

CONNECTIONISM AND SECOND LANGUAGE ACQUISITION

Yasuhiro Shirai

Language Acquisition And Connectionism

Rob Ellis, G.W. Humphreys



Language Acquisition And Connectionism:

Connectionism and Second Language Acquisition Yasuhiro Shirai, 2018-08-06 The latest title in the Cognitive Science and Second Language Acquisition Series presents a comprehensive review of connectionist research in second language acquisition SLA Second language researchers and the cognitive science community will find accessible discussions of the relevance of connectionist research to SLA This important volume is key reading for any student or researcher interested in how second language acquisition can be better understood from a connectionist perspective **Language**

Acquisition and Connectionism Kim Plunkett, 1998 What are the neural mechanisms underlying language acquisition and what characteristics of the linguistic input are critical to successful learning The articles in this volume show how connectionist models of language acquisition can illuminate these questions by exposing neural network architectures to structured linguistic input Examples from a wide variety of domains of language acquisition are covered including the development of early speech perception lexical and syllabic segmentation noun and adjective acquisition inflectional morphology the development of spelling sound correspondences and the acquisition of propositional knowledge The articles show how the mental representation of linguistic structure can emerge from the interaction of a structured environment with a linguistically naïve neural network The volume summarises and extends the growing body of work that shows that developmental psycholinguistics have hitherto underestimated the structural regularities that can be extracted from the linguistic input to the child using general learning mechanisms **Language Acquisition and Connectionism**, 1998

Philosophy and Connectionist Theory William Ramsey, David E. Rumelhart, Stephen P. Stich, 2013-06-17 The philosophy of cognitive science has recently become one of the most exciting and fastest growing domains of philosophical inquiry and analysis Until the early 1980s nearly all of the models developed treated cognitive processes like problem solving language comprehension memory and higher visual processing as rule governed symbol manipulation However this situation has changed dramatically over the last half dozen years In that period there has been an enormous shift of attention toward connectionist models of cognition that are inspired by the network like architecture of the brain Because of their unique architecture and style of processing connectionist systems are generally regarded as radically different from the more traditional symbol manipulation models This collection was designed to provide philosophers who have been working in the area of cognitive science with a forum for expressing their views on these recent developments Because the symbol manipulating paradigm has been so important to the work of contemporary philosophers many have watched the emergence of connectionism with considerable interest The contributors take very different stands toward connectionism but all agree that the potential exists for a radical shift in the way many philosophers think of various aspects of cognition Exploring this potential and other philosophical dimensions of connectionist research is the aim of this volume **Connectionist Models of Development** Philip T. Quinlan, 2003 Connectionist Models of Development is an edited collection of essays on the current

work concerning connectionist or neural network models of human development The brain comprises millions of nerve cells that share myriad connections and this book looks at how human development in these systems is typically characterised as adaptive changes to the strengths of these connections The traditional accounts of connectionist learning based on adaptive changes to weighted connections are explored alongside the dynamic accounts in which networks generate their own structures as learning proceeds Unlike most connectionist accounts of psychological processes which deal with the fully mature system this text brings to the fore a discussion of developmental processes To investigate human cognitive and perceptual development connectionist models of learning and representation are adopted alongside various aspects of language and knowledge acquisition There are sections on artificial intelligence and how computer programs have been designed to mimic the development processes as well as chapters which describe what is currently known about how real brains develop This book is a much needed addition to the existing literature on connectionist development as it includes up to date examples of research on current controversies in the field as well as new features such as genetic connectionism and biological theories of the brain It will be invaluable to academic researchers post graduates and undergraduates in developmental psychology and those researching connectionist neural networks as well as those in related fields such as psycholinguistics

Connectionism in Context Andy Clark, Rudi Lutz, 2012-12-06 Connectionism in Context aims to broaden and extend the debate concerning the significance of connectionist models The volume collects together a variety of perspectives by experimental and developmental psychologists philosophers and active AI researchers These contributions relate connectionist ideas to historical psychological debates e g over behaviourism and associationism to developmental and philosophical issues The result is a volume which addresses both familiar but central topics such as the relation between connectionism and classical AI and less familiar but highly challenging topics such as connectionism associationism and behaviourism the distinction between perception and cognition the role of environmental structure and the potential value of connectionism as a means of symbol grounding The nine essays have been written with an interdisciplinary audience in mind and avoid both technical jargon and heavy mathematics

