

# CONTEMPORARY ISSUES IN EXPERIMENTAL PHONETICS

edited by  
Norman J. Lass

PERSPECTIVES IN NEUROLINGUISTICS AND PSYCHOLINGUISTICS  
A series of monographs and Festschriften

# Contemporary Issues In Experimental Phonetics

**H. Pick**



## **Contemporary Issues In Experimental Phonetics:**

**Contemporary Issues in Experimental Phonetics** Norman Lass, 2012-12-02 Contemporary Issues in Experimental Phonetics provides comprehensive coverage of a number of research topics on experimental phonetics. This book is divided into four parts. Part I describes the instrumentation systems employed in the study of speech acoustics and speech physiology. The models, aerodynamic principles and peripheral physiological mechanisms of speech production are discussed in Part II. Part III explains the problems in the specifications of the acoustic characteristics of speech sounds and suprasegmental features of speech. The speech perception process, speaker recognition theories on the nature of the dichotic right ear advantage and errors in auditory perception are elaborated in the last chapter. This text likewise covers the measurement of temporal processing in speech perception and interrelationship of speech hearing and language in an understanding of the total human communication process. This publication is valuable to speech and hearing scientists, speech pathologists, audiologists, psychologists, linguists and graduate students researching on experimental phonetics. *Current Issues in the Phonetic Sciences* Harry Francis Hollien, Patricia Hollien, 1979-01-01 These papers from the IPS 77 Congress held in Miami Beach, Florida in 1977 present the state of the art in phonetic science. The volume is subdivided into twelve sections: History of Phonetics, Issues of Method and Theory in Phonetics, Laryngeal Function, Temporal Factors and Intonation, Physiological and Acoustic Phonetics, Speech Production, Neurophonetics and Psychopathology, Speech Perception, Speech and Speaker Recognition, Teaching Phonetics, Children's Speech and Language Acquisition and Special Issues in Phonetics.

**Instrumental Clinical Phonetics** Martin J. Ball, Chris Code, 2008-04-30 This book presents a collection of accounts by internationally renowned experts on current techniques in the instrumental investigation of speech and disorders of speech.

**Relevant Acoustic Phonetics of L2 English** Etienne Koffi, 2021-04-20 Intelligibility is the ultimate goal of human communication. However, measuring it objectively remained elusive until the 1940s when physicist Harvey Fletcher pioneered a psychoacoustic methodology for doing so. Another physicist, von Békésy, demonstrated clinically that Fletcher's theory of Critical Bands was anchored in anatomical and auditory reality. Fletcher's and Békésy's approach to intelligibility has revolutionized contemporary understanding of the processes involved in encoding and decoding speech signals. Their insights are applied in this book to account for the intelligibility of the pronunciation of 67 non-native speakers from the following language backgrounds: 10 Arabic, 10 Japanese, 10 Korean, 10 Mandarin, 11 Serbian and Croatian (the Slavic Group), 6 Somali and 10 Spanish speakers who read the Speech Accent Archive elicitation paragraph. Their pronunciation is analyzed instrumentally and compared and contrasted with that of 10 native speakers of General American English (GAE) who read the same paragraph. The data-driven intelligibility analyses proposed in this book help answer the following questions: Can L2 speakers of English whose native language lacks a segment, segments or a suprasegment, suprasegments manage to produce it/them intelligibly? If they cannot, what segments or suprasegments do they use to substitute for it/them? Do the compensatory

strategies used interfere with intelligibility The findings reported in this book are based on nearly 12 000 measured speech tokens produced by all the participants This includes some 2 000 vowels more than 500 stop consonants over 3 000 fricatives nearly 1 200 nasals about 1 500 approximants a over 1 200 syllables onsets as many as 800 syllable codas more than 1 600 measurement of F0 pitch and duration measurements of no fewer than 539 disyllabic words These measurements are in keeping with Baken and Orlikoff 2000 3 and in accordance with widely accepted Just Noticeable Difference thresholds and relative functional load calculations provided by Catford 1987

### **Psychology: From Research to Practice H.**

Pick, 2012-12-06 This book grew out of discussion at the meetings of the Board of Scientific Affairs of the American Psychological Association during the years 1972 through 1975 Members of the board felt that there was general misunderstanding by the public about the role of basic research in science The problem was thought to be particularly severe in the case of the behavioral sciences but it appeared to be a reflection of a more general anti intellectual attitude in the United States At the same time basic researchers had been admittedly underconcerned with the practical application of their results Yet many thoughtful scientists realize there is a very fruitful interplay between basic research and application The proposal was made to prepare a book of case studies that demonstrate the application of basic research in psychology The book was organized to sample applications from a range of topics in psychology The editorial board divided up responsibilities for these topics Herschel W Leibowitz focused on applications from experimental and engineering psychology and Jerome E Singer organized the section on applications to social problems Alfred Steinschneider took responsibility for the section on clinical applications of basic research in psychology and Harold W Stevenson organized the section on applications of basic research to developmental and educational problems

