

SpeechSynthesis

James Loton Flanagan, Lawrence R. Rabiner

An Introduction to Text-to-Speech Synthesis Thierry Dutoit, 2013-12-01 This is the first book to treat two areas of speech synthesis: natural language processing and the inherent problems it presents for speech synthesis; and digital signal processing, with an emphasis on the concatenative approach. The text guides the reader through the material in a step-by-step easy-to-follow way. The book will be of interest to researchers and students in phonetics and speech communication, in both academia and industry.

Developments in Speech Synthesis Mark Tatham, Katherine Morton, 2005-04-15 With a growing need for understanding the process involved in producing and perceiving spoken language, this timely publication answers these questions in an accessible reference. Containing material resulting from many years' teaching and research, Speech Synthesis provides a complete account of the theory of speech. By bringing together the common goals and methods of speech synthesis into a single resource, the book will lead the way towards a comprehensive view of the process involved in human speech. The book includes applications in speech technology and speech synthesis. It is ideal for intermediate students of linguistics and phonetics who wish to proceed further, as well as researchers and engineers in telecommunications working in speech technology and speech synthesis who need a comprehensive overview of the field and who wish to gain an understanding of the objectives and achievements of the study of speech production and perception.

Speech Synthesis and Recognition Wendy Holmes, 2002-09-11 With the growing impact of information technology on daily life, speech is becoming increasingly important for providing a natural means of communication between humans and machines. This extensively reworked and updated new edition of Speech Synthesis and Recognition is an easy-to-read introduction to current speech technology. Aimed at advanced undergraduates and graduates in electronic engineering, computer science and information technology, the book is also relevant to professional engineers who need to understand enough about speech technology to be able to apply it successfully and to work effectively with speech experts. No advanced mathematical ability is required and no specialist prior knowledge of phonetics or of the properties of speech signals is assumed.

Text-to-Speech Synthesis Paul Taylor, 2009-02-19 Text-to-Speech Synthesis provides a complete, end-to-end account of the process of generating speech by computer. Giving an in-depth explanation of all aspects of current speech synthesis technology, it assumes no specialised prior knowledge. Introductory chapters on linguistics, phonetics, signal processing and speech signals lay the foundation, with subsequent material explaining how this knowledge is put to use in building practical systems that generate speech. Including coverage of the very latest techniques such as unit selection, hidden Markov model synthesis, and statistical text analysis, explanations of the more traditional techniques such as format synthesis and synthesis by rule are also provided. Weaving together the various strands of this multidisciplinary field, the book is designed for graduate students in electrical engineering, computer science, and linguistics. It is also an ideal reference for practitioners in the fields of human communication interaction and telephony.

Progress in Speech Synthesis Jan P.H. van Santen, Richard Sproat, Joseph Olive, Julia Hirschberg, 2013-06-29 For a machine to convert text into sounds that humans can understand as speech requires an enormous range of components, from abstract analysis of discourse structure to synthesis and modulation of the acoustic output. Work in the field is thus inherently interdisciplinary, involving linguistics, computer science, acoustics, and psychology. This collection of articles by leading researchers in each of the fields involved in text-to-speech synthesis provides a picture of recent work in laboratories throughout the world and of the problems and challenges that remain. By providing samples of synthesized speech as well as video demonstrations for several of the synthesizers discussed, the book will also allow the reader to judge what all the work adds up to -- that is, how good is the synthetic speech we can now produce? Topics covered include: Signal processing and source modeling Linguistic analysis Articulatory synthesis and visual speech Concatenative synthesis and automated segmentation Prosodic analysis of natural speech Synthesis of prosody Evaluation and perception Systems and applications.

Making Computers Talk Ian H. Witten, 1986

Data-Driven Techniques in Speech Synthesis R.I. Damper, 2012-12-06 This first review of a new field covers all areas of speech synthesis from text, ranging from text analysis to letter-to-sound conversion. At the leading edge of current research, the concise and accessible book is written by well respected experts in the field.

Fundamentals of Speech Synthesis and Speech Recognition E. Keller, 1994-10-20 The production of truly natural-sounding speech still poses considerable problems, and the reliable recognition of continuous speech is still open to major improvements. This text captures the essential elements of current research on artificial speech synthesis and recognition.

