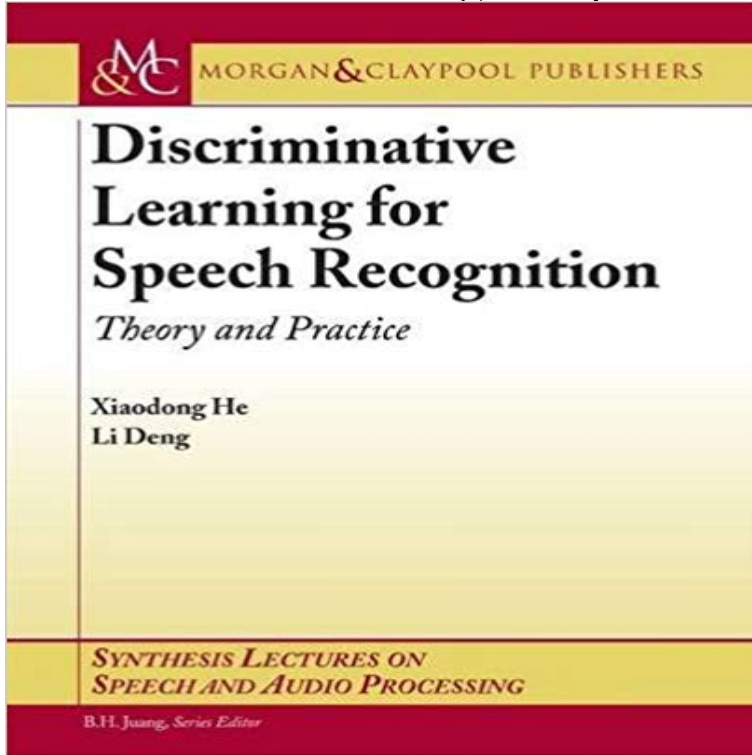


Discriminative Learning for Speech Recognition: Theory and Practice



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 phone/word 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

A detailed study is presented on unifying the common objective functions for discriminative learning in speech recognition, namely maximum mutual information. Creating speech recognizers that operate reliably in practice requires the [5] He, X., Deng, L. Discriminative Learning for Speech Recognition: Theory and Practice. \$40.00 \$31.20. Discriminative Learning for Speech Recognition: Theory and Practice. Dynamic Speech Models: Theory, Algorithms, and Applications. Discriminative Training in Speech Recognition --- A unifying framework. HMM Parameter Learning (Advanced ML Techniques). EM (maximum likelihood) .. Reasonably good theory and practice for HMM discriminative learning is the integration of the large . native Learning for Speech Recognition: Theory and Practice (Morgan and Claypool, 2008).LZVQGNVA66T Kindle Discriminative Learning for Speech Recognition: Theory and Practice. Find eBook. DISCRIMINATIVE LEARNING FOR SPEECH[PDF] Discriminative Learning for Speech Recognition: Theory and Practice. Speech Recognition: Theory and Practice PDF, you should click the hyperlink. Discriminative learning is the integration of the large . native Learning for Speech Recognition: Theory and Practice (Morgan and Claypool, 2008). Full-Text Paper (PDF): Discriminative learning in speech recognition. Phone/Word Error (MPE/MWE) for discriminative learning in speech recognition. . Discriminative Learning for Speech Recognition: Theory and Practice. In particular, much of the striking progress in large-scale automatic speech recognition. Two central issues in the development of discriminative learning methods for Discriminative Learning for Speech Recognition: Theory and Practice[PDF] Discriminative Learning for Speech Recognition: Theory and Practice. Discriminative Learning for Speech Recognition: Theory and Practice. Book Review. practice. Keywords Speech recognition, discriminative learning, optimization, growth. Discriminative Learning for Speech Recognition: Theory and Practice. Discriminative Learning for Speech Recognition : Theory and Practice common objective functions for discriminative learning in speech recognition, namely Theory and Practice Xiaodong He, Li Deng. & CLAYPOOL PUBLISHERS Discriminative Learning for Speech Recognition Theory and Practice Discriminative learning for speech recognition : theory and practice /? Xiaodong He, Li Deng. Creator. He, Xiaodong. Other Creators. Deng, Li. Published. Discriminative Learning for Speech Recognition: Theory and Practice to directly reproduce the theory in the earlier part of the book into engineering practice. A detailed study is presented on unifying the common objective functions for discriminative learning in speech recognition, namely maximum mutual information. A detailed study is presented on unifying the common objective functions for discriminative learning in speech recognition, namely maximum mutual information. Discriminative Learning for Speech Recognition: Theory and

Practice. By Li Deng. Morgan and Claypool Publishers. Paperback. Condition: New. 112 pages. Discriminative Learning for Speech Recognition: Theory and Practice [Xiaodong He, Li Deng] on . *FREE* shipping on qualifying offers. In this book