

Statistical Methods For Speech Recognition

Robust Automatic Speech Recognition Robustness in Automatic Speech Recognition Deep Learning for NLP and Speech Recognition Automatic Speech and Speaker Recognition Speech Recognition Advances in Speech Recognition Trends in Speech Recognition New Era for Robust Speech Recognition Techniques for Noise Robustness in Automatic Speech Recognition Statistical Methods for Speech Recognition Automatic Speech Recognition Toward a model for speech recognition Speech and Audio Processing for Coding, Enhancement and Recognition Automatic Speech Recognition Springer Handbook of Speech Processing Speech Technology at Work Distant Speech Recognition Connectionist Speech Recognition Discriminative Learning for Speech Recognition Speech Recognition and Understanding Jinyu Li Jean-Claude Junqua Uday Kamath Chin-Hui Lee Peter Foster Amy Neustein Wayne A. Lea Shinji Watanabe Tuomas Virtanen Frederick Jelinek Kai-Fu Lee Kenneth N. Stevens Tokunbo Ogunfunmi Dong Yu Jacob Benesty Jack Hollingum Matthias Woelfel Hervé A. Bourlard Xiadong He Pietro Laface Robust Automatic Speech Recognition Robustness in Automatic Speech Recognition Deep Learning for NLP and Speech Recognition Automatic Speech and Speaker Recognition Speech Recognition Advances in Speech Recognition Trends in Speech Recognition New Era for Robust Speech Recognition Techniques for Noise Robustness in Automatic Speech Recognition Statistical Methods for Speech Recognition Automatic Speech Recognition Toward a model for speech recognition Speech and Audio Processing for Coding, Enhancement and Recognition Automatic Speech Recognition Springer Handbook of Speech Processing Speech Technology at Work Distant Speech Recognition Connectionist Speech Recognition Discriminative Learning for Speech Recognition Speech Recognition and Understanding Jinyu Li Jean-Claude Junqua Uday Kamath Chin-Hui Lee Peter Foster Amy Neustein Wayne A. Lea Shinji Watanabe Tuomas Virtanen Frederick Jelinek Kai-Fu Lee Kenneth N. Stevens Tokunbo Ogunfunmi Dong Yu Jacob Benesty Jack Hollingum Matthias Woelfel Hervé A. Bourlard Xiadong He Pietro Laface

robust automatic speech recognition a bridge to practical applications establishes a solid foundation for automatic speech recognition that is robust against acoustic environmental distortion it provides a thorough overview of classical and modern noise and reverberation robust techniques that have been developed over the past thirty years with an emphasis on practical methods that have been proven to be successful and which are likely to be further developed for future applications the strengths and weaknesses of robustness enhancing speech recognition techniques are carefully analyzed the book covers noise robust techniques designed for acoustic models which are based on both gaussian mixture models and deep neural networks in addition a guide to selecting the best methods for practical applications is provided the reader will gain a unified deep and systematic understanding of the state of the art technologies for robust speech recognition learn the links and relationship between alternative technologies for robust speech recognition be able to use the technology analysis and categorization detailed in the book to guide future technology development be able to develop new noise robust methods in the current era of deep learning for acoustic modeling in

speech recognition the first book that provides a comprehensive review on noise and reverberation robust speech recognition methods in the era of deep neural networks connects robust speech recognition techniques to machine learning paradigms with rigorous mathematical treatment provides elegant and structural ways to categorize and analyze noise robust speech recognition techniques written by leading researchers who have been actively working on the subject matter in both industrial and academic organizations for many years

foreword looking back the past 30 years we have seen steady progress made in the area of speech science and technology i still remember the excitement in the late seventies when texas instruments came up with a toy named speak and spell which was based on a vlsi chip containing the state of the art linear prediction synthesizer this caused a speech technology fever among the electronics industry particularly applications of automatic speech recognition were rigorously attempted by many companies some of which were start ups founded just for this purpose unfortunately it did not take long before they realized that automatic speech recognition technology was not mature enough to satisfy the need of customers the fever gradually faded away in the meantime constant efforts have been made by many researchers and engineers to improve the automatic speech recognition technology hardware capabilities have advanced impressively since that time in the past few years we have been witnessing and experiencing the advent of the information revolution what might be called the second surge of interest to commercialize speech technology as a natural interface for man machine communication began in much better shape than the first one with computers much more powerful and faster many applications look realistic this time however there are still tremendous practical issues to be overcome in order for speech to be truly the most natural interface between humans and machines