Articulatory Speech Synthesis from the Fluid Dynamics of the Vocal Apparatus Levinson, Stephen, Don Davis, Scott Slimon, Jun Huang, 2012-07-01 This book addresses the problem of articulatory speech synthesis based on computed vocal tract geometries and the basic physics of sound production in it. Unlike conventional methods based on analysis/synthesis using the well-known source filter model, which assumes the independence of the excitation and filter, we treat the entire vocal apparatus as one mechanical system that produces sound by means of fluid dynamics. The vocal apparatus is represented as a three-dimensional time-varying mechanism and the sound propagation inside it is due to the non-planar propagation of acoustic waves through a viscous, compressible fluid described by the Navier-Stokes equations. We propose a combined minimum energy and minimum jerk criterion to compute the dynamics of the vocal tract during articulation. Theoretical error bounds and experimental results show that this method obtains a close match to the phonetic target positions while avoiding abrupt changes in the articulatory trajectory. The vocal folds are set into aerodynamic oscillation by the flow of air from the lungs. The modulated air stream then excites the moving vocal tract. This method shows strong evidence for source-filter interaction. Based on our results, we propose that the articulatory speech production model has the potential to synthesize speech and provide a compact parameterization of the speech signal that can be useful in a wide variety of speech signal processing problems. Table of Contents: Introduction / Literature Review / Estimation of Dynamic Articulatory Parameters / Construction of Articulatory Model Based on MRI Data / Vocal Fold Excitation Models / Experimental Results of Articulatory Synthesis / Conclusion

Speech Synthesis and Recognition Systems E. J. Yannakoudakis, P. J. Hutton, 1987

Text to Speech Synthesis Shrikanth Narayanan, 2005 2011 Carol Award winner for Debut Author from ACFW (American Christian Fiction Writers) Jenny Lucas swore she'd never go home again. But being told you're dying has a way of changing things. Years after she left, she and her five-year-old daughter, Isabella, must return to her sleepy North Carolina town to face the ghosts she left behind. They welcome her in the form of her oxygen tank-toting

grandmother, her stoic and distant father, and David, Isabella's dad . . . Who doesn't yet know he has a daughter. As Jenny navigates the rough and unknown waters of her new reality, the unforgettable story that unfolds is a testament to the power of love and its ability to change everything-to heal old hurts, bring new beginnings . . . Even overcome the impossible. A stunning debut about love and loss from a talented new voice.

Chip Talk Dave Prochnow,1987

Improvements in Speech Synthesis E. Keller,G. Bailly,A. Monaghan,J. Terken,M. Huckvale,2001-11-28 Naturalness in synthetic speech is one of the most intractable problems in information technology today. Although speech synthesis systems have improved considerably over the last 20 years, they rarely sound entirely like human speakers. Why is this so, and what can be done about it? * Prosodic processing must be rendered more varied and more appropriate to the speech situation * Timing, melodic control and the relationships between the various prosodic parameters need increased attention * Signal processing systems must be developed and perfected that are capable of generating more than just one voice from a database * A better understanding must be achieved of what distinguishes one voice from another, and of how speech styles differ between simply reading aloud numbers and sentences and their use in interactive speech * New evaluation methodologies should be developed to provide objective and subjective measurements of the intelligibility of the synthetic speech and the cognitive load imposed upon the listener by impoverished stimuli * Adequate text markup systems must be proposed and tested with multiple languages in real-world situations * Further research is required to integrate speech synthesis systems into larger natural-language processing systems Improvements in Speech Synthesis presents the latest research in the above areas. Contributors include speech synthesis specialists from 16 countries, with experience in the development of systems for 12 European languages. This volume emerges from a four-year European COST project focussed on The Naturalness of Synthetic Speech, and will be a valuable text for everyone involved in speech synthesis.

Neural Text-to-Speech Synthesis Xu Tan,2023-05-29 Text-to-speech (TTS) aims to synthesize intelligible and natural speech based on the given text. It is a hot topic in language, speech, and machine learning research and has broad applications in industry. This book introduces neural network-based TTS in the era of deep learning, aiming to provide a good understanding of neural TTS, current research and applications, and the future research trend. This book first introduces the history of TTS technologies and overviews neural TTS, and provides preliminary knowledge on language and speech processing, neural networks and deep learning, and deep generative models. It then introduces neural TTS from the perspective of key components (text analyses, acoustic models, vocoders, and end-to-end models) and advanced topics (expressive and controllable, robust, model-efficient, and data-efficient TTS). It also points some future research directions and collects some resources related to TTS. This book is the first to introduce neural TTS in a comprehensive and easy-to-understand way and can serve both academic researchers and industry practitioners working on TTS.

