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# Semantic Networks:

An Evidential Formalization and  
Its Connectionist Realization

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# Semantic Networks An Evidential Formalization And Its Connectionist Realization

**Risto Miikkulainen**



## **Semantic Networks An Evidential Formalization And Its Connectionist Realization:**

**Semantic Networks** Lokendra Shastri, 1988 Shastri's book describes how a high level specification of hierarchically structured knowledge about concepts and their properties may be encoded as a massively parallel network of simple processing elements. The evidential formalization of semantic networks leads to a principled treatment of exceptions, multiple inheritance, and conflicting information during inheritance and the best match or partial match computation during recognition. This formalization offers semantically justifiable solutions to a larger class of problems than existing formulations, e.g., default logic. The network operates without the intervention of a central controller or interpreter. The knowledge as well as mechanisms for drawing limited inferences on it are encoded within the network. It uses controlled spreading activation to solve inheritance and recognition problems in time proportional to the depth of the conceptual hierarchy, independent of the total number of concepts in the conceptual structure. The number of nodes in the connectionist network is at most quadratic in the number of concepts. The book has six chapters and one appendix. After the introduction in chapter 1, semantic networks, their properties, and formalizations are discussed in chapter 2. Especially the significance of inheritance and recognition and the evidential approach to it is pointed out here. Chapter 3 specifies a knowledge representation language. The problems of inheritance and recognition are reformulated in this language. In chapter 4, the evidential formalization and its application to inheritance and recognition are demonstrated. Section 4.1 derives an evidence combination rule. In the following two sections, this rule is compared to the DEMPSTER SHAFER evidence combination rule (section 4.2) and to the BAYES rule for computing conditional probabilities. The next two sections develop solutions to evidential inheritance (section 4.4) and evidential recognition (section 4.5) together with constraints for a conceptual structure. The connectionist realization of the memory network is developed in chapter 5. First, the need for parallelism is discussed (section 5.1), then the connectionist model (section 5.2) and other massively parallel models of semantic memory (section 5.3) are reviewed. The connectionist encoding of the high level specification is described in section 5.4 together with the connectivity and computational characteristics of node types. This is followed by examples of network encoding (section 5.5) and the elaboration of some implementation details (section 5.6). In section 5.7 and appendix A, there is a proof that the proposed network solves the inheritance and recognition problem in accordance with the evidential formulation and in time proportional to the depth of the conceptual hierarchy. Section 5.8 describes the simulation of the proposed system on a conventional computer together with simulation runs of test examples, often cited as being problematic. The book ends with a general discussion (chapter 6).

Semantic Networks for Understanding Scenes Gerhard Sagerer, Heinrich Niemann, 2013-06-29

Figure 1.1 An outdoor scene. A bus is passing three cars which are parking between trees at the side of the road. Houses having two storeys are lined up at the street.

3.4 Introduction

Figure 1.2 An assembly scene. There seems to be a small open place between the group of houses in the foreground and the store in the background. In such or a similar way, the content of the natural scene shown above can be

described It is quite easy to give such a short description The problem is somewhat more complex for the second image First of all it can be stated that the image does not show an everyday scene It appears as a kind of man made surrounding But everyone can accept the following statements about this image 1 The image shows a snapshot of an assembly line 2 The robot in front is screwing 3 There is no person in the working area of the robots 4 All objects on the conveyor belt are worked on by robots There are no free objects on the belt

**Principles of Semantic Networks** John F. Sowa, 2014-07-10

Principles of Semantic Networks Explorations in the Representation of Knowledge provides information pertinent to the theory and applications of semantic networks This book deals with issues in knowledge representation which discusses theoretical topics independent of particular implementations Organized into three parts encompassing 19 chapters this book begins with an overview of semantic network structure for representing knowledge as a pattern of interconnected nodes and arcs This text then analyzes the concepts of subsumption and taxonomy and synthesizes a framework that integrates many previous approaches and goes beyond them to provide an account of abstract and partially defines concepts Other chapters consider formal analyses which treat the methods of reasoning with semantic networks and their computational complexity This book discusses as well encoding linguistic knowledge The final chapter deals with a formal approach to knowledge representation that builds on ideas originating outside the artificial intelligence literature in research on foundations for programming languages This book is a valuable resource for mathematicians

