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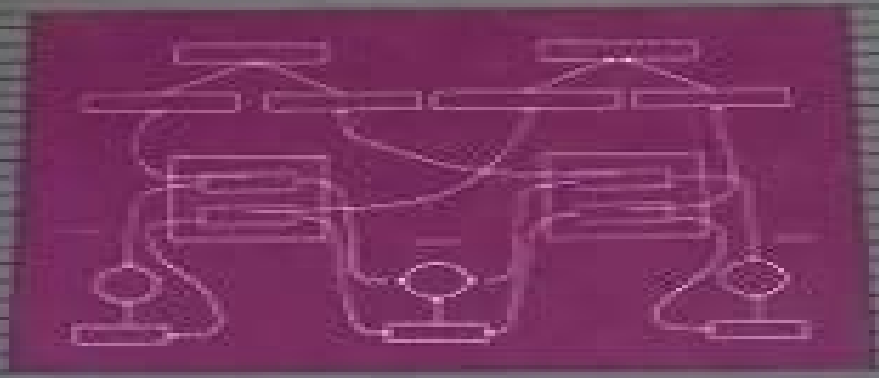
A Computational Model of Metaphor Interpretation



James H. Martin

A Computational Model Of Metaphor Interpretation

Liying Dong

A Computational Model Of Metaphor Interpretation:

A Computational Model of Metaphor Interpretation James H. Martin,1990 **Localist Principles of Meaning in a Computational Model of Metaphor Interpretation** Tony Veale,Mark T. Keane,1992 *Metaphor* Tony Veale,Ekaterina Shutova,Beata Beigman Klebanov,2016-02-29 The literary imagination may take flight on the wings of metaphor but hard headed scientists are just as likely as doe eyed poets to reach for a metaphor when the descriptive need arises Metaphor is a pervasive aspect of every genre of text and every register of speech and is as useful for describing the inner workings of a black hole itself a metaphor as it is the affairs of the human heart The ubiquity of metaphor in natural language thus poses a significant challenge for Natural Language Processing NLP systems and their builders who cannot afford to wait until the problems of literal language have been solved before turning their attention to figurative phenomena This book offers a comprehensive approach to the computational treatment of metaphor and its figurative brethren including simile analogy and conceptual blending that does not shy away from their important cognitive and philosophical dimensions Veale Shutova and Beigman Klebanov approach metaphor from multiple computational perspectives providing coverage of both symbolic and statistical approaches to interpretation and paraphrase generation while also considering key contributions from philosophy on what constitutes the meaning of a metaphor This book also surveys available metaphor corpora and discusses protocols for metaphor annotation Any reader with an interest in metaphor from beginning researchers to seasoned scholars will find this book to be an invaluable guide to what is a fascinating linguistic phenomenon **Computer Interpretation of Metaphoric Phrases** Sylvia Weber Russell,2015-11-13 The computational approach of this book is aimed at simulating the human ability to understand various kinds of phrases with a novel metaphoric component That is interpretations of metaphor as literal paraphrases are based on literal meanings of the metaphorically used words This method distinguishes itself from statistical approaches which in general do not account for novel usages and from efforts directed at metaphor constrained to one type of phrase or to a single topic domain The more interesting and novel metaphors appear to be based on concepts generally represented as nouns since such concepts can be understood from a variety of perspectives The core of the process of interpreting nominal concepts is to represent them in such a way that readers or hearers can infer which aspect s of the nominal concept is likely to be intended to be applied to its interpretation These aspects are defined in terms of verbal and adjectival predicates A section on the representation and processing of part sentence verbal metaphor will therefore also serve as preparation for the representation of salient aspects of metaphorically used nouns As the ability to process metaphorically used verbs and nouns facilitates the interpretation of more complex tropes computational analysis of two other kinds of metaphorically based expressions are outlined metaphoric compound nouns such as idea factory and together with the representation of inferences modified metaphoric idioms such as Put the cat back into the bag **Proceedings of the Sixteenth Annual Conference of the Cognitive Science Society** Ashwin Ram,Kurt Eiselt,2019-05-23 This volume

features the complete text of all regular papers posters and summaries of symposia presented at the 16th annual meeting of the Cognitive Science Society *Metaphor and Metonymy in the Digital Age* Marianna Bolognesi,Mario Brdar,Kristina Despot,2019-08-06 This book describes methods risks and challenges involved in the construction of metaphor and metonymy digital repositories The first part of this volume showcases established and new projects around the world in which metaphors and metonymies are harvested and classified The second part provides a series of cognitive linguistic studies focused on highlighting and discussing theoretical and methodological risks and challenges involved in building these digital resources The volume is a result of an interdisciplinary collaboration between cognitive linguists psychologists and computational scientists supporting an overarching idea that metaphor and metonymy play a central role in human cognition and that they are deeply entrenched in recurring patterns of bodily experience Throughout the volume a variety of methods are proposed to collect and analyze both conceptual metaphors and metonymies and their linguistic and visual expressions