Speech Synthesis Alistair D N Edwards,1991-01-28 Speech is probably the one most important feature which distinguishes humans from other animals. This book is concerned with giving the power of speech to machines, and thereby giving disabled people the power to communicate, which they would otherwise lack. Synthetic speech is used in two ways by disabled people: as a replacement for natural speech; and as a means of communicating complex information to people who cannot receive it by other means, such as blind computer users. This book covers both forms of use, showing the features they have in common, but separating the differences. It is accessible both to readers with a technical background, and also to those with less such experience, thanks to an ex

The Integration of Phonetic Knowledge in Speech Technology William J. Barry,Wim A. van Dommelen,2006-03-30 Continued progress in Speech Technology in the face of ever-increasing demands on the performance levels of applications is a challenge to the whole speech and language science community. Robust recognition and understanding of spontaneous speech in varied environments, good comprehensibility and naturalness of expressive speech synthesis are goals that cannot be achieved without a change of paradigm. This book argues for interdisciplinary communication and cooperation in problem-solving in general, and discusses the interaction between speech and language engineering and phonetics in particular. With a number of reports on innovative speech technology research as well as more theoretical discussions, it addresses the practical, scientific and sometimes the philosophical problems that stand in the way of cross-disciplinary collaboration and illuminates some of the many possible ways forward. Audience: Researchers and professionals in speech technology and computational linguists.

Speech Synthesis James Loton Flanagan,Lawrence R. Rabiner,1973

Source Modeling Techniques for Quality Enhancement in Statistical Parametric Speech Synthesis K. Sreenivasa Rao,N. P. Narendra,2018-12-13 This book presents a statistical parametric speech synthesis (SPSS) framework for developing a speech synthesis system where the desired speech is generated from the parameters of vocal tract and excitation source. Throughout the book, the authors discuss novel source modeling techniques to enhance the naturalness and overall intelligibility of the SPSS system. This book provides several important methods and models for generating the excitation source parameters for enhancing the overall quality of synthesized speech. The contents of the book are useful for both researchers and system developers. For researchers, the book is useful for knowing the current state-of-the-art excitation source models for SPSS and further refining the source models to incorporate the realistic semantics present in the text. For system developers, the book is useful to integrate the sophisticated excitation source models mentioned to the latest models of mobile/smart phones.

Introduction to Electronic Speech Synthesis Neil Sclater,1983

Expression in Speech Mark Tatham,Katherine Morton,2004 Human beings communicate expressively with each other in conversation : now in the computer age there is a perceived need for machines to communicate expressively with humans in dialogue. This title presents research examining expressive content in speech with a view to simulating expression in computer speech--Résumé de l'éditeur.

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Table of Contents SpeechSynthesis

1. Understanding the eBook SpeechSynthesis
 - The Rise of Digital Reading SpeechSynthesis
 - Advantages of eBooks Over Traditional Books
2. Identifying SpeechSynthesis
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an SpeechSynthesis
 - User-Friendly Interface
4. Exploring eBook Recommendations from SpeechSynthesis
 - Personalized Recommendations
 - SpeechSynthesis User Reviews and Ratings
 - SpeechSynthesis and Bestseller Lists
5. Accessing SpeechSynthesis Free and Paid eBooks
 - SpeechSynthesis Public Domain eBooks
 - SpeechSynthesis eBook Subscription Services
 - SpeechSynthesis Budget-Friendly Options
6. Navigating SpeechSynthesis eBook Formats
 - ePub, PDF, MOBI, and More
 - SpeechSynthesis Compatibility with Devices
 - SpeechSynthesis Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of SpeechSynthesis
 - Highlighting and Note-Taking SpeechSynthesis
 - Interactive Elements SpeechSynthesis
8. Staying Engaged with SpeechSynthesis
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers SpeechSynthesis
9. Balancing eBooks and Physical Books SpeechSynthesis
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection SpeechSynthesis
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine SpeechSynthesis
 - Setting Reading Goals SpeechSynthesis
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of SpeechSynthesis
 - Fact-Checking eBook Content of SpeechSynthesis
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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