Speech Perception and Spoken Word Recognition

Edited by GARETH GASKELL and JELENA MIRKOVIĆ

Spoken Word Recognition

François Grosjean

Spoken Word Recognition:

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   Spoken Word Recognition Lorraine Komisarjevsky Tyler,1987

Spoken Word Recognition Uli H. Frauenfelder,Lorraine Komisarjevsky Tyler,1987 Spoken Word Recognition covers the entire range of processes involved in recognizing spoken words both in and out of context It brings together a number of essays dealing with important theoretical questions raised by the study of spoken word recognition among them how do we understand fluent speech as efficiently and effortlessly as we do What are the mental processes and representations involved when we recognize spoken words How do these differ from those involved in reading written words What information is stored in our mental lexicon and how is it structured What do linguistic and computational theories tell us about these psychological processes and representations The multidisciplinary presentation of work by phoneticians linguists psychologists and computer scientists reflects the growing interest in spoken word recognition from a number of different perspectives It is a natural consequence of the mediating role that lexical representations and processes play in language understanding linking sound with meaning Following the editors introduction the contributions and their authors are Acoustic Phonetic Representation in Word Recognition David B Pisoni and Paul A Luce Phonological Parsing and Lexical Retrieval Kenneth W Church Parallel Processing in Spoken Word Recognition William D Marslen Wilson A Reader s View of Listening Dianne C Bradley and Kenneth I Forster Prosodic Structure and Spoken Word Recognition Francois Grosjean and James Paul Gee Structure in Auditory Word Recognition Lyn Frazier The Mental Representation of the Meaning of Words P N Johnson Laird Context Effects in Lexical Processing Michael K Tanenhaus and Margery M Lucas Uli H Frauenfelder is a

researcher with the Max Planck Institut f r Psycholinguistik and Lorraine Komisarjevsky Tyler is a professor in the Department of Experimental Psychology at the University of Cambridge Spoken Word Recognition is in a series that is derived from special issues of Cognition International Journal of Cognitive Science edited by Jacques Mehler A Bradford Book

Spoken Word Recognition Paradigms François Grosjean,1996   The Microstructure of Spoken Word Recognition James Stephen Magnuson,2001   The Role of Dynamic Cues in Speech Perception, Spoken Word Recognition, and Phonological Universals Natasha Lynn Warner,1998   A Survey of Options in Spoken Word Recognition Systems Using Dynamic Time Warping F. R. McInnes,University of Edinburgh. Centre for Speech Technology Research,1985   **A Neural Network Model for Spoken Word Recognition** Gary Neil Tajchman,1993   Native Listening Anne Cutler,2015-01-30 An argument that the way we listen to speech is shaped by our experience with our native language Understanding speech in our native tongue seems natural and effortless listening to speech in a nonnative language is a different experience In this book Anne Cutler argues that listening to speech is a process of native listening because so much of it is exquisitely tailored to the requirements of the native language Her cross linguistic study drawing on experimental work in languages that range from English and Dutch to Chinese and Japanese documents what is universal and what is language specific in the way we listen to spoken language Cutler describes the formidable range of mental tasks we carry out all at once with astonishing speed and accuracy when we listen These include evaluating probabilities arising from the structure of the native vocabulary tracking information to locate the boundaries between words paying attention to the way the words are pronounced and assessing not only the sounds of speech but prosodic information that spans sequences of sounds She describes infant speech perception the consequences of language specific specialization for listening to other languages the flexibility and adaptability of listening to our native languages and how language specificity and universality fit together in our language processing system Drawing on her four decades of work as a psycholinguist Cutler documents the recent growth in our knowledge about how spoken word recognition works and the role of language structure in this process Her book is a significant contribution to a vibrant and rapidly developing field   *The Influence of Semantic Representations on Spoken Word Recognition* Jonna L. Armbrüster,2005   **Electrophysiological Evidence for the Time Course of Spoken Word Recognition** Timothy B. O'Rourke,1993   **Spoken Word Recognition** Mark Gareth Gaskell,1994   The Role of Mismatching Information in Spoken Word Recognition Jens Bölte,1997-01-01 Dt Zusammenfassung   Spoken Word Recognition William Glenn,2000

Spoken Word Access Processes James M. McQueen,Anne Cutler,2001 This edited volume contains articles and short reports which examine Spoken Word Access Processes the mental processes which underlie our ability to recognise spoken words   **Spoken Word Recognition by Humans: A Single- Or a Multi-Layer Process** ,2008 This 7 month long project quantifies the role of brain rhythms in speech perception by measuring intelligibility of spoken sentences with judiciously manipulated changes in syllabic rhythm Speech was time compressed by a factor of three resulting in a signal with a syllabic

rate three times faster than the original and with poor intelligibility **Spoken Word Recognition** ,2014 **The Development of Context Effects in Spoken Word Recognition** Judith Claire Goodman,1989 *Speaker and Group Specificity in Spoken Word Recognition* Edward Thomas King,2021 Spoken words vary phonetically along a number of dimensions such as duration pitch and vowel quality Much of this variation is associated with social factors like the dialect age or gender of the speaker a type of variation termed socio indexical Traditional theories of speech perception have seen this socio indexical variation as a source of noise that listeners must filter out in order to match the noisy speech signal to abstract mental representations of words or phonemes But more recent theories propose that socially salient variation can actually make speech perception easier for listeners as long as the variation is congruent with their experience exemplar theory Goldinger 1996 Johnson 2006 because listeners maintain specific detailed memories of instances of language that they have experienced Exemplar models make fairly narrow predictions about the interactions between specific memories and socio indexical information specific memories are represented only at the surface phonetic level so they should not affect deeper linguistic systems like semantics and socio indexical group recognition is a byproduct of word recognition happening serially after words are recognized Recent evidence however raises significant questions about these predictions In this dissertation I argue that while socio indexical variation does facilitate word recognition this facilitation is more widespread than expected I begin by using several large collections of spoken conversations to determine which words are used more often by women and which more often by men I then use laboratory experiments to establish that listeners sensitivity to these group specific word frequencies interacts with both phonology and semantics beyond the predictions of exemplar theory suggesting the need for more complex spoken word recognition mechanisms **An Attractor Neural Network Model of Spoken Word Recognition** John L. C. Seybold,1992

Whispering the Strategies of Language: An Mental Quest through **Spoken Word Recognition**

In a digitally-driven world where monitors reign supreme and quick interaction drowns out the subtleties of language, the profound strategies and psychological nuances hidden within words often move unheard. Yet, set within the pages of **Spoken Word Recognition** a fascinating literary treasure sporting with fresh thoughts, lies an exceptional journey waiting to be undertaken. Written by a skilled wordsmith, that enchanting opus encourages visitors on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within the material of every word. Within the psychological depths of the emotional review, we shall embark upon a sincere exploration of the book is core styles, dissect its charming writing fashion, and yield to the effective resonance it evokes heavy within the recesses of readers hearts.

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Spoken Word Recognition Introduction

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