

# The Speech Chain The Physics And Biology Of Spoken Language

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speech is usually taken for granted and its fundamental importance is often overlooked communication by speech sets humans apart from other animals it facilitates our ability to think abstractly it allows us to coordinate our efforts with one another and it contributes significantly to the development of human societies spoken communication is an extremely intricate process a complex chain of events links speaker to listener a chain that involves not only physics and acoustics but

also anatomy physiology linguistics and psychology the speech chain explains simply and clearly the basic mechanisms involved in spoken communication from the speaker's production of words to the transmission of sound to the listener's perception of what has been said the speech chain has been well known as an easy to read introduction to the fundamentals of spoken communication the book has now been thoroughly revised and updated to give a state of the art description of each link in the speech chain included are new chapters on the digital processing of speech and on the use of computers for the generation of synthetic speech and for automatic speech recognition professionals teachers students and others interested in how we communicate with one another will find the speech chain a useful introduction to this uniquely human capability this interdisciplinary account is also accessible to persons with no previous knowledge of the fields involved

originally published in 1963 the speech chain has been regarded as the classic easy to read introduction to the fundamentals and complexities of speech communication it provides a foundation for understanding the essential aspects of linguistics acoustics and anatomy and explores research and development into digital processing of speech and the use of computers for the generation of artificial speech and speech recognition this interdisciplinary account will prove invaluable to students with little or no previous exposure to the study of language

this book presents a technology to help speech hearing and sight impaired people it explains how they will benefit from an enhancement in their ability to recognize and produce speech or to detect sounds in their surroundings additionally it is considered how sound based assistive technology might be applied to the areas of speech recognition speech synthesis environmental recognition virtual reality and robots the primary focus of this book is to provide an understanding of both the methodology and basic concepts of assistive technology rather than listing the variety of assistive devices developed this book presents a number of different topics which are sufficiently independent from one another that the reader may begin at any chapter without lacking background information much of the research quoted in this book was conducted in the author's laboratories at hokkaido university and university of tokyo this book offers the reader a better understanding of a number of unsolved problems that still persist in the field of sound based assistive technology

after decades of research activity chinese spoken language processing csdp has advanced considerably both in practical technology and theoretical discovery in this book the editors provide both an introduction to the field as well as unique research problems with their solutions in various areas of csdp the contributions represent pioneering efforts ranging from csdp principles to technologies and applications with each chapter encapsulating a single problem and its solutions a commemorative volume for the 10th anniversary of the international symposium on csdp in singapore this is a valuable reference for established researchers and an

excellent introduction for those interested in the area of csdp

many ai and machine learning tasks present in dual forms e g english to chinese translation vs chinese to english translation speech recognition vs speech synthesis question answering vs question generation and image classification vs image generation dual learning is a new learning framework that leverages the primal dual structure of ai tasks to obtain effective feedback or regularization signals in order to enhance the learning inference process since it was first introduced four years ago the concept has attracted considerable attention in multiple fields and been proven effective in numerous applications such as machine translation image to image translation speech synthesis and recognition visual question answering and generation image captioning and generation and code summarization and generation offering a systematic and comprehensive overview of dual learning this book enables interested researchers both established and newcomers and practitioners to gain a better understanding of the state of the art in the field it also provides suggestions for further reading and tools to help readers advance the area the book is divided into five parts the first part gives a brief introduction to machine learning and deep learning the second part introduces the algorithms based on the dual reconstruction principle using machine translation image translation speech processing and other nlp cv tasks as the demo applications it covers algorithms such as dual semi supervised learning dual unsupervised learning and multi agent dual learning in the context of image translation it introduces algorithms including cyclegan dualgan discogan cdgan and more recent techniques applications the third part presents various work based on the probability principle including dual supervised learning and dual inference based on the joint probability principle and dual semi supervised learning based on the marginal probability principle the fourth part reviews various theoretical studies on dual learning and discusses its connections to other learning paradigms the fifth part provides a summary and suggests future research directions

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

to assess the current state of linguistic activity in all fields and all countries

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