

# The Human Semantic Potential

Spatial Language  
and Constrained  
Connectionism



Terry Regier

# The Human Semantic Potential Spatial Language And Constrained Connectionism

**Ewa Dabrowska, Dagmar Divjak**



## **The Human Semantic Potential Spatial Language And Constrained Connectionism:**

The Human Semantic Potential Terry Regier, 1996-08 Regier's work makes a distinct and tangible contribution to the study of cognition and should be read by anyone interested in language acquisition in particular and learning in general. This work brings about an impressive integration of ideas from cognitive linguistics, connectionism, and computer science in order to attack the problem of learning perceptually grounded semantics of spatial terms. The research reported in this book is an excellent example of interdisciplinary work. Lokendra Shastri, Member AI Group, International Computer Science Institute, Berkeley. Regier develops a structured connectionist model for acquiring spatial concepts that represents the epitome of cognitive science, integrating perspectives from linguistics, artificial intelligence, and psychology. This work further represents an excellent example of how a complex model should be analyzed to establish its core properties, implications, and limitations. Besides having considerable scientific merit, the book is highly engaging, frequently provocative, and beautifully written. Lawrence W. Barsalou, Professor of Psychology, University of Chicago. Drawing on ideas from cognitive linguistics, connectionism, and perception, *The Human Semantic Potential* describes a connectionist model that learns perceptually grounded semantics for natural language in spatial terms. Languages differ in the ways in which they structure space, and Regier's aim is to have the model perform its learning task for terms from any natural language. The system has so far succeeded in learning spatial terms from English, German, Russian, Japanese, and Mixtec. The model views simple movies of two-dimensional objects moving relative to one another and learns to classify them linguistically in accordance with the spatial system of some natural language. The overall goal is to determine which sorts of spatial configurations and events are learnable as the semantics for spatial terms and which are not. Ultimately, the model and its theoretical underpinnings are a step in the direction of articulating biologically based constraints on the nature of human semantic systems. Along the way, Regier takes up such substantial issues as the attraction and the liabilities of PDP and structured connectionist modeling, the problem of learning without direct negative evidence, and the area of linguistic universals, which is addressed in the model itself. Trained on spatial terms from different languages, the model permits observations about the possible bases of linguistic universals and interlanguage variation. **Neural Network Modeling and Connectionism series**

**The Human Semantic Potential** Terry Regier, 1996. Drawing on ideas from cognitive linguistics, connectionism, and perception, *The Human Semantic Potential* describes a connectionist model that learns perceptually grounded semantics for natural language in spatial terms. Languages differ in the ways in which they structure space, and Regier's aim is to have the model perform its learning task for terms from any natural language. The system has so far succeeded in learning spatial terms from English, German, Russian, Japanese, and Mixtec. The model views simple movies of two-dimensional objects moving relative to one another and learns to classify them linguistically in accordance with the spatial system of some natural language. The overall goal is to determine which sorts of spatial configurations and events are learnable as the semantics for spatial terms and which are not. Ultimately,

the model and its theoretical underpinnings are a step in the direction of articulating biologically based constraints on the nature of human semantic systems Along the way Regier takes up such substantial issues as the attraction and the liabilities of PDP and structured connectionist modeling the problem of learning without direct negative evidence and the area of linguistic universals which is addressed in the model itself Trained on spatial terms from different languages the model permits observations about the possible bases of linguistic universals and interlanguage variation

**The Semantics of Dynamic Space in French** Michel Aurnague, Dejan Stosic, 2019-07-29 Research on the semantics of spatial markers in French is known mainly through Vandeloise's 1986 1991 work on static prepositions However interest in the expression of space in French goes back to the mid 1970s and focused first on verbs denoting changes in space whose syntactic properties were related to specific semantic distinctions such as the opposition between movement and displacement This volume provides an overview of recent studies on the semantics of dynamic space in French and addresses important questions about motion expression among which goal bias and asymmetry of motion the status of locative PPs the expression of manner fictive or non actual motion Descriptive experimental and formal or computational analyses are presented providing complementary perspectives on the main issue The volume is intended for researchers and advanced students wishing to learn about both spatial semantics in French and recent debates on the representation of motion events in language and cognition

**Connectionism and the Philosophy of Psychology** Terry Horgan, John Tienson, 1996 In this volume the authors present their view of cognition They propose that unlike the classical paradigm that takes the mind to be a computer the mind is best understood as a dynamical system realized in a neural network

