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A COMPUTATIONAL MODEL OF FIRST LANGUAGE ACQUISITION

Nobuo Satake

World Scientific

Computational Model Of First Language Acquisition

Thierry Poibeau, Aline Villavicencio



Computational Model Of First Language Acquisition:

A Computational Model of First Language Acquisition Nobuo Satake, 1990 This book describes a study on the question of what sort of innate knowledge it is that enables children to acquire a first language The author using a computational approach builds a model named BUD Bring Up a Daughter on the basis of the data linguists and psychologists have collected BUD is based on the empiricists view of first language acquisition as opposed to that of the nativists that children make a number of rules in acquiring a first language and that over generalizations can be found in the acquisition of every aspect of a language Thus BUD has no built in procedure by which it computes the structures of a language A detailed description of the BUD model and its workings answers the question on which the study is based

Computational Modeling of Human Language Acquisition Afra Alishahi, 2010-10-10 Human language acquisition has been studied for centuries but using computational modeling for such studies is a relatively recent trend However computational approaches to language learning have become increasingly popular mainly due to advances in developing machine learning techniques and the availability of vast collections of experimental data on child language learning and child adult interaction Many of the existing computational models attempt to study the complex task of learning a language under cognitive plausibility criteria such as memory and processing limitations that humans face and to explain the developmental stages observed in children By simulating the process of child language learning computational models can show us which linguistic representations are learnable from the input that children have access to and which mechanisms yield the same patterns of behaviour that children exhibit during this process In doing so computational modeling provides insight into the plausible mechanisms involved in human language acquisition and inspires the development of better language models and techniques This book provides an overview of the main research questions in the field of human language acquisition It reviews the most commonly used computational frameworks methodologies and resources for modeling child language learning and the evaluation techniques used for assessing these computational models The book is aimed at cognitive scientists who want to become familiar with the available computational methods for investigating problems related to human language acquisition as well as computational linguists who are interested in applying their skills to the study of child language acquisition Different aspects of language learning are discussed in separate chapters including the acquisition of the individual words the general regularities which govern word and sentence form and the associations between form and meaning For each of these aspects the challenges of the task are discussed and the relevant empirical findings on children are summarized Furthermore the existing computational models that attempt to simulate the task under study are reviewed and a number of case studies are presented

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A Computational Model of Language Acquisition in the Two-year-old Jane Anne Collins Hill, 1983

Cognitive Aspects of Computational Language Acquisition Aline

Villavicencio,Thierry Poibeau,Anna Korhonen,Afra Alishahi,2013-01-11 Questions related to language acquisition have been of interest for many centuries as children seem to acquire a sophisticated capacity for processing language with apparent ease in the face of ambiguity noise and uncertainty However with recent advances in technology and cognitive related research it is now possible to conduct large scale computational investigations of these issues The book discusses some of the latest theoretical and practical developments in the areas involved including computational models for language tasks tools and resources that help to approximate the linguistic environment available to children during acquisition and discussions of challenging aspects of language that children have to master This is a much needed collection that provides a cross section of recent multidisciplinary research on the computational modeling of language acquisition It is targeted at anyone interested in the relevance of computational techniques for understanding language acquisition Readers of this book will be introduced to some of the latest approaches to these tasks including Models of acquisition of various types of linguistic information from words to syntax and semantics and their relevance to research on human language acquisition Analysis of linguistic and contextual factors that influence acquisition Resources and tools for investigating these tasks Each chapter is presented in a self contained manner providing a detailed description of the relevant aspects related to research on language acquisition and includes illustrations and tables to complement these in depth discussions Though there are no formal prerequisites some familiarity with the basic concepts of human and computational language acquisition is beneficial

Language, Cognition, and Computational Models Thierry Poibeau,Aline Villavicencio,2018-01-25 This book uses recent computational models to explore issues related to language and cognition Artificial Intelligence in the Pacific Rim Hozumi Tanaka,1991 In the last decade AI firmly settled into our industrial society with the expert systems as the representative product However almost every one of the systems could cover only a single task domain In the highly mechanized world of the 21st century systems will become smart and user friendly enough to cover a wide range of task domains Systems with much user friendliness must be multilingual because users in different domains usually have different languages Language is formed in its own culture Therefore promotion for cross cultural scientific interchange will be indispensable for the progress of AI Computational Models for First Language Acquisition P. J. Buttery,2006 **Computational Models for First Language Acquisition** Paula Buttery,2006 **From OV to VO in Early Middle English** Carola Trips,2002 Discusses syntax and word order changes in Middle English dialects with an emphasis on the shift from sentences where the object precedes the verb to those where the verb comes first and considers pronouns and literary style **Computational Linguistics** ,1999 *50 years after the perceptron, 25 years after PDP: Neural computation in language sciences* Julien Mayor,Pablo Gomez,Franklin Chang, Gary Lupyan,2014-08-11 This Research Topic aims to showcase the state of the art in language research while celebrating the 25th anniversary of the tremendously influential work of the PDP group and the 50th anniversary of the perceptron Although PDP models are often the gold standard to which new models are compared the