A Symbolic and Connectionist Approach To Legal Information Retrieval Daniel E. Rose, 2013-06-17 Many existing information retrieval IR systems are surprisingly ineffective at finding documents relevant to particular topics Traditional systems are extremely brittle failing to retrieve relevant documents unless the user's exact search string is found They support only the most primitive trial and error interaction with their users and are also static Even systems with so called relevance feedback are incapable of learning from experience with users SCALIR a Symbolic and Connectionist Approach to Legal Information Retrieval a system for assisting research on copyright law has been designed to address these problems By using a hybrid of symbolic and connectionist artificial intelligence techniques SCALIR develops a conceptual representation of document relationships without explicit knowledge engineering SCALIR's direct manipulation interface encourages users to browse through the space of documents It then uses these browsing patterns to improve its performance by modifying its representation resulting in a communal repository of expertise for all of its users SCALIR's representational scheme also mirrors the hybrid nature of the Anglo American legal system While certain legal concepts are precise and rule like others which legal scholars call open textured are subject to interpretation The meaning of legal text is established through the parallel and distributed precedence based judicial appeal system SCALIR represents documents and terms as nodes in a network capturing the duality of the legal system by using symbolic semantic network and connectionist links The former correspond to a priori knowledge such as the fact that one case overturned another on appeal The latter correspond to statistical inferences such as the relevance of a

term describing a case SCALIR's text corpus includes all federal cases on copyright law The hybrid representation also suggests a way to resolve the apparent incompatibility between the two prominent paradigms in artificial intelligence the classical symbol manipulation approach and the neurally inspired connectionist approach Part of the book focuses on a characterization of the two paradigms and an investigation of when and how as in the legal research domain they can be effectively combined

*Connectionism and the Philosophy of Mind* T. Horgan, J. Tienson, 2012-12-06 This series will include monographs and collections of studies devoted to the investigation and exploration of knowledge information and data processing systems of all kinds no matter whether human other animal or machine Its scope is intended to span the full range of interests from classical problems in the philosophy of mind and philosophical psychology through issues in cognitive psychology and sociobiology concerning the mental capabilities of other species to ideas related to artificial intelligence and to computer science While primary emphasis will be placed upon theoretical conceptual and epistemological aspects of these problems and domains empirical experimental and methodological studies will also appear from time to time One of the most if not the most exciting developments within cognitive science has been the emergence of connectionism as an alternative to the computational conception of the mind that tends to dominate the discipline In this volume John Tienson and Terence Horgan have brought together a fine collection of stimulating studies on connectionism and its significance As the Introduction explains the most pressing questions concern whether or not connectionism can provide a new conception of the nature of mentality By focusing on the similarities and differences between connectionism and other approaches to cognitive science the chapters of this book supply valuable resources that advance our understanding of these difficult issues J H F

Program of the Ninth Annual Conference of the Cognitive Science Society Cognitive Science Society (U.S.).

Conference, 1987 First Published in 1987 Routledge is an imprint of Taylor Francis an informa company

*Semantic Networks* Lokendra Shastri, 1988 Shastri's book describes how a high level specification of hierarchically structured knowledge about concepts and their properties may be encoded as a massively parallel network of a simple processing elements The evidential formalization of semantic networks leads to a principled treatment of exceptions multiple inheritance and conflicting information during inheritance and the best match or partial match computation during recognition This formalization offers semantically justifiable solutions to a larger class of problems than existing formulations e.g. default logic The network operates without the intervention of a central controller or interpreter The knowledge as well as mechanisms for drawing limited inferences on it are encoded within the network It uses controlled spreading activation to solve inheritance and recognition problems in time proportional to the depth of the conceptual hierarchy independent of the total number of concepts in the conceptual structure The number of nodes in the connectionist network is at most quadratic in the number of concepts The book has six chapters and one appendix After the introduction in chapter 1 semantic networks their properties and formalizations are discussed in chapter 2 Especially the significance of inheritance and recognition and the