### Perception R. Held, H.W.

Leibowitz, H.L. Teubner, 2012-12-06 This volume was designed to focus on the problems of perception and originally was to have been solely edited by Professor Hans Lukas Teuber who was a member of the editorial board which initiated production of the Handbook Accordingly he issued invitations to a number of researchers in perception asking them to contribute chapters written in a style described in his words I hope that no author will feel constrained to undertake a major search of the literature he could do instead on an area in which he has been quite active himself and where most of the issues are immediately obvious to him In this way the writing of the chapter should be enjoyable rather than a chore it should result in a personal account of the state of a given area rather than in an encyclopedic treatise the field deserves this sort of summary especially particularly if it is pointed toward the future and speeds the convergence of developments in sensory physiology and psychological studies of perception With the growing burden of national and international commitments including departmental headship Professor Teuber felt that it would be wise to share the editorial responsibilities for this volume and accordingly asked Professors Richard Held and Herschel Leibowitz to co edit the volume with him in the same spirit as outlined in his invitation to authors They agreed to help in this task

### Speech and Language Norman J. Lass, 2014-06-28

Speech and Language Volume 6 Advances in Basic Research and Practice is a collection of papers that discusses pathology theories and clinical issues related to language and speech Some papers describe auditory discrimination and intervention techniques for articulatory defects assessment of auditory disorders phonological systems of deaf speakers as well as speech and language characteristics of aging persons Other papers discuss issues in language and cognitive assessment of black children distortions of the supralaryngeal vocal tract the structure of the human tongue transformation of the acoustic signal into speech and methods to estimate glottal volume velocity waveform properties One paper suggests guidelines that investigators should be aware of before giving any speech discriminating tests These guidelines include the following use of age appropriate tests use of culturally unbiased tests adaption of intrapersonal testing procedures and utilization of recorded stimulus presentation Another paper reviews auditory processing deficits associated with brain damage and the considerations applicable to the assessment of such disorders It also suggests treatment planning One paper concludes that the phonological structure of a fluent speech requires that the listener employ higher level sources of knowledge while making phonetic decisions Linguists speech pathologists psychologists speech therapists neurologists neuropsychologists and neurolinguists will find the collection highly relevant

**The Routledge Handbook of Phonetics** William F. Katz, Peter F. Assmann, 2019-03-15 The Routledge Handbook of Phonetics provides a comprehensive and up to date compilation of research history and techniques in phonetics With contributions from 41 prominent authors from North America Europe Australia and Japan and including over 130 figures to illustrate key points this handbook covers all the most important areas in the field including the history and scope of techniques used including speech synthesis vocal tract imaging techniques and obtaining information on under researched languages from language archives the physiological bases of speech and hearing including auditory articulatory and neural explanations of hearing speech and language processes theories and models of speech perception and production related to the processing of consonants vowels prosody tone and intonation linguistic phonetics with discussions of the phonetics phonology interface sound change second language acquisition sociophonetics and second language teaching research applications and extensions including phonetics and gender clinical phonetics and forensic phonetics The Routledge Handbook of Phonetics will be indispensable reading for students and practitioners in the fields of speech language linguistics and hearing sciences

**Principles of Experimental Phonetics** Norman J. Lass, 1996 A text for graduate students and professionals in speech language pathology audiology hearing sciences psychology the cognitive sciences and linguistics Sections on speech production the speech signal speech perception and research techniques cover topics such as models of speech production the acoustic characteristics of American English and instrumentation for the study of speech acoustics Features chapter outlines key terms summaries and review questions Includes bandw photos and a glossary Annotation copyright by Book News Inc Portland OR

**Deafness and Communication** Donald G. Sims, Gerard G. Walter, Robert L. Whitehead, 1982 This text provides an overview of the relevant literature and

practices in coping with the special problems faced by the deaf population      **Status Report on Speech Research** ,1986

**Experimental Phonetics** Katrina Hayward,2014-07-10 Traditionally investigations into speech and pronunciation have relied on the unaided skills of the phonetician in recognising and reproducing speech sounds But many practitioners are now using instruments to gain a greater understanding of speech and to be able to analyse speech patterns in situations when speaking and hearing would otherwise be inaccessible without the use of these instruments This new book looks at how this form of investigation has developed and considers the types of data that can be used and which questions can be solved using experimental phonetics      **International Journal of Neuroscience** ,1993      *Neuropsychology* Michael S.

Gazzaniga,1979-04-30 As the Handbook of Behavioral Neurobiology moves into a second volume it is appropriate to take into general account the scope and content of this series In its broadest sense behavioral neurobiology is the study of the behaviors of animal organisms with reference to their neurological bases The overall objective of this handbook series is to assemble in ten volumes a comprehensive and up to date treatment of the major areas that comprise behavioral neurobiology Within such a framework it is possible to provide the fundamental concepts methods and substantive advancements in these fields in a manner that will be useful to and that will also serve as a reference source for researchers educational programs who desire a well balanced overview of the component areas of neurobiology The intent in each volume has been to bring together a spectrum of approaches and disciplines that focuses upon the topic at hand The first volume presented and discussed the problems of sensory integration the present work is concerned with the neurobiology of cognitive processes and forthcoming volumes will include the topics of motor coordination learning and memory biological rhythms motivation sexual behavior social behavior and communication and the evolution of nervous systems and behavior Thus the purpose of the editors in planning this series has been to offer a distinct handbook employing the many varied and prevailing avenues of attack upon current problems in behavior and neurological processes that should prove of unique value and usefulness to professionals and students alike      *Psycholinguistics Series: Structures and processes, N.V. Smith et al* John Morton,John C.

Marshall,1977      Psycholinguistics: Structures and processes John Morton,John C. Marshall,1977      **Human Factors in Computing Systems** ,1999      □□□□□□ ,1978      *Selected Writings: Major works, 1976-1980* Roman Jakobson,1971      **CHI 99 Conference Proceedings** Marian G. Williams,1999

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