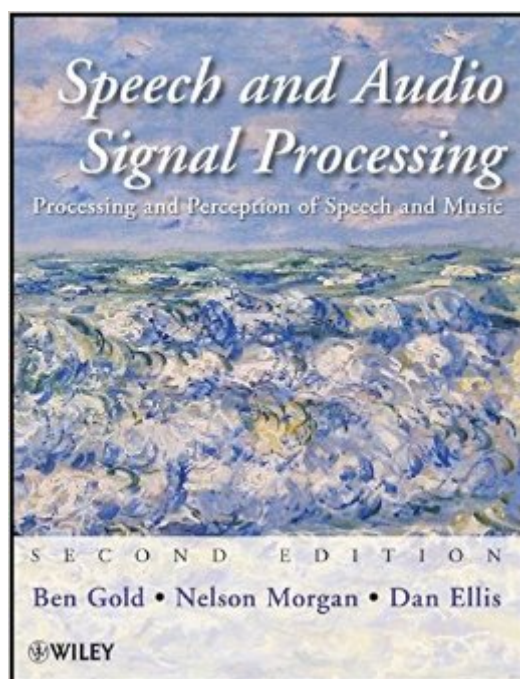


The book was found

Speech And Audio Signal Processing: Processing And Perception Of Speech And Music



Synopsis

When *Speech and Audio Signal Processing* published in 1999, it stood out from its competition in its breadth of coverage and its accessible, intuition-based style. This book was aimed at individual students and engineers excited about the broad span of audio processing and curious to understand the available techniques. Since then, with the advent of the iPod in 2001, the field of digital audio and music has exploded, leading to a much greater interest in the technical aspects of audio processing. This Second Edition will update and revise the original book to augment it with new material describing both the enabling technologies of digital music distribution (most significantly the MP3) and a range of exciting new research areas in automatic music content processing (such as automatic transcription, music similarity, etc.) that have emerged in the past five years, driven by the digital music revolution. New chapter topics include: Psychoacoustic Audio Coding, describing MP3 and related audio coding schemes based on psychoacoustic masking of quantization noise; Music Transcription, including automatically deriving notes, beats, and chords from music signals; Music Information Retrieval, primarily focusing on audio-based genre classification, artist/style identification, and similarity estimation; Audio Source Separation, including multi-microphone beamforming, blind source separation, and the perception-inspired techniques usually referred to as Computational Auditory Scene Analysis (CASA).

Book Information

Hardcover: 688 pages

Publisher: Wiley-Interscience; 2 edition (August 23, 2011)

Language: English

ISBN-10: 0470195363

ISBN-13: 978-0470195369

Product Dimensions: 7.7 x 1.6 x 9.5 inches

Shipping Weight: 3 pounds (View shipping rates and policies)

Average Customer Review: 3.5 out of 5 stars See all reviews (2 customer reviews)

Best Sellers Rank: #1,541,645 in Books (See Top 100 in Books) #46 in Books > Computers &

Technology > Software > Voice Recognition #344 in Books > Computers & Technology >

Graphics & Design > Computer Modelling > Remote Sensing & GIS #345 in Books > Science &

Math > Earth Sciences > Geography > Information Systems

Customer Reviews

This is the view of speech and audio signal processing from 10000 feet. There really aren't enough

details here to learn any new mathematical techniques. Don't pay these high prices for this book, it really is not worth it. Get a good book on signal processing and then I'd pick the book on Speech and Language processing by Jurafsky. This combo is more expensive than this book, but at least you will know enough to design something when you are finished reading them. Just my two cents.

In teaching grad-school guest lectures, I've found that the chapters in this book serve as good reading assignments for students to do before the lecture, particularly Dan Ellis's music chapters. Unlike many textbooks, you can assign a random chapter to read without worrying that the students will be lost if they hadn't already read the rest of the book.

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

Speech and Audio Signal Processing: Processing and Perception of Speech and Music
Speech Therapy for Kids : Techniques and Parents Guide for Speech Therapy (speech therapy, speech therapy materials)
Physical Audio Signal Processing: for Virtual Musical Instruments and Digital Audio Effects
Designing Audio Effect Plug-Ins in C++: With Digital Audio Signal Processing Theory
Bayesian Signal Processing: Classical, Modern and Particle Filtering Methods (Adaptive and Cognitive Dynamic Systems: Signal Processing, Learning, Communications and Control)
Signal Processing Algorithms in Fortran and C (Prentice-Hall Signal Processing Series)
Multidimensional Digital Signal Processing (Prentice-Hall Signal Processing Series)
Digital Signal Processing with Examples in MATLAB[®], Second Edition (Electrical Engineering & Applied Signal Processing Series)
Discrete-Time Signal Processing (3rd Edition) (Prentice-Hall Signal Processing Series)
Digital Signal Processing: with Selected Topics: Adaptive Systems, Time-Frequency Analysis, Sparse Signal Processing
Handbook of Neural Networks for Speech Processing (Artech House Signal Processing Library)
Discrete-Time Speech Signal Processing: Principles and Practice
Computer Speech Technology (Artech House Signal Processing Library)
Applications of Digital Signal Processing to Audio and Acoustics (The Springer International Series in Engineering and Computer Science)
Biosignal and Medical Image Processing (Signal Processing and Communications)
Human Perception of Objects: Early Visual Processing of Spatial Form Defined by Luminance, Color, Texture, Motion, and Binocular Disparity
Statistical Methods for Speech Recognition (Language, Speech, and Communication)
Speech After Stroke: A Manual for the Speech Pathologist and the Family Member
Father of the Bride Speech (The 7-STEP GUIDE to Writing a Sensational Wedding Speech & Toast Book 1)
Communication Acoustics: An Introduction to Speech, Audio and Psychoacoustics

[Dmca](#)