Affective Computing and Sentiment Analysis Khurshid Ahmad,2011-08-24 This volume maps the watershed areas between two holy grails of computer science the identification and interpretation of affect including sentiment and mood The expression of sentiment and mood involves the use of metaphors especially in emotive situations Affect computing is rooted in hermeneutics philosophy political science and sociology and is now a key area of research in computer science The 24 7 news sites and blogs facilitate the expression and shaping of opinion locally and globally Sentiment analysis based on text and data mining is being used in the looking at news and blogs for purposes as diverse as brand management film reviews financial market analysis and prediction homeland security There are systems that learn how sentiments are articulated This work draws on and informs research in fields as varied as artificial intelligence especially reasoning and machine learning corpus based information extraction linguistics and psychology A Computational Theory of Metaphor James H. Martin,1988 Metaphor is a conventional and ordinary part of language A theory attempting to explain metaphor must acount for the ease with which conventional metaphors are understood and with the ability to understand novel metaphors as they are encountered An approach to metaphor based on the explicit representation of knowledge about metaphors has been deeloped to address these issues This approach asserts that the interpretation of conventional metaphoric language should proceed through the direct application of specific knowledge about the metaphors in the language Corespondingly the interpretation of novel metaphors can be accomplished through the systematic extension elaboration and combination of knowledge about already well understood metaphors MIDAS Metaphor Interpretation Denotation and Acquisition System is a computer program that embodies this approach MIDAS can be used to perform the following tasks represent knowledge about conventional metaphors interpret metaphoric language by applying this knowledge and dynamicallly learn new metaphors as they are encountered during normal processing Knowledge about conventional metaphors is represented in the form of coherent sets of associations between disparate conceptual domains the representation captures both the details of

individual metaphors and the systematicities exhibited by the set of metaphors in the language as a whole These systematic sets of associations were implemented using the KODIAK knowledge representation language MIDAS is capable of using this metphoric knowledge to interpret conventional metaphoric language The main thrust of this approach is that normal processing of metaphoric language proceeds through the direct application of specific knowledge about the metaphors in the language This approach gives equal status to all conventional metaphoric and literal interpretations Moreover the mechanisms used to arrive at metaphoric and literal interpretations are fundamentally the same When a meaphor is encountered for which MIDAS has no applicable knowledge MIDAS calls pon its learning component the Metaphor Extension System MES The approach embodies in the MES asserts that a novel metaphor can best be understood through the systematic extenion of an already wel understood metaphor MIDAS has been integrated as a part of the UNIX Consultant system UC is a natural language consultant system that provides naive computer users with advice on how to use the UNIX operating system By calling MIDAS UC can successfully interpret and learn conventional UNIX domain metaphors as they are encountered during the course of UC s normal processing *IJCAI* ,1995 An Aesthetic Theory for Metaphor Surekha Gillian Parker,1994 Cognitive Structures in Metaphor Comprehension Timothy Charles Clausner,1993 *Computational Linguistics* ,1992 IJCAI-95 International Joint Conferences on Artificial Intelligence,1995 An On-line Computational Model of Human Sentence Interpretation University of California, Berkeley. Computer Science Division,Daniel Saul Jurafsky,1992 The model includes a theory of grammar called Construction Based Interpretative Grammar CIG and an interpreter which uses the grammar to build an interpretation for single sentences An implemen tation ofhte interpreter has been built called Sal International Journal of Communication ,1996 *Journal of Semantics* ,1982 **Processing Metonymy and Metaphor** Dan Fass,1997-12-16 provides good answers to the expectations it title raisesthe book provides far more than just an approach for processing two tropes the whole methods gives a way to distinguish diifferent tropes and literal language to process meaning representations and to resolve lexical ambiguity Computational Linguistics **The American Mathematical Monthly** ,1991 The Cumulative Book Index ,1991 A world list of books in the English language ECAI 94 Proceedings A. G. Cohn,1994-11 A collection of refereed papers presented at the 11th European Conference on Artificial Intelligence held in Amsterdam The Netherlands in August 1994

Decoding **A Computational Model Of Metaphor Interpretation**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**A Computational Model Of Metaphor Interpretation**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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