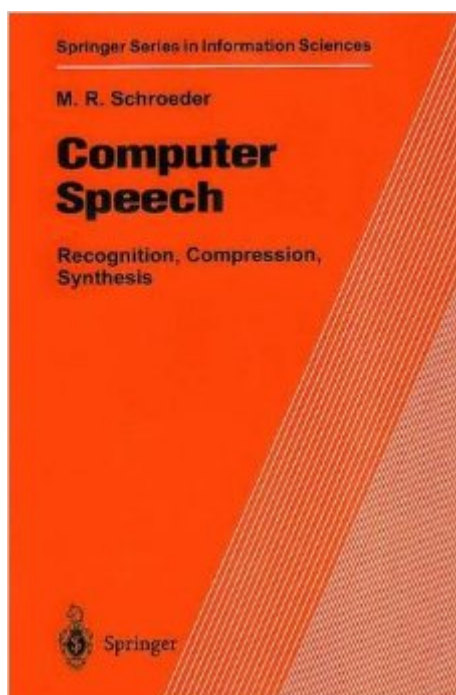# Computer Speech: Recognition, Compression, Synthesis (Springer Series In Information Sciences)

Synopsis

Computer Speech is an introduction to multimedia speech applications and is suitable for nonspecialists. It treats such contemporary subjects as automatic speech recognition and speaker verification for banking by computer and privileged (medical, military, diplomatic) information and control access. The book also focusses on speech and audio compression for mobile communication and the Internet. The importance of subjective quality criteria is stressed. A brief history of speech research summarizes the development from the first talking machines in rococo Europe to modern x-ray methods of articulatory analysis. The book also contains introductions to human monaural and binaural hearing, and the basic concepts of signal analysis.

Book Information

Series: Springer Series in Information Sciences (Book 35)

Hardcover: 313 pages

Publisher: Springer (July 1, 1999)

Language: English

ISBN-10: 3540643974

ISBN-13: 978-3540643975

Product Dimensions: 9.5 x 6.4 x 1 inches

Shipping Weight: 1.4 pounds

Average Customer Review: 5.0 out of 5 stars See all reviews (1 customer review)

Best Sellers Rank: #3,902,637 in Books (See Top 100 in Books)   #96 in Books > Computers & Technology > Software > Voice Recognition   #298 in Books > Computers & Technology > Computer Science > AI & Machine Learning > Natural Language Processing   #1773 in Books > Science & Math > Physics > Acoustics & Sound

Customer Reviews

Dr. Schroeder is one of the grand old men of speech technology. He started work at Bell Labs in '54, and by the mid '60s knew more about speech than most researchers around 2000. And he's a polymath, a generalist. And he's funny.Here he presents for you everything that he knows about speech. A graduate-level textbook spiced up by biographical asides, this covers a wide ranging grab-bag of material. It is most useful as an overview to the biological-based mathematics of the vocal tract, although much more is included. Written for practising engineers already in the field, the professor assumes easy familiarity with frequency equations, cepstrums, eigenvalues, etc. and moves forward from there. It's like getting a lecture from Einstein, a bit chewy and wide-ranging. It is

good for filling in some of the finer details of how things work, and to get a feel for the history of the field.Written in 1999, leaves out recent advances of course.This book is a useful complement to the other grand old men, Rabiner & Schafer's Digital Speech Processing, which should probably be read first.

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