

C **S** Cognitive Models *OF* Speech Processing

THE SECOND SPERLONGA MEETING

Edited by
Gerry Altmann
Richard Shillcock

 Psychology Press
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Cognitive Models Of Speech Processing

Gerry T. M. Altmann



Cognitive Models Of Speech Processing:

Cognitive Models Of Speech Processing Gerry Altmann, Richard Shillcock, 2013-05-24 A comprehensive review for those interested in the range of theoretical concerns in speech and language processing [Cognitive Models of Speech Processing](#) Gerry T. M. Altmann, 1997 This collection of papers and abstracts stems from the third meeting in the series of Sperlonga workshops on Cognitive Models of Speech Processing It presents current research on the structure and organization of the mental lexicon and on the processes that access that lexicon The volume starts with discussion of issues in acquisition and consideration of questions such as What is the relationship between vocabulary growth and the acquisition of syntax and How does prosodic information concerning the melodies and rhythms of the language influence the processes of lexical and syntactic acquisition From acquisition the papers move on to consider the manner in which contemporary models of spoken word recognition and production can map onto neural models of the recognition and production processes The issue of exactly what is recognised and when is dealt with next the empirical findings suggest that the function of something to which a word refers is accessed with a different time course to the form of that something This has considerable implications for the nature and content of lexical representations Equally important are the findings from the studies of disordered lexical processing and two papers in this volume address the implications of these disorders for models of lexical representation and process borrowing from both empirical data and computational modelling The final paper explores whether neural networks can successfully model certain lexical phenomena that have elsewhere been assumed to require rule based processes **Cognitive Models of Speech Processing ...**, 1990 [Cognitive Models of Speech Processing](#) Gerry T. M. Altmann, 1995 **Cognitive Models of Speech Processing** Gerry Altmann, 2018-01-24 This collection of papers and abstracts stems from the third meeting in the series of Sperlonga workshops on Cognitive Models of Speech Processing It presents current research on the structure and organization of the mental lexicon and on the processes that access that lexicon The volume starts with discussion of issues in acquisition and consideration of questions such as What is the relationship between vocabulary growth and the acquisition of syntax and How does prosodic information concerning the melodies and rhythms of the language influence the processes of lexical and syntactic acquisition From acquisition the papers move on to consider the manner in which contemporary models of spoken word recognition and production can map onto neural models of the recognition and production processes The issue of exactly what is recognised and when is dealt with next the empirical findings suggest that the function of something to which a word refers is accessed with a different time course to the form of that something This has considerable implications for the nature and content of lexical representations Equally important are the findings from the studies of disordered lexical processing and two papers in this volume address the implications of these disorders for models of lexical representation and process borrowing from both empirical data and computational modelling The final paper explores whether neural networks can successfully model certain

lexical phenomena that have elsewhere been assumed to require rule based processes

Cognitive Models of Speech Processing Gerry Altmann, 1997

Localist Connectionist Approaches To Human Cognition Jonathan Grainger, Arthur M. Jacobs, Arthur Jacobs, 2013-06-17 This volume provides an overview of a relatively neglected branch of connectionism known as localist connectionism The singling out of localist connectionism is motivated by the fact that some critical modeling strategies have been more readily applied in the development and testing of localist as opposed to distributed connectionist models models using distributed hidden unit representations and trained with a particular learning algorithm typically back propagation One major theme emerging from this book is that localist connectionism currently provides an interesting means of evolving from verbal boxological models of human cognition to computer implemented algorithmic models The other central messages conveyed are that the highly delicate issue of model testing evaluation and selection must be taken seriously and that model builders of the localist connectionist family have already shown exemplary steps in this direction

The Psychology of Language Trevor A. Harley, 2013-12-16 This thorough revision and update of the popular second edition contains everything the student needs to know about the psychology of language how we understand produce and store language

The Cognitive and Neural Organisation of Speech Processing Patti Adank, Carolyn McGettigan, Sonja A E Kotz, 2016-03-18 Speech production and perception are two of the most complex actions humans perform The processing of speech is studied across various fields and using a wide variety of research approaches These fields include but are not limited to socio linguistics phonetics cognitive psychology neurophysiology and cognitive neuroscience Research approaches range from behavioural studies to neuroimaging techniques such as Magnetoencephalography electroencephalography MEG EEG and functional Magnetic Resonance Imaging fMRI as well as neurophysiological approaches such as the recording of Motor Evoked Potentials MEPs and Transcranial Magnetic Stimulation TMS Each of these approaches provides valuable information about specific aspects of speech processing Behavioural testing can inform about the nature of the cognitive processes involved in speech processing neuroimaging methods show where fMRI and MEG in the brain these processes take place and or elucidate on the time course of activation of these brain areas EEG and MEG while neurophysiological methods MEPs and TMS can assess critical involvement of brain regions in the cognitive process Yet what is currently unclear is how speech researchers can combine methods such that a convergent approach adds to theory model formulation above and beyond the contribution of individual component methods We expect that such combinations of approaches will significantly forward theoretical development in the field The present research topic comprise a collection of manuscripts discussing the cognitive and neural organisation of speech processing including speech production and perception at the level of individual speech sounds syllables words and sentences Our goal was to use findings from a variety of disciplines perspectives and approaches to gain a more complete picture of the organisation of speech processing The contributions are grouped around the following five main themes 1 Spoken language

