and language a theory of language that is intuitively plausible and also consistent with existing scientific data at all levels     The Representation of Language in the Brain Christopher Code,2006 This Special Issue combines contributions from John C Marshall s colleagues and friends presenting issues concerned with The Representation of Language in the Brain Contributions include reading naming syntax comprehension progressive aphasia history of aphasia treatment language evolution and embodied cognition     **Criticism of the Philosophy of Bergson** John MacWilliam,1928

**Neural and Brain Modeling** Ronald J. MacGregor,1987     **A Manual of Chinese Metaphor** Charles Alfred Speed Williams,1920     **A New Logic** Charles Arthur Mercier,1912     **The Glands regulating personality** Louis Berman,1921

*Logic of the Living Brain* Gerd Sommerhoff,1974

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## **Table of Contents Metaphorical Brain**

1. Understanding the eBook Metaphorical Brain
  - The Rise of Digital Reading Metaphorical Brain
  - Advantages of eBooks Over Traditional Books
2. Identifying Metaphorical Brain
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Metaphorical Brain
  - User-Friendly Interface
4. Exploring eBook Recommendations from Metaphorical Brain
  - Personalized Recommendations
  - Metaphorical Brain User Reviews and Ratings
  - Metaphorical Brain and Bestseller Lists
5. Accessing Metaphorical Brain Free and Paid eBooks
  - Metaphorical Brain Public Domain eBooks
  - Metaphorical Brain eBook Subscription Services
  - Metaphorical Brain Budget-Friendly Options



6. Navigating Metaphorical Brain eBook Formats
  - ePub, PDF, MOBI, and More
  - Metaphorical Brain Compatibility with Devices
  - Metaphorical Brain Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Metaphorical Brain
  - Highlighting and Note-Taking Metaphorical Brain
  - Interactive Elements Metaphorical Brain
8. Staying Engaged with Metaphorical Brain
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Metaphorical Brain
9. Balancing eBooks and Physical Books Metaphorical Brain
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Metaphorical Brain
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Metaphorical Brain
  - Setting Reading Goals Metaphorical Brain
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Metaphorical Brain
  - Fact-Checking eBook Content of Metaphorical Brain
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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