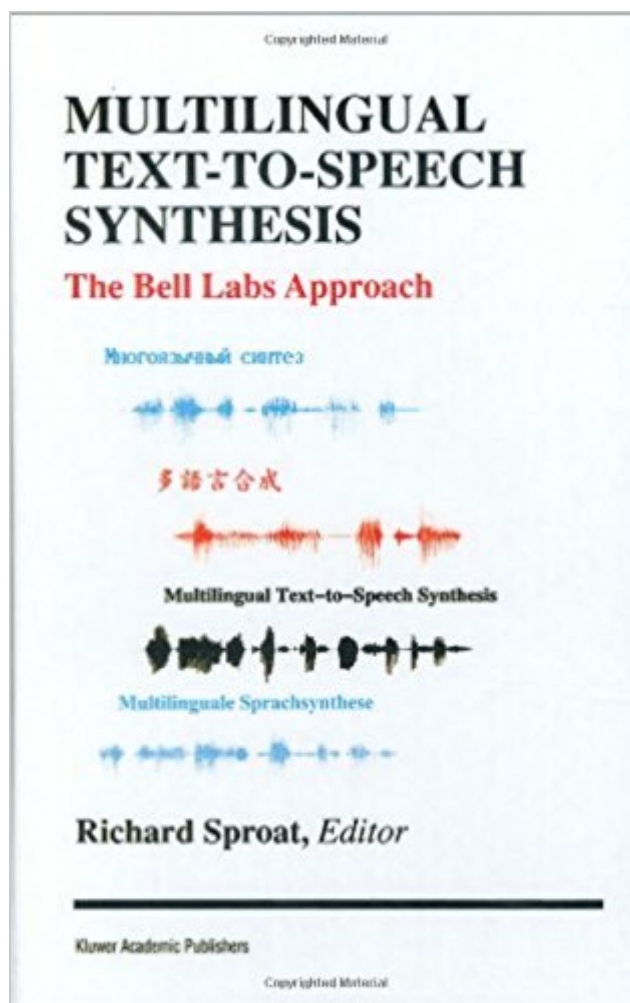


The book was found

# Multilingual Text-to-Speech Synthesis: The Bell Labs Approach



## Synopsis

Multilingual Text-to-Speech Synthesis: The Bell Labs Approach is the first monograph-length description of the Bell Labs work on multilingual text-to-speech synthesis. Every important aspect of the system is described, including text analysis, segmental timing, intonation and synthesis. There is also a discussion of evaluation methodologies, as well as a chapter outlining some future areas of research. While the book focuses on the Bell Labs approach to the various problems of converting from text into speech, other approaches are discussed and compared. Thus, this book serves both the function of providing a single reference to an important strand of research in multilingual synthesis, while at the same time providing a source of information on current trends in the field. Chapters in this work were contributed by Richard Sproat, Jan van Santen, Bernd Möllibus, Chin Shih, Joseph Olive, Evelyne Tzoukermann, all of Bell Labs, and Kazuaki Maeda of the University of Pennsylvania.

## Book Information

Hardcover: 300 pages

Publisher: Springer; 1997 edition (October 31, 1997)

Language: English

ISBN-10: 0792380274

ISBN-13: 978-0792380276

Product Dimensions: 6.1 x 0.8 x 9.2 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (2 customer reviews)

Best Sellers Rank: #3,265,696 in Books (See Top 100 in Books) #77 in [Books > Computers & Technology > Software > Voice Recognition](#) #238 in [Books > Computers & Technology > Computer Science > AI & Machine Learning > Natural Language Processing](#) #1087 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Acoustics](#)

## Customer Reviews

This work is an excellent overview of the Bell Labs approach to Text-to-Speech synthesis covering many languages. Certain to be a long-term influential work, as it clearly discusses each aspect of the multilingual system and the weighted finite state transduction (WFST) methods that make up the coherent approach. Topics include text analysis, prosodic modeling, WFSTs, system architecture, and acoustic realization issues.

This is an excellent survey of the AT&T/Bell Labs TTS methods, particularly the WFST techniques. I am surprised, however, that little discussion is devoted to \*stochastic\* methods. For example, the sentence, "The deer was rotting on Ridgedale Dr.", might have the "Dr." expanded to "Doctor" and not "Drive" by the application of a trigram language model trained on a text corpus rather than the "ad hoc" application of hand-crafted rules (whether implemented as WFST's or not).

[Download to continue reading...](#)

Multilingual Text-to-Speech Synthesis: The Bell Labs Approach Speech Therapy for Kids :  
Techniques and Parents Guide for Speech Therapy (speech therapy, speech therapy materials) 50  
Weeks of STEM Labs (50 STEM Labs) (Volume 6) Handbook of Biblical Hebrew: An Inductive  
Approach Based on the Hebrew Text of Esther (An Inductive Approach Based on the Hebrew Text  
of Esther, 2 Vols. in 1) Speech and Audio Signal Processing: Processing and Perception of Speech  
and Music Statistical Methods for Speech Recognition (Language, Speech, and Communication)  
Father of the Bride Speech (The 7-STEP GUIDE to Writing a Sensational Wedding Speech & Toast  
Book 1) Speech After Stroke: A Manual for the Speech Pathologist and the Family Member Texting  
Women: 7 Simple Steps From Text to Sex (Flirty Texts, Texting Girls, How To Text Girls, Art  
Seduction, How to Seduce a Woman, Funny Text, Pick Up Women, Funny Pick Up Lines, Picking  
Up Women) Computer Speech: Recognition, Compression, Synthesis (Springer Series in  
Information Sciences) Speech Processing and Synthesis Toolboxes Chip Talk: Projects in Speech  
Synthesis SDN and OpenFlow for beginners with hands on labs 50 Stem Labs - Science  
Experiments for Kids (Volume 1) STEM Labs for Middle Grades, Grades 5 - 8 Principles and Labs  
for Fitness and Wellness Nursing School Study Pack (Drug Reference, Labs, Mnemonics, EKG) 4  
books for nursing students Principles and Labs for Physical Fitness Geology From Experience:  
Hands-On Labs and Problems in Physical Geology Laboratory Manual: Activities, Experiments,  
Demonstrations & Tech Labs for Conceptual Physics

[Dmca](#)