comprehension under difficult listening conditions 2 Sub lexical processing 3 Sensorimotor processing of speech 4 Speech production The contributions used a variety of research approaches including behavioural experiments fMRI EEG MEG and TMS Twelve of the 14 contributions were on speech perception processing and the remaining two examined speech production This Research Topic thus displays a wide variety of topics and research methods and this comprehensive approach allows an integrative understanding of currently available evidence as well as the identification of concrete venues for future research

Perspectives on Sentence Processing Charles Clifton, Jr., Lyn Frazier, Keith Rayner, Charles Clifton, 2015-12-22 One of the liveliest forums for sharing psychological linguistic philosophical and computer science perspectives on psycholinguistics has been the annual meeting of the CUNY Sentence Processing Conference Documenting the state of the art in several important approaches to sentence processing this volume consists of selected papers that had been presented at the Sixth CUNY Conference The editors not only present the main themes that ran through the conference but also honor the breadth of the presentations from disciplines including linguistics experimental psychology and computer science The variety of sentence processing topics examined includes how evoked brain potentials reflect sentence comprehension how auditory words are processed how various sources of grammatical and nongrammatical information are coordinated and used how sentence processing and language acquisition might be related This distinctive volume not only presents the most exciting current work in sentence processing but also places this research into the broader context of theorizing about it

Speaker Perception and Recognition. An Integrative Framework for Computational Speech Processing Oxana Lapteva, 2011 Front cover Titelseite Impressum Acknowledgments Contents 1 Speech as a source of information 1 1 Allure of human speech 1 2 Information in speech 1 3 Speech complexity 1 4 Speech variability 2 Goal and theoretical orientation of the research 2 1 Interdisciplinary overview 2 2 Objectives and methods 2 3 Defining concepts 2 4 Areas of application 2 5 Hypotheses and expectations 2 6 Structure of the dissertation 3 Speaker recognition from Philosophy to Artificial Intelligence 3 1 Establishing the terrain 3 2 Personal identity complexity and multidimensionality 3 2 1 Concept of identity characteristics and criteria 3 2 2 Personal identity and language 3 2 3 Philosophical considerations 3 3 Perception representation and cognition 3 3 1 Symbolism and connectionism 3 3 2 Human brain and levels of perception 3 4 Concluding remarks 4 Speech and speaker specific information 4 1 Speech chain 4 1 1 Speech production 4 1 2 Speech transmission 4 1 3 Speech perception 4 1 4 Neural correlates in speech processing 4 2 Empirical studies of speaker perception 4 2 1 Infantile perception of speaker's identity 4 2 2 Socio psychological studies in speaker recognition and identification 4 3 Concluding remarks 5 Computational analysis of speech 5 1 Speech processing models 5 1 1 Modelling speech production 5 1 2 Modelling speech perception 5 2 Speech processing methods 5 2 1 Basic components 5 2 2 Classification of methods 5 2 3 Feature extraction methods 5 2 4 Model generation methods 5 2 5 Matching procedure and decision methods 5 3 Pattern recognition in speech and speaker processing 5 3 1 Overview 5 3 2 Statistical processing 5 3 3 The connectionist approach

The Ascent of Babel Gerry T. M. Altmann, 1998-09-03 Language is one of the faculties that sets humans apart from animals the crucial thing which makes our complex social interactions possible The Ascent of Babel explores the ways in which the mind produces and understands language the ways in which the sounds of language evoke meaning and the ways in which the desire to communicate causes us to produce those sounds to begin with The ascent symbolises different things the progression from sound to meaning the ascent that we each undergo from birth onwards as we learn our mother tongue and the quest to understand the mental processes which underlie our use of language Gerry Altmann leads the reader on this ascent a fascinating tour which takes us from babies learning to say words to the production of spoken and written language the effects of brain damage on language and the ways in which computer simulations of interconnecting nerve cells can learn language The Ascent of Babel is a journey of discovery written in an engaging and witty style at the end of which it becomes clear that Babel's summit the secret of language may actually lie at its foundations where babies play and language is learned

