WORKSHOP REPORT

High-Level Connectionist Models

Jordan Pollack

A workshop on high-level commerionist models was held in Las Cruces. New Mexico. on 9-11 April 1988 with support from the American Association for Artificial Intelligence and the Office of Novol Research. John Barnden and Jordan Pollack organized and hosted the workshop and will edit a book containing the proceedings and commertary. The book will be published by Ablex as the first volume in a series entitled Advances in Connectionist and Neural Computation Theory.

he purpose of this workshop was to bring together a small group of computer scientists to focus on the interaction between AI and connectionism. The two fields are often posed as paradigmatic enemies, and a risk of severing them exists, (See Dreyfus and Dreyfus 1988 and other papers in the recent issue of Daedalus.) Few connectionist results are published in the mainstream Al journals and conference proceedings other than those sponsored by the Cognitive Science Society, and many neural-network researchers and industrialists proceed without consideration. of the problems (and progress) of AL

The workshop was assembled by invitation, and we strove for both geographic and ideological breadth. The questions posed to the participants involved the application of connectionism to traditionally symbolic tasks, approaches to overcoming some of the limitations exhibited by connectionist models of the past several years, and opportunities for connectionism to make contributions to the study of cognition.

The participants were Wendy Lehnert, Michael Dyer, and James Hendler (testers of the connectionist waters); Garrison Cottrell and Jeffrey Elman prepresentatives of the hard-line Parallel Distributed Processing school); Lokendra Shastri and Joachim Diederich (the Feldman school); Mark Derthick and David Touretzky (the Hinton schooll, Lawrence Bookman (the Waltz school), and Lawrence Birnbaum (the loyal opposition). In addition, Jordan Pollack, John Barnden, and Roger Schvaneveldt represented their own school, New Mexico State Ukniwersity.

Participants were given exactly 1 hour to present their views and manage the oftentimes vociferous audience. The 14 presentations were squeezed into 2 1/2 days, including long, social evenings. The workshop ended with a visit to White Sands National Monument. The following is a summary of each person's presentation (in alphabetical order), then a discussion of some of the major themes that emerged from the workshop.

Presentation Summaries

John Barnden, (1986, 1987, 1988), New Mexico State University (NMSU), described the current status and future plans for his CONPOSIT system. Implemented on NASA's Massively Parallel Processor, the system makes use of a two-dimensional array of recisters constructed of simple neuronlike processors, it can represent complex symbolic structures using adjacency between registers as a form of variable binding. Barnden demonstrated how production rules are currently implemented and timed and proposed how a large set of such rules could be managed. He also showed that his system could reason syllogistically, directly implementing Johnson-Laird's notion of a mental model (Johnson-Laied and Bara 1984).

Lawrence Birnbaum, Yale University, spoke about hard problems in planning and understanding that would not "just go away" for connectionists. He gave several examples of abstract schemata that require long chains of inferences in order to be recognized and situations which require such recognition in order to be understood (Birnbaum 1986). One example, a variant of one of Eugene Charniak's (1983) marker-passing stories, involved a detective following a suspect into a hardware store. After being spotted by

<u>Highlevel Connectionist Models</u>

Richard P. Cooper With
Contributi, Peter G. Yule, John
Fox, David W. Glasspool, Richard P.
Cooper

Highlevel Connectionist Models:

Analogical Connections Keith James Holyoak, John A. Barnden, 1994 Presenting research on the computational abilities of connectionist neural and neurally inspired systems this series emphasizes the question of how connectionist or neural network models can be made to perform rapid short term types of computation that are useful in higher level cognitive processes The most recent volumes are directed mainly at researchers in connectionism analogy metaphor and case based reasoning but are also suitable for graduate courses in those areas High-level Connectionist Models John A. Barnden, Jordan B. Pollack, 1991 Presenting research on the computational abilities of connectionist neural and neurally inspired systems this series emphasizes the question of how connectionist or neural network models can be made to perform rapid short term types of computation useful in higher cognitive processes. The most recent volumes are directed mainly at researchers in connectionism analogy metaphor and case based reasoning but are also suitable for graduate courses in those Modelling High-level Cognitive Processes Richard P. Cooper With Contributi, Peter G. Yule, John Fox, David W. Glasspool, Richard P. Cooper, 2013-05-13 This book is a practical guide to building computational models of high level cognitive processes and systems High level processes are those central cognitive processes involved in thinking reasoning planning and so on These processes appear to share representational and processing requirements and it is for this reason that they are considered together in this text The book is divided into three parts Part I considers foundational and background issues Part II provides a series of case studies spanning a range of cognitive domains Part III reflects upon issues raised by the case studies Teachers of cognitive modeling may use material from Part I to structure lectures and practical sessions with chapters in Part II forming the basis of in depth student projects All models discussed in this book are developed within the COGENT environments COGENT provides a graphical interface in which models may be sketched as box and arrow diagrams and is both a useful teaching tool and a productive research tool As such this book is designed to be of use to both students of cognitive modeling and active researchers For students the book provides essential background material plus an extensive set of example models exercises and project material Researchers of both symbolic and connectionist persuasions will find the book of interest for its approach to cognitive modeling which emphasizes methodological issues They will also find that the COGENT environment itself has much to offer **Connectionist Models** David S. Touretzky, Jeffrey L. Elman, Terrence J. Sejnowski, 2014-05-12 Connectionist Models contains the proceedings of the 1990 Connectionist Models Summer School held at the University of California at San Diego The summer school provided a forum for students and faculty to assess the state of the art with regards to connectionist modeling Topics covered range from theoretical analysis of networks to empirical investigations of learning algorithms speech and image processing cognitive psychology computational neuroscience and VLSI design Comprised of 40 chapters this book begins with an introduction to mean field Boltzmann and Hopfield networks focusing on deterministic Boltzmann learning in networks with