**From Perception to Meaning** Beate Hampe, 2008-08-22 The 1987 landmark publications by G Lakoff and M Johnson made image schema one of the cornerstone concepts of the emerging experientialist paradigm of Cognitive Linguistics a framework founded upon the rejection of the mind body dichotomy and stressing the fundamentally embodied nature of meaning imagination and reason hence language Conceived of as the pre linguistic dynamic and highly schematic gestalts arising directly from motor movement object manipulation and perceptual interaction image schemas served to anchor abstract reasoning and imagination to sensori motor patterns in the conceptual theory of metaphor Being itself informed by preceding crosslinguistic work on semantic primitives in the linguistic representations of spatial relations carried out by L Talmy R Langacker and others the notion has inspired a large amount of subsequent research and debate on diverse issues ranging from the meaning structure and acquisition of natural languages to the embodied mind itself From Perception to Meaning is the first survey of current image schema theory and offers a collection of original and innovative essays by leading scholars many of whom have shaped the theory from the very beginning The edition unites essays on major issues in recent research on image schemas from aspects of their definition and linguistic formalization their psychological status and neural grounding to their role as semantic universals and primitives in language acquisition The book will thus not only be welcomed by linguists of a cognitive

orientation but will prove relevant to philosophers psychologists and anthropologists interested in language and indeed to anyone studying the embodied mind      *Cognitive Linguistics - Foundations of Language* Ewa Dąbrowska, Dagmar Divjak, 2019-07-08 Cognitive foundations of language introduces the reader to the abilities and processes in which research in Cognitive Linguistics is grounded The book looks at key concepts such as embodiment salience entrenchment construal categorization and collaborative communication and discusses their genesis and implications for cognitive linguistic research

*Essentials of Cognitive Grammar* Ronald W. Langacker, 2013-02-28 Tailored to students this abridged version of Cognitive Grammar positions Langacker's authoritative work as an accessible attractive cornerstone of cognitive linguistics as the field continues to evolve      **Handbook of Categorization in Cognitive Science** Henri Cohen, Claire Lefebvre, 2017-06-03 Handbook of Categorization in Cognitive Science Second Edition presents the study of categories and the process of categorization as viewed through the lens of the founding disciplines of the cognitive sciences and how the study of categorization has long been at the core of each of these disciplines The literature on categorization reveals there is a plethora of definitions theories models and methods to apprehend this central object of study The contributions in this handbook reflect this diversity For example the notion of category is not uniform across these contributions and there are multiple definitions of the notion of concept Furthermore the study of category and categorization is approached differently within each discipline For some authors the categories themselves constitute the object of study whereas for others it is the process of categorization and for others still it is the technical manipulation of large chunks of information Finally yet another contrast has to do with the biological versus artificial nature of agents or categorizers Defines notions of category and categorization Discusses the nature of categories discrete vague or other Explores the modality effects on categories Bridges the category divide calling attention to the bridges that have already been built and avenues for further cross fertilization between disciplines      Language and Ideology René Dirven, Bruce Hawkins, Esra Sandikcioglu, 2001-02-27 Together with its sister volume on Descriptive Cognitive Approaches this volume explores the contribution which cognitive linguistics can make to the identification and analysis of overt and hidden ideologies As a theory of language which sees language as the accumulation of the conventionalised conceptualisations of a given linguistic and or cultural community or sub group within it cognitive linguistics is called upon to make its own inroads in the study of ideology This volume offers theoretical approaches and first discusses the philosophical foundations of cognitive linguistics The question whether cognitive linguistics is not an ideology itself is not tabooed The speaker's deictic centre is the anchoring point not only for spatial temporal or interactional deixis but also for cultural and ideological deixis Cognitive linguistics is also confronted with a severe Marxist critique but the potential convergence between the two philosophies is highlighted as well Further the question is raised to what extent the central nervous system and the grammatical system of a language impose sexually biased and hence ideological representations on cognition Finally linguistics itself is seen as a potential bearer of ideological

deviations as was the case with the politics of linguistics in Nazi Germany and even with the quest for the Indo European homeland in comparative and historical linguistics throughout the 19th century and well into the 20th century

**Substrate and Adstrate** Micah Corum, 2015-04-24 This volume provides a large scale in depth analysis of locative structures in Nigerian Pidgin and Ghanaian Pidgin English and compares those structures to locatives in their lexifier substrate and adstrate languages The work draws on new research methods for investigating substrate and adstrate influence in semantics and creole genesis