The effect of hearing loss on neural processing Jonathan E. Peelle, Arthur Wingfield, 2015-06-03 Efficient auditory processing requires the rapid integration of transient sensory inputs This is exemplified in human speech perception in which long stretches of a complex acoustic signal are typically processed accurately and essentially in real time Spoken language thus presents listeners auditory systems with a considerable challenge even when acoustic input is clear However auditory processing ability is frequently compromised due to congenital or acquired hearing loss or altered through background noise or assistive devices such as cochlear implants How does loss of sensory fidelity impact neural processing efficiency and health How does this ultimately influence behavior This Research Topic explores the neural consequences of hearing loss including basic processing carried out in the auditory periphery computations in subcortical nuclei and primary auditory cortex and higher level cognitive processes such as those involved in human speech perception By pulling together data from a variety of disciplines and perspectives we gain a more complete picture of the acute and chronic consequences of hearing loss for neural functioning

Natural Language Processing and Computational Linguistics Mohamed Zakaria Kurdi, 2016-08-17 Natural language processing NLP is a scientific discipline which is found at the interface of computer science artificial intelligence and cognitive psychology Providing an overview of international work in this interdisciplinary field this book gives the reader a panoramic view of both early and current research in NLP Carefully chosen multilingual examples present the state of the art of a mature field which is in a constant state of evolution In four chapters this book presents the fundamental concepts of phonetics and phonology and the two most important applications in the field of speech processing recognition and synthesis Also presented are the fundamental concepts of corpus linguistics and the basic concepts of morphology and its NLP applications such as stemming and part of speech tagging The fundamental notions and the most important syntactic theories are presented as well as the different approaches to syntactic parsing with reference to cognitive models algorithms and computer applications

The Neuroscience of Hallucinations Renaud Jardri, Arnaud

Cachia, Pierre Thomas, Delphine Pins, 2012-09-26 Hallucinatory phenomena have held the fascination of science since the dawn of medicine and the popular imagination from the beginning of recorded history Their study has become a critical aspect of our knowledge of the brain making significant strides in recent years with advances in neuroimaging and has established common ground among what normally are regarded as disparate fields The Neuroscience of Hallucinations synthesizes the most up to date findings on these intriguing auditory visual olfactory gustatory and somatosensory experiences from their molecular origins to their cognitive expression In recognition of the wide audience for this information among the neuroscientific medical and psychology communities its editors bring a mature evidence base to highly subjective experience This knowledge is presented in comprehensive detail as leading researchers across the disciplines ground readers in the basics offer current cognitive neurobiological and computational models of hallucinations analyze the latest neuroimaging technologies and discuss emerging interventions including neuromodulation therapies new antipsychotic drugs and integrative programs Among the topics covered Hallucinations in the healthy individual A pathophysiology of transdiagnostic hallucinations including computational and connectivity modeling Molecular mechanisms of hallucinogenic drugs Structural and functional variations in the hallucinatory brain in schizophrenia The neurodevelopment of hallucinations Innovations in brain stimulation techniques and imaging guided therapy Psychiatrists neurologists neuropsychologists cognitive neuroscientists clinical psychologists and pharmacologists will welcome The Neuroscience of Hallucinations as a vital guide to the current state and promising future of their shared field

Linguistics and Language Behavior Abstracts ,2008-02 [The Proceedings of the ... Annual Child Language Research Forum](#) ,1994 **The Cambridge Encyclopedia of Child Development** Brian Hopkins,Elena Geangu,Sally Linkenauger,2017-10-19 Updated and expanded to 124 entries The Cambridge Encyclopedia of Child Development remains the authoritative reference in the field [Speech Perception and Spoken Word Recognition](#) Gareth Gaskell,Jelena Mirković,2016-10-04 Speech Perception and Spoken Word Recognition features contributions from the field s leading scientists and covers recent developments and current issues in the study of cognitive and neural mechanisms that take patterns of air vibrations and turn them magically into meaning The volume makes a unique theoretical contribution in linking behavioural and cognitive neuroscience research and cutting across traditional strands of study such as adult and developmental processing The book Focusses on the state of the art in the study of speech perception and spoken word recognition Discusses the interplay between behavioural and cognitive neuroscience evidence and between adult and developmental research Evaluates key theories in the field and relates them to recent empirical advances including the relationship between speech perception and speech production meaning representation and real time activation and bilingual and monolingual spoken word recognition Examines emerging areas of study such as word learning and time course of memory consolidation and how the science of human speech perception can help computer speech recognition Overall this book presents a renewed focus on theoretical and developmental issues as

well as a multifaceted and broad review of the state of research in speech perception and spoken word recognition. Particularly interested readers will be researchers of psycholinguistics and adjoining fields as well as advanced undergraduate and postgraduate students. *Handbook of Psycholinguistics* Morton Ann Gernsbacher, 1994. The Handbook of Psycholinguistics in one volume provides a single source state of the art review of the many subdisciplines in this area. Written by the leading experts in the field each chapter provides both depth and breadth in covering dynamic research findings on the acquisition, perception and comprehension of language. Now in its third decade of existence the field has never before had a comprehensive reference source. The handbook discusses research theory and methodology while never compromising the unique integration of psychology and linguistics fundamental to this field.

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