[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 **Evolving Connectionist Systems** Nikola Kasabov, 2013-03-14 Many methods and models have been proposed for solving difficult problems such as prediction planning and knowledge discovery in application areas such as bioinformatics speech and image analysis Most however are designed to deal with static processes which will not change over time Some processes such as speech biological information and brain signals are not static however and in these cases different models need to be used which can trace and adapt to the changes in the processes in an incremental on line mode and often in real time This book presents generic computational models and techniques that can be used for the development of evolving adaptive modelling systems The models and techniques used are connectionist based as the evolving brain is a highly suitable paradigm and where possible existing connectionist models have been used and extended The first part of the book covers methods and techniques and the second focuses on applications in bioinformatics brain study speech image and multimodal systems It also includes an extensive bibliography and an extended glossary Evolving Connectionist Systems is aimed at anyone who is interested in developing adaptive models and systems to solve challenging real world problems in computing science or engineering It will also be of interest to researchers and students in life sciences who are interested in finding out how information science and intelligent information processing methods can be applied to their domains **Connectionist Psycholinguistics** Morten H.

Christiansen, Nick Chater, 2001-08-30 Setting forth the state of the art leading researchers present a survey on the fast developing field of Connectionist Psycholinguistics using connectionist or neural networks which are inspired by brain architecture to model empirical data on human language processing Connectionist psycholinguistics has already had a substantial impact on the study of a wide range of aspects of language processing ranging from inflectional morphology to word recognition to parsing and language production Christiansen and Chater begin with an extended tutorial overview of Connectionist Psycholinguistics which is followed by the latest research by leading figures in each area of research The book also focuses on the implications and prospects for connectionist models of language not just for psycholinguistics but also for computational and linguistic perspectives on natural language The interdisciplinary approach will be relevant for and accessible to psychologists cognitive scientists linguists philosophers and researchers in artificial intelligence

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

The Symbolic and Connectionist Paradigms John Dinsmore, 2014-01-14 The modern study of cognition finds itself with two widely endorsed but seemingly incongruous theoretical paradigms The first of these inspired by formal logic and the digital computer sees reasoning in the principled manipulation of structured symbolic representations The second inspired by the physiology of the brain sees reasoning as the behavior that emerges from the direct interactions found in large networks of simple processing components Each paradigm has its own accomplishments problems methodology proponents and agenda This book records the thoughts of researchers from both computer science and philosophy on resolving the debate between the symbolic and connectionist paradigms It addresses theoretical and methodological issues throughout but at the same time exhibits the current attempts of practicing cognitive scientists to solve real problems

Connectionist Psychology Rob Ellis, G.W. Humphreys, 2020-02-25 This textbook provides an introduction and review of connectionist models applied to psychological topics Chapters include basic reviews of connectionist models their properties and their attributes The application of these models to the domains of perception memory attention word processing higher language processing and cognitive neuropsychology is then reviewed

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

Epistemology and Cognition J.H. Fetzer, 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 interest from classical problems in the philosophy of mind and philosophical psychology through issues in cognitive psychology and sociobiology concerning the mental powers 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 present volume reflects the kind of insights that can be obtained when research workers in philosophy artificial intelligence and computer science explore problems of common concern. The issues here tend to fall into two broad but varied sets namely those concerned with content and concepts on the one hand and those concerned with semantics and epistemology on the other. The collection begins with a prologue that focuses upon the relations between connectionism and alternative conceptions of nativism and ends with an epilogue that examines the significance of alternative conceptions of the Frame Problem for artificial intelligence. Because these papers are rich and diverse they ought to appeal to a wide and heterogeneous audience. J H F

