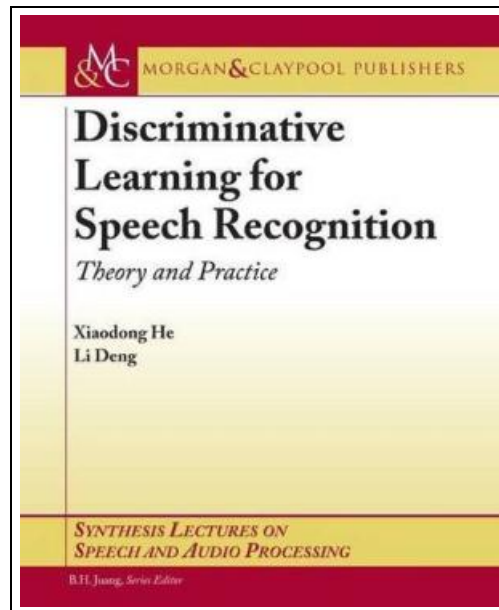# Discriminative Learning for Speech Recognition: Theory and Practice

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Reviews

I actually started out looking at this publication. it was actually writtern really perfectly and useful. Its been written in an extremely simple way and it is only soon after i finished reading through this pdf by which really modified me, change the way i really believe.
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DISCRIMINATIVE LEARNING FOR SPEECH RECOGNITION: THEORY AND PRACTICE

To get **Discriminative Learning for Speech Recognition: Theory and Practice** eBook, please access the web link under and download the ebook or have accessibility to additional information which might be related to DISCRIMINATIVE LEARNING FOR SPEECH RECOGNITION: THEORY AND PRACTICE ebook.

Morgan and Claypool Publishers. Paperback. Condition: New. 112 pages. Dimensions: 9.1in. x 7.4in. x 0.4in.In this book, we introduce the background and mainstream methods of probabilistic modeling and discriminative parameter optimization for speech recognition. The specific models treated in depth include the widely used exponential-family distributions and the hidden Markov model. A detailed study is presented on unifying the common objective functions for discriminative learning in speech recognition, namely maximum mutual information (MMI), minimum classification error, and minimum phoneword error. The unification is presented, with rigorous mathematical analysis, in a common rational-function form. This common form enables the use of the growth transformation (or extended BaumWelch) optimization framework in discriminative learning of model parameters. In addition to all the necessary introduction of the background and tutorial material on the subject, we also included technical details on the derivation of the parameter optimization formulas for exponential-family distributions, discrete hidden Markov models (HMMs), and continuous-density HMMs in discriminative learning. Selected experimental results obtained by the authors in firsthand are presented to show that discriminative learning can lead to superior speech recognition performance over conventional parameter learning. Details on major algorithmic implementation issues with practical significance are provided to enable the practitioners to directly reproduce the theory in the earlier part of the book into engineering practice. Table of Contents: Introduction and Background Statistical Speech Recognition: A Tutorial Discriminative Learning: A Unified Objective Function Discriminative Learning Algorithm for Exponential-Family Distributions Discriminative Learning Algorithm for Hidden Markov Model Practical Implementation of Discriminative Learning Selected Experimental Results Epilogue Major Symbols Used in the Book and Their Descriptions Mathematical Notation Bibliography This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.

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