evidential approach to it is pointed out here Chapter 3 specifies a knowledge representation language The problems of inheritance and recognition are reformulated in this language In chapter 4 the evidential formalization and its application to inheritance and recognition are demonstrated Section 4 1 derives an evidence combination rule In the following two sections this rule is compared to the DEMPSTER SHAFER evidence combination rule section 4 2 and to the BAYES rule for computing conditional probabilities The next two sections develop solutions to evidential inheritance section 4 4 and evidential recognition section 4 5 together with constraints for a conceptual structure The connectionist realization of the memory network is developed in chapter 5 First the need for parallelism is discussed section 5 1 then the connectionist model section 5 2 and other massively parallel models of semantic memory section 5 3 are reviewed The connectionist encoding of the high level specification is described in section 5 4 together with the connectivity and computational characteristics of node types This is followed by examples of network encoding section 5 5 and the elaboration of some implementation details section 5 6 In section 5 7 and appendix A there is a proof that the proposed network solves the inheritance and recognition problem in accordance with the evidential formulation and in time proportional to the depth of the conceptual hierarchy Section 5 8 describes the simulation of the proposed system on a conventional computer together with simulation runs of test examples often cited as being problematic The book ends with a general discussion chapter 6

FAA/NASA En Route Noise Symposium ,1990

*Knowledge Representation and Metaphor* E. Cornell Way,2013-03-14 This series will include monographs and collections of studies devoted to the investigation and exploration of knowledge information and data processing systems of all kinds no matter whether human other animal or machine Its scope is intended to span the full range of interests from classical problems in the philosophy of mind and philosophical psychology through issues in cognitive psychology and sociobiology concerning the mental capabilities of other species to ideas related to artificial intelligence and computer science While primary emphasis will be placed upon theoretical conceptual and epistemological aspects of these problems and domains empirical experimental and methodological studies will also appear from time to time The problems posed by metaphor and analogy are among the most challenging that confront the field of knowledge representation In this study Eileen Way has drawn upon the combined resources of philosophy psychology and computer science in developing a systematic and illuminating theoretical framework for understanding metaphors and analogies While her work provides solutions to difficult problems of knowledge representation it goes much further by investigating some of the most important philosophical assumptions that prevail within artificial intelligence today By exposing the limitations inherent in the assumption that languages are both literal and truth functional she has advanced our grasp of the nature of language itself J R F

Emergent Neural Computational Architectures Based on Neuroscience Stefan Wermter,David Willshaw,2001-07-25 It is generally understood that the present approaches to computing do not have the performance flexibility and reliability of biological information processing systems Although there is a comprehensive body of knowledge

regarding how information processing occurs in the brain and central nervous system this has had little impact on mainstream computing so far This book presents a broad spectrum of current research into biologically inspired computational systems and thus contributes towards developing new computational approaches based on neuroscience The 39 revised full papers by leading researchers were carefully selected and reviewed for inclusion in this anthology Besides an introductory overview by the volume editors the book offers topical parts on modular organization and robustness timing and synchronization and learning and memory storage

**Artificial Intelligence Methods and Applications** Nikolaos G. Bourbakis, 1992 This volume is the first in a series which deals with the challenge of AI issues gives updates of AI methods and applications and promotes high quality new ideas techniques and methodologies in AI This volume contains articles by 38 specialists in various AI subfields covering theoretical and application issues

**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

*Computational Neuroscience: Trends in Research 2003* E. De Schutter, 2003-06-20 This volume includes papers originally presented at the 11th annual Computational Neuroscience Meeting CNS 02 held in July 2002 at the Congress Plaza Hotel Convention Center in Chicago Illinois USA The CNS meetings bring together computational neuroscientists representing many different fields and backgrounds as well as many different experimental preparations and theoretical approaches The papers published here range from pure experimental neurobiology to neuro ethology mathematics physics and engineering In all cases the research described is focused on understanding how nervous systems compute The actual subjects of the research include a highly diverse number of preparations modeling approaches and analysis techniques Accordingly this volume reflects the breadth and depth of current research in computational neuroscience taking place throughout the world