scope of this Research Topic is not constrained to connectionist models. Instead we aimed to create a landmark forum in which experts in the field define the state of the art and future directions of the psychological processes underlying language learning and use broadly defined. We thus called for papers involving computational modeling and original research as well as technical philosophical or historical discussions pertaining to models of cognition. We especially encouraged submissions aimed at contrasting different computational frameworks and their relationship to imaging and behavioral data. The MIT Encyclopedia of the Cognitive Sciences (MITECS) Robert A. Wilson, Frank C. Keil, 2001-09-04. Since the 1970s the cognitive sciences have offered multidisciplinary ways of understanding the mind and cognition. The MIT Encyclopedia of the Cognitive Sciences MITECS is a landmark comprehensive reference work that represents the methodological and theoretical diversity of this changing field. At the core of the encyclopedia are 471 concise entries from Acquisition and Adaptationism to Wundt and X-bar Theory. Each article written by a leading researcher in the field provides an accessible introduction to an important concept in the cognitive sciences as well as references or further readings. Six extended essays which collectively serve as a roadmap to the articles provide overviews of each of six major areas of cognitive science: Philosophy, Psychology, Neurosciences, Computational Intelligence, Linguistics and Language, and Culture, Cognition and Evolution. For both students and researchers MITECS will be an indispensable guide to the current state of the cognitive sciences. **American Journal of Computational Linguistics**, 1980. Issues for 1974-78 include v. 11-15 of *The Finite String* previously published separately. *The Finite String* continues as an unnumbered section. 1980. **The University of Michigan Bulletin** University of Michigan, 2003. Each number is the catalogue of a specific school or college of the University. *Proceedings of the Workshop on Models of Complex Human Learning* David C. Wilkins, 1989. **The Cumulative Book Index**, 1991. A world list of books in the English language. Encyclopedia of Infant and Early Childhood Development Marshall M. Haith, Janette B. Benson, 2008-02-19. Infancy is a unique period in that at no other state is there greater growth and development. During this time growth is occurring at a physical level but equally impressive are the socio-emotional and cognitive developments during this time. Genetics, the womb environment, and the physical environment after birth all combine to impact the rate and manner of growth. Who we ultimately become as individuals begins here. Intended for university and public libraries, the *Encyclopedia of Infant and Early Childhood Development* is the major reference work that provides a comprehensive entry point into all of the existing literature on child development from the fields of psychology, genetics, neuroscience, and sociology. The scope of this work is to understand the developmental changes when they occur, why they occur, how they occur, and those factors that influence that development. Although some medical information is included, the emphasis is on normal growth and is primarily from a psychological perspective. Cutting edge content will encompass the period of time from neonates to age three. Award-winning Editors in Chief to ensure authoritative quality. Organized alphabetically by topic for ease of reference. Each article will include a glossary defining any unique terms. Suggested readings at the end of each

article provide a resource for additional information Extensively cross referenced within the work to enable reader access to full and relevant information related to their interests Online availability via ScienceDirect platform

Models of Language Acquisition Peter Broeder,Jaap Murre,2000 This book presents recent advances by leading researchers in computational modelling of language acquisition Sophisticated theoretical models can now be tested using simulation techniques and large corpora of linguistic data Renewed interest in learning neural networks and the ability to test new solutions to fundamental problems has fuelled debates in an already very active field The twenty four authors in this collection of new work have been drawn from departments of linguistics cognitive science psychology and computer science The book as a whole shows what light may be thrown on fundamental problems when powerful computational techniques are combined with real data A central question addressed in the book concerns the extent to which linguistic structure is readily available in the environment The authors consider the evidence in relation to word boundaries and phonotactic structure stress patterns text to speech rules and the mapping of lexical semantics one author arguing that a childs own output may serve as a key source of linguistic input Linguistic structure environment relations are central to the debate on the degree to which language learning is inductive or deductive this issue is considered here in studies of the acquisition of pluralization and inflectional morphology The book examines the power and utility of different modeling formalisms for different problems and approaches how far for example can connectionist models be used as models for language acquisition or Simple Recurrent Networks form the basis of a model of language acquisition To what degree can lexical items and categories be used in the construction of neural network models or Markov chains be deployed to investigate the characteristics of a general language learning algorithm Triggering Learning Algorithm This book will appeal to linguists psychologists cognitive scientists working in language acquisition It will also interest those involved in computational modelling in linguistics and behavioural science

Recent Advances in the Psychology of Language Robin N. Campbell,Philip T. Smith,1978

The Teachability of Language Mabel Rice,Richard L. Schiefelbusch,1989

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