**Creativity, Cognition, and Knowledge** Terry Dartnall, 2002-06-30 This collection written by leading figures in cognitive science includes their lively debates with Dartnall about his call for a new epistemology an alternative to the standard representational story in cognitive science Dartnall aims to show that new epistemology is already with us in some leading edge models of human creativity Such an epistemology steers a middle road between the representationism of classical cognitive science and a radical anti representationism that denies the existence or importance of representations Dartnall who debates contributors at each chapter's end believes that creativity inheres not only in big ticket items such as plays poems or sonatas but in our ability to produce cognitive content at all so that representations are the creative products of our knowledge rather than its passive carriers

The Multiple Functions of Sensory-motor Representations Raffaella I. Rumiatì, Raffaella I. Rumiatì, Alfonso Caramazza, 2005 The papers in this volume consider the role of sensory motor processes and their neural structures in higher cognitive functions such as visual and motor imagery iconic memory and temporal judgment The evidence brought to bear on this issue comes from behavioral studies of brain damaged subjects and fMRI and TMS studies with normal subjects The issue also includes several theoretical reviews and discussions

*Formal Ontology in Information Systems* S. Borgo, P. Hitzler, O. Kutz, 2018-09-28 FOIS is the flagship conference of the International Association for Ontology and its Applications IAOA Its interdisciplinary research focus lies at the intersection of philosophical ontology linguistics logic cognitive science and computer science as well as in the applications of ontological analysis to conceptual modeling knowledge engineering knowledge management information systems development library and information science scientific research and semantic technologies in general This volume presents the proceedings of FOIS 2018 held in Cape Town South Africa from 19-21 September It was the 10th edition and 20th anniversary of the conference series The volume contains 19 papers grouped into 4 sections Foundations 7 papers Agents and Properties 4 papers Methods and Tools 4 papers and Applications 4 papers Regarding the applications of ontologies a broad spectrum of areas is covered including in particular biology and medicine IoT engineering and linguistics

*Formal Ontology in Information Systems Proceedings of the 10th International Conference FOIS 2018* will be of interest to researchers from all disciplines with an interest in formal ontology

**A Cognitive Theory of Cultural Meaning** Claudia Strauss, Naomi Quinn, 1997 Culture and meaning are central to anthropology but anthropologists do not agree on what they are Claudia Strauss and Naomi Quinn propose a new theory of cultural meaning one that gives priority to the way people's experiences are internalized Drawing on connectionist

or neural network models as well as other psychological theories they argue that cultural meanings are not fixed or limited to static groups but neither are they constantly revised and contested Their approach is illustrated by original research on understandings of marriage and ideas of success in the United States     *Language in Complexity* Francesco La Mantia, Ignazio Licata, Pietro Perconti, 2016-07-16 This contributed volume explores the achievements gained and the remaining puzzling questions by applying dynamical systems theory to the linguistic inquiry In particular the book is divided into three parts each one addressing one of the following topics 1 Facing complexity in the right way mathematics and complexity 2 Complexity and theory of language 3 From empirical observation to formal models investigation of specific linguistic phenomena like enunciation deixis or the meaning of the metaphorical phrases The application of complexity theory to describe cognitive phenomena is a recent and very promising trend in cognitive science At the time when dynamical approaches triggered a paradigm shift in cognitive science some decade ago the major topic of research were the challenges imposed by classical computational approaches dealing with the explanation of cognitive phenomena like consciousness decision making and language The target audience primarily comprises researchers and experts in the field but the book may also be beneficial for graduate and post graduate students who want to enter the field     **Handbook of Cognitive**

**Linguistics** Ewa Dabrowska, Dagmar Divjak, 2015-05-19 Cognitive Linguistics is an approach to language study based on the assumptions that our linguistic abilities are firmly rooted in our cognitive abilities that meaning is essentially conceptualization and that grammar is shaped by usage The Handbook of Cognitive Linguistics provides state of the art overviews of the numerous subfields of cognitive linguistics written by leading international experts which will be useful for established researchers and novices alike It is an interdisciplinary project with contributions from linguists psycholinguists psychologists and computer scientists which will emphasise the most recent developments in the field in particular the shift towards more empirically based research In this way it will we hope help to shape the field encouraging methodologically more rigorous research which incorporates insights from all the cognitive sciences Editor Ewa Dabrowska was awarded the Alexander von Humboldt Professorship 2018     *The Neural Mind* George Lakoff, Srini Narayanan, 2025-06-24 Offers an expansive unified theory of thought that brings together the vast resources of neuroscience computation and cognitive linguistics What is an idea and where does it come from We experience thought as if it were abstract but every thought is actually a physical thing carried out by the neural systems of our brains Thought does not occur neuron by neuron it happens when neurons come together to form circuits and when simple circuits combine to form complex ones Thoughts then derive their structures from the circuitry we also use for vision touch and hearing This circuitry is what allows simple thoughts to come together into complex concepts making meaning creating metaphors and framing our social and political ideas With *The Neural Mind* George Lakoff a pioneering cognitive linguist and computer scientist Srini Narayanan deftly combine insights from cognitive science computational modeling and linguistics to show how thoughts arise from the neural circuitry