1990 Goddard Conference on Space Applications of Artificial Intelligence James L. Rash, 1990

Subsymbolic Natural Language

Processing Risto Miikkulainen, 1993 Risto Miikkulainen draws on recent connectionist work in language comprehension to create a model that can understand natural language Using the DISCERN system as an example he describes a general approach to building high level cognitive models from distributed neural networks and shows how the special properties of such networks are useful in modeling human performance In this approach connectionist networks are not only plausible models of isolated cognitive phenomena but also sufficient constituents for complete artificial intelligence systems Distributed neural networks have been very successful in modeling isolated cognitive phenomena but complex high level behavior has been tractable only with symbolic artificial intelligence techniques Aiming to bridge this gap Miikkulainen describes DISCERN a complete natural language processing system implemented entirely at the subsymbolic level In DISCERN distributed neural network models of parsing generating reasoning lexical processing and episodic memory are integrated into a single system that learns to read paraphrase and answer questions about stereotypical narratives Miikkulainen's work which includes a comprehensive survey of the connectionist literature related to natural language processing will prove especially valuable to researchers interested in practical techniques for high level representation inferencing memory modeling and modular connectionist architectures Risto Miikkulainen is an Assistant Professor in the Department of Computer Sciences at The University of Texas at Austin

Parallelization in Inference Systems Bertram Fronhöfer, Graham Wrightson, 1992-04-22 This volume contains the proceedings of an international workshop on parallelism in inference systems held in Germany in December 1990 The topic of the workshop is still rather young and several papers in the book are overview articles intended to provide a first orientation toward some of the more intensively investigated subtopics The main part of the book is a compilation of research papers on parallelization in special domains of inference such as rewriting automatic reasoning logic programming and connectionist inference Appended to the book is a collection of short project summaries received in response to a worldwide email call The book is intended primarily for researchers working on inference systems who are interested in parallelizing their systems

**The Mathematics of Inheritance Systems** David S. Touretzky, 1986

Parallel Processing for Artificial Intelligence 3 J. Geller, H. Kitano, C.B. Suttner, 1997-02-10 The third in an informal series of books about parallel processing for Artificial Intelligence this volume is based on the assumption that the computational demands of many AI tasks can be better served by parallel architectures than by the currently popular workstations However no assumption is made about the kind of parallelism to be used Transputers Connection Machines farms of workstations Cellular Neural Networks Crays and other hardware paradigms of parallelism are used by the authors of this collection The papers arise from the areas of parallel knowledge representation neural modeling parallel non monotonic reasoning search and partitioning constraint satisfaction theorem proving parallel decision trees parallel programming languages and low level computer vision The final paper is an experience report about applications of massive parallelism which can be said to capture the spirit of a whole period of computing history This volume provides the reader



with a snapshot of the state of the art in Parallel Processing for Artificial Intelligence      *Computational Intelligence, II* G. Mauri, M. Filippini, F. Gardin, 1990-06-01 The focus of this volume is Heterogeneous Knowledge and Problem Solving Integration i.e. the combined use of different knowledge representation and problem solving paradigms This is a central topic for the design and implementation of problem solving systems since from a pragmatic and engineering standpoint the solution of a large class of problems cannot take place within one single representation language or problem solving paradigm Heterogeneous systems represent not only a pragmatic answer but also a theoretical alternative to the homogeneous paradigms      **Proceedings of the 25th Annual Cognitive Science Society** Richard Alterman, David Kirsch, 2013-12-16 This volume features the complete text of the material presented at the Twenty Fifth Annual Conference of the Cognitive Science Society As in previous years the symposium included an interesting mixture of papers on many topics from researchers with diverse backgrounds and different goals presenting a multifaceted view of cognitive science This volume includes all papers posters and summaries of symposia presented at the leading conference that brings cognitive scientists together The theme of this year's conference was the social cultural and contextual elements of cognition including topics on collaboration cultural learning distributed cognition and interaction

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