asymmetric connectivity contrastive Hebbian learning in the continuous Hopfield model and energy minimization and the satisfiability of propositional logic Mean field networks that learn to discriminate temporally distorted strings are described The next sections are devoted to reinforcement learning and genetic learning along with temporal processing and modularity Cognitive modeling and symbol processing as well as VLSI implementation are also discussed This monograph will be of interest to both students and academicians concerned with connectionist modeling Computational Architectures Integrating Neural and Symbolic Processes Ron Sun, Lawrence A. Bookman, 2007-08-19 Computational Architectures Integrating Neural and Symbolic Processes A Perspective on the State of the Art focuses on a currently emerging body of research With the reemergence of neural networks in the 1980s with their emphasis on overcoming some of the limitations of symbolic AI there is clearly a need to support some form of high level symbolic processing in connectionist networks As argued by many researchers on both the symbolic AI and connectionist sides many cognitive tasks e g language understanding and common sense reasoning seem to require high level symbolic capabilities. How these capabilities are realized in connectionist networks is a difficult question and it constitutes the focus of this book Computational Architectures Integrating Neural and Symbolic Processes addresses the underlying architectural aspects of the integration of neural and symbolic processes In order to provide a basis for a deeper understanding of existing divergent approaches and provide insight for further developments in this field this book presents 1 an examination of specific architectures grouped together according to their approaches their strengths and weaknesses why they work and what they predict and 2 a critique comparison of these approaches Computational Architectures Integrating Neural and Symbolic Processes is of interest to researchers graduate students and interested laymen in areas such as cognitive science artificial intelligence computer science cognitive psychology and neurocomputing in keeping up to date with the newest research trends It is a comprehensive in depth introduction to this new emerging field Neural Network Perspectives on Cognition and Adaptive Robotics A Browne, 2019-08-20 Featuring an international team of authors Neural Network Perspectives on Cognition and Adaptive Robotics presents several approaches to the modeling of human cognition and language using neural computing techniques It also describes how adaptive robotic systems can be produced using neural network architectures Covering a wide range of mainstream area and trends each chapter provides the latest information from a different perspective

Neural Networks for Knowledge Representation and Inference Daniel S. Levine, Manuel Aparicio IV, 2013-04-15 The second published collection based on a conference sponsored by the Metroplex Institute for Neural Dynamics the first is Motivation Emotion and Goal Direction in Neural Networks LEA 1992 this book addresses the controversy between symbolicist artificial intelligence and neural network theory A particular issue is how well neural networks well established for statistical pattern matching can perform the higher cognitive functions that are more often associated with symbolic approaches This controversy has a long history but recently erupted with arguments against the abilities of renewed neural

network developments More broadly than other attempts the diverse contributions presented here not only address the theory and implementation of artificial neural networks for higher cognitive functions but also critique the history of assumed epistemologies both neural networks and AI and include several neurobiological studies of human cognition as a real system to guide the further development of artificial ones Organized into four major sections this volume outlines the history of the AI neural network controversy the strengths and weaknesses of both approaches and shows the various capabilities such as generalization and discreetness as being along a broad but common continuum introduces several explicit theoretical structures demonstrating the functional equivalences of neurocomputing with the staple objects of computer science and AI such as sets and graphs shows variants on these types of networks that are applied in a variety of spheres including reasoning from a geographic database legal decision making story comprehension and performing arithmetic operations discusses knowledge representation process in living organisms including evidence from experimental psychology behavioral neurobiology and electroencephalographic responses to sensory stimuli The Neuropsychology of High-level Vision Martha J. Farah, Graham Ratcliff, 2013-04-15 This book provides a state of the art review of high level vision and the brain Topics covered include object representation and recognition category specific visual knowledge perceptual processes in reading top down processes in vision including attention and mental imagery and the relations between vision and conscious awareness Each chapter includes a tutorial overview emphasizing the current state of knowledge and outstanding theoretical issues in the authors area of research along with a more in depth report of an illustrative research project in the same area The editors and contributors to this volume are among the most respected figures in the field of neuropsychology and perception making the work presented here a standard setting text and reference in that area Language Acquisition and <u>Language Socialization</u> Claire Kramsch, 2003-02-01 This is an outstanding collection of papers by top scholars in a range of disciplines who shed stimulating complementary insights into the social cognitive and semiotic frameworks that shape both the acquisition of language and the constitution of social actors through that process The intentionally loose ecological framing of the volume provides an arena within which a range of perspectives all united by their opposition to a mechanistic view of language acquisition can enter into dialogue with each other This is a most stimulating collection with a range of insightful investigations of settings as diverse as an autistic child learning to interact with others on the playing field professional gate keeping encounters and foreign language classrooms Professor Charles Goodwin University of California at Los Angeles The book brings together well known scholars in two relatively distinct fields language acquisition and language socialization and from a variety of orientations within applied linguistics to describe language development from a relational perspective The papers in this volume are a response to three main questions 1 What conceptual models best capture the ecological nature of language learning 2 What research approaches are best likely to illuminate the relationship between language and social structure 3 How is educational success defined for language acquisition and language socialization