Research and Development in Intelligent Systems XXI Frans Coenen, Tony Allen, 2007-12-24 M A BRAMER University of Portsmouth UK This volume comprises the refereed technical papers presented at AI 2004 the Twenty fourth SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence held in Cambridge in December 2004. The conference was organised by SGAI the British Computer Society Specialist Group on Artificial Intelligence. The papers in this volume present new and innovative developments in the field divided into sections on AI Techniques I and II CBR and Recommender Systems Ontologies Intelligent Agents and Scheduling Systems Knowledge Discovery in Data and Spatial Reasoning and Image Recognition. This year's prize for the best refereed technical paper was won by a paper entitled Extracting Finite Structure from Infinite Language by T McQueen A A Hopgood T J Allen and J A Tepper School of Computing Informatics Nottingham Trent University UK. SGAI gratefully acknowledges the long term sponsorship of Hewlett Packard Laboratories Bristol for this prize which goes back to the 1980s. This is the twenty first volume in the Research and Development series. The Application Stream papers are published as a companion volume under the title Applications and Innovations in Intelligent Systems XII. On behalf of the conference organising committee I should like to thank all those who contributed to the organisation of this year's technical programme in particular the programme committee members the executive programme committee and our administrators Linsay Turbert and Collette Jackson.

Evolving Connectionist Systems Nikola K. Kasabov, 2007-08-23 This second edition of the must read work in the field presents generic computational models and techniques that can be used for the development of evolving adaptive modeling systems as well as new trends including computational neuro genetic modeling and quantum information processing related to evolving systems. New applications such as autonomous robots adaptive artificial life systems and adaptive decision support systems are also covered.

Connectionist Models of Behaviour and Cognition II Julien Mayor, Nicolas Ruh, Kim Plunkett, 2009 The neural computational approach to cognitive and psychological processes is

relatively new However Neural Computation and Psychology Workshops NCPW first held 16 years ago lie at the heart of this fast moving discipline thanks to its interdisciplinary nature bringing together researchers from different disciplines such as artificial intelligence cognitive science computer science neurobiology philosophy and psychology to discuss their work on models of cognitive processes Once again the Eleventh Neural Computation and Psychology Workshop NCPW11 held in 2008 at the University of Oxford England reflects the interdisciplinary nature and wide range of backgrounds of this field This volume is a collection of peer reviewed contributions of most of the papers presented at NCPW11 by researchers from four continents and 15 countries

The Relevance of Connectionism to Theories of Second Language Acquisition Cheryl Fantuzzi,1989

Connectionist Models of Neurocognition and Emergent Behavior Eddy J. Davelaar,2012 Introduction Eddy J Davelaar An ecology based approach to perceptual modelling E L Byrne D P A Corney and R B Lotto Early development of visual abilities Alessio Plebe A dynamical neural simulation of feature based attention and binding in a recurrent model of the ventral stream D G Harrison and M De Kamps Model selection for eye movements assessing the role of attentional cues in infant learning Daniel Yurovsky und weitere The importance of low spatial frequencies for categorization of emotional facial expressions L Lopez und weitere Modeling speech perception with restricted Boltzmann machines Michael Klein Louis ten Bosch and Lou Boves Early language as multimodal learning Nadja Althaus and Denis Mareschal From Motherese to one word and two word child language a multimodal temporal connectionist model Abel Nyamapfene Learning the visual word code T Hannagan and J Grainger What are the functional units in reading Evidence for statistical variation influencing word processing Alastair C Smith and Padraic Monaghan Testing computational accounts of response congruency in lexical decision Sebastian Loth and Colin J Davis Sentence comprehension as mental simulation an information theoretic analysis and a connectionist model Stefan L Frank Modelling free recall a combined activation buffer and distributed context model Anat Elhalal and Marius Usher Inference ontologies and the pump of thought Andrzej Wichert Modelling correlations in response inhibition Richard P Cooper and Eddy J Davelaar A first approach to an artificial networked cognitive control system based on the shared circuits model of sociocognitive capacities A Sanchez Boza and R Haber Guerra Digital typology modelling of cognitive abilities Agnes Garletti Using enriched semantic representations in predictions of human brain activity Joseph P Levy and John A Bullinaria Variability in the severity of developmental disorders a neurocomputational account of developmental regression in autism Michael SC Thomas Victoria CP Knowland and Annette Karmiloff Smith How do we use computational models of cognitive processes T Stafford Some issues in computational modelling Occam s razor and Hegel hair gel Richard Shillcock und weitere How is hair gel quantified Mark A Pitt and Jay I Myung What do humanoid robots offer to experimental psychology Jochen J Steil

Connectionism Steven Davis,1992-08-20 Part of a series on cognitive behaviour and science based on a 1990 conference sponsored by the Cognitive Science Program and the Linguistics Department of Simon Fraser University Vancouver British Columbia Canada

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