that runs throughout our bodies They answer key questions about the ways we make meaning How does neural circuitry create the conceptual frames through which we understand our social lives What kind of neural circuitry characterizes metaphorical thought in which ideas are understood in terms of other ideas with similar structures Lively and accessible the book shows convincingly that the metaphors we live by to use Lakoff s famous phrase aren t abstractions but deeply embodied neural constructs The Neural Mind is the first book of its kind bringing together the ideas of multiple disciplines to offer a unified accessible theory of thought A field defining work Lakoff and Narayanan s book will be of interest not just to linguists and cognitive scientists but also to psychologists philosophers anthropologists journalists sociologists and political scientists and anyone who wants to understand how we really think **The Visual Narrative Reader** Neil Cohn,2016-01-28

Sequential images are as natural at conveying narratives as verbal language and have appeared throughout human history from cave paintings and tapestries right through to modern comics Contemporary research on this visual language of sequential images has been scattered across several fields linguistics psychology anthropology art education comics studies and others Only recently has this disparate research begun to be incorporated into a coherent understanding In The Visual Narrative Reader Neil Cohn collects chapters that cross these disciplinary divides from many of the foremost international researchers who explore fundamental questions about visual narratives How does the style of images impact their understanding How are metaphors and complex meanings conveyed by images How is meaning understood across sequential images How do children produce and comprehend sequential images Are visual narratives beneficial for education and literacy Do visual narrative systems differ across cultures and historical time periods This book provides a foundation of research for readers to engage in these fundamental questions and explore the most vital thinking about visual narrative It collects important papers and introduces review chapters summarizing the literature on specific approaches to understanding visual narratives The result is a comprehensive reader that can be used as a coursebook a researcher resource and a broad overview of fascinating topics suitable for anyone interested in the growing field of the visual language of comics and visual narratives **The Spatial Foundations of Cognition and Language** Kelly S. Mix,Linda B.

Smith,Michael Gasser,2010 This book presents recent research on the role of space as a mechanism in language use and learning Experimental psychologists computer scientists robotocists linguists and researchers in child language consider the nature and applications of this research and its implications for understanding the processes involved in language acquisition

**Future Directions for Intelligent Systems and Information Sciences** Nikola Kasabov,2013-11-11 This edited volume comprises invited chapters that cover five areas of the current and the future development of intelligent systems and information sciences Half of the chapters were presented as invited talks at the Workshop Future Directions for Intelligent Systems and Information Sciences held in Dunedin New Zealand 22 23 November 1999 after the International Conference on Neuro Information Processing ICONIPI ANZIISI ANNES 99 held in Perth Australia In order to make this volume useful for



researchers and academics in the broad area of information sciences I invited prominent researchers to submit materials and present their view about future paradigms future trends and directions Part I contains chapters on adaptive evolving learning systems These are systems that learn in a life long on line mode and in a changing environment The first chapter written by the editor presents briefly the paradigm of Evolving Connectionist Systems ECOS and some of their applications The chapter by Sung Bae Cho presents the paradigms of artificial life and evolutionary programming in the context of several applications mobile robots adaptive agents of the WWW The following three chapters written by R Duro J Santos and J A Becerra chapter 3 GCoghill chapter 4 Y Maeda chapter 5 introduce new techniques for building adaptive learning robots

The book delves into The Human Semantic Potential Spatial Language And Constrained Connectionism. The Human Semantic Potential Spatial Language And Constrained Connectionism is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into The Human Semantic Potential Spatial Language And Constrained Connectionism, encompassing both the fundamentals and more intricate discussions.

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  5. In chapter 4, the author will scrutinize the relevance of The Human Semantic Potential Spatial Language And Constrained Connectionism in specific contexts. This chapter will explore how The Human Semantic Potential Spatial Language And Constrained Connectionism is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about The Human Semantic Potential Spatial Language And Constrained Connectionism. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of The Human Semantic Potential Spatial Language And Constrained Connectionism.

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