Handbook of Natural Language Processing Robert Dale, Hermann Moisl, Harold Somers, 2000-07-25 This study explores the design and application of natural language text based processing systems based on generative linguistics empirical copus analysis and artificial neural networks It emphasizes the practical tools to accommodate the selected system

The Routledge Handbook of Phonological Theory S.J. Hannahs, Anna Bosch, 2017-12-14 The Routledge Handbook of Phonological Theory provides a comprehensive overview of the major contemporary approaches to phonology Phonology is frequently defined as the systematic organisation of the sounds of human language For some this includes aspects of both the surface phonetics together with systematic structural properties of the sound system for others phonology is seen as distinct from and autonomous from phonetics The Routledge Handbook of Phonological Theory surveys the differing ways in which phonology is viewed with a focus on current approaches to phonology Divided into two parts this handbook covers major conceptual frameworks within phonology including rule based phonology Optimality Theory Government Phonology Dependency Phonology and connectionist approaches to generative phonology explores the central issue of the relationship between phonetics and phonology features 23 chapters written by leading academics from around the world The Routledge Handbook of Phonological Theory is an authoritative survey of this key field in linguistics and is essential reading for students studying phonology An Introduction to Cognitive Psychology David Groome, 2013-12-19 First Published in 2007 Routledge is an imprint of Taylor Francis an informa company The Routledge Handbook of the Computational Mind Mark Sprevak, Matteo Colombo, 2018-09-13 Computational approaches dominate contemporary cognitive science promising a unified scientific explanation of how the mind works However computational approaches raise major philosophical and scientific questions In what sense is the mind computational How do computational approaches explain perception learning and decision making What kinds of challenges should computational approaches overcome to advance our understanding of mind brain and behaviour The Routledge Handbook of the Computational Mind is an outstanding overview and exploration of these issues and the first philosophical collection of its kind Comprising thirty five chapters by an international team of contributors from different disciplines the Handbook is organised into four parts History and future prospects of computational approaches Types of computational approach Foundations and challenges of computational approaches Applications to specific parts of psychology Essential reading for students and researchers in philosophy of mind philosophy of psychology and philosophy of science The Routledge Handbook of the Computational Mind will also be of interest to those studying computational models in related subjects such as psychology neuroscience and computer science

Human and Machine Vision II Azriel Rosenfeld,2014-05-10 Perspectives in Computing Human and Machine Vision II compiles papers presented at the second Workshop on Human and Machine Vision held in Montreal Canada on August 1 3 1984 This book discusses the perception of transparency in man and machine human image understanding and connectionist models and parallelism in high level vision The theory of the perceived spatial layout of scenes generative systems of

analyzers and codon constraints on closed 2D shapes are also elaborated This text likewise covers the environment and viewer centered perception of surface orientation autonomous scene description with range imagery and pre attentive processing in vision This publication is recommended for students and researchers interested in both fields of visual perception and computer vision 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

Understanding Language Understanding Ashwin Ram, Kenneth Moorman, 1999 This book highlights cutting edge research relevant to the building of a computational model of reading comprehension as in the processing and understanding of a natural language text or story The book takes an interdisciplinary approach to the study of reading with contributions from computer science psychology and philosophy Contributors cover the theoretical and psychological foundations of the research in discussions of what it means to understand a text how one builds a computational model and related issues in knowledge representation and reasoning The book also addresses some of the broader issues that a natural language system must deal with such as reading in context linguistic novelty and information extraction *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 Scientific and Technical Aerospace Reports ,1993

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 Integrating Rules and Connectionism for Robust Commonsense Reasoning Ron Sun,1994-02-21 Along with this framework the book proposes a set of interrelated new ideas regarding the modeling of commonsense reasoning which are highly relevant to current research in AI and cognitive science and the ongoing methodological debate

Reviewing **Highlevel Connectionist Models**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Highlevel Connectionist Models**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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