this textbook explains deep learning architecture with applications to various nlp tasks including document classification machine translation language modeling and speech recognition with the widespread adoption of deep learning natural language processing nlp and speech applications in many areas including finance healthcare and government there is a growing need for one comprehensive resource that maps deep learning techniques to nlp and speech and provides insights into using the tools and libraries for real world applications deep learning for nlp and speech recognition explains recent deep learning methods applicable to nlp and speech provides state of the art approaches and offers real world case studies with code to provide hands on experience many books focus on deep learning theory or deep learning for nlp specific tasks while others are cookbooks for tools and libraries but the constant flux of new algorithms tools frameworks and libraries in a rapidly evolving landscape means that there are few available texts that offer the material in this book the book is organized into three parts aligning to different groups of readers and their expertise the three parts are machine learning nlp and speech introduction the first part has three chapters that introduce readers to the fields of nlp speech recognition deep learning and machine learning with basic theory and hands on case studies using python based tools and libraries deep learning basics the five chapters in the second part introduce deep learning and various topics that are crucial for speech and text processing including word embeddings convolutional neural networks recurrent neural networks and speech recognition basics theory practical tips state of the art methods experimentations and analysis in using the methods discussed in theory on real world tasks advanced deep learning techniques for text and speech the third part has five chapters that discuss the latest and cutting edge research in the areas of deep learning that intersect with nlp and speech topics including attention mechanisms memory augmented networks transfer learning multi task learning domain

adaptation reinforcement learning and end to end deep learning for speech recognition are covered using case studies

research in the field of automatic speech and speaker recognition has made a number of significant advances in the last two decades influenced by advances in signal processing algorithms architectures and hardware these advances include the adoption of a statistical pattern recognition paradigm the use of the hidden markov modeling framework to characterize both the spectral and the temporal variations in the speech signal the use of a large set of speech utterance examples from a large population of speakers to train the hidden markov models of some fundamental speech units the organization of speech and language knowledge sources into a structural finite state network and the use of dynamic programming based heuristic search methods to find the best word sequence in the lexical network corresponding to the spoken utterance automatic speech and speaker recognition advanced topics groups together in a single volume a number of important topics on speech and speaker recognition topics which are of fundamental importance but not yet covered in detail in existing textbooks although no explicit partition is given the book is divided into five parts chapters 1 2 are devoted to technology overviews chapters 3 12 discuss acoustic modeling of fundamental speech units and lexical modeling of words and pronunciations chapters 13 15 address the issues related to flexibility and robustness chapter 16 18 concern the theoretical and practical issues of search chapters 19 20 give two examples of algorithm and implementational aspects for recognition system realization audience a reference book for speech researchers and graduate students interested in pursuing potential research on the topic may also be used as a text for advanced courses on the subject

two top industry leaders speak out judith markowitz when amy asked me to co author the foreword to her new book on advances in speech recognition i was honored amy s work has always been infused with creative intensity so i knew the book would be as interesting for established speech professionals as for readers new to the speech processing industry the fact that i would be writing the foreword with bill scholz made the job even more enjoyable bill and i have known each other since he was at unisys directing projects that had a profound impact on speech recognition tools and applications bill scholz the opportunity to prepare this foreword with judith provides me with a rare opportunity to collaborate with a seasoned speech professional to identify numerous significant contributions to the field offered by the contributors whom amy has recruited judith and i have had our eyes opened by the ideas and analyses offered by this collection of authors speech recognition no longer needs be relegated to the category of an experimental future technology it is here today with sufficient capability to address the most challenging of tasks and the point click type approach to gui control is no longer sufficient especially in the context of limitations of mode day hand held devices instead vui and gui are being integrated into unified multimodal solutions that are maturing into the fundamental paradigm for computer human interaction in the future

thirty speech experts cover computer recognition of spoken words phrases sentences introduces the field future prospects reasons for voice input to machines gives guidelines for advanced work in sentence understanding

this book covers the state of the art in deep neural network based methods for noise robustness in distant speech recognition applications it provides insights and detailed descriptions of some of the new concepts and key technologies in the field including

novel architectures for speech enhancement microphone arrays robust features acoustic model adaptation training data augmentation and training criteria the contributed chapters also include descriptions of real world applications benchmark tools and datasets widely used in the field this book is intended for researchers and practitioners working in the field of speech processing and recognition who are interested in the latest deep learning techniques for noise robustness it will also be of interest to graduate students in electrical engineering or computer science who will find it a useful guide to this field of research

automatic speech recognition asr systems are finding increasing use in everyday life many of the commonplace environments where the systems are used are noisy for example users calling up a voice search system from a busy cafeteria or a street this can result in degraded speech recordings and adversely affect the performance of speech recognition systems as the use of asr systems increases knowledge of the state of the art in techniques to deal with such problems becomes critical to system and application engineers and researchers who work with or on asr technologies this book presents a comprehensive survey of the state of the art in techniques used to improve the robustness of speech recognition systems to these degrading external influences key features reviews all the main noise robust asr approaches including signal separation voice activity detection robust feature extraction model compensation and adaptation missing data techniques and recognition of reverberant speech acts as a timely exposition of the topic in light of more widespread use in the future of asr technology in challenging environments addresses robustness issues and signal degradation which are both key requirements for practitioners of asr includes contributions from top asr researchers from leading research units in the field

this book reflects decades of important research on the mathematical foundations of speech recognition it focuses on underlying statistical techniques such as hidden markov models decision trees the expectation maximization algorithm information theoretic goodness criteria maximum entropy probability estimation parameter and data clustering and smoothing of probability distributions the author's goal is to present these principles clearly in the simplest setting to show the advantages of self organization from real data and to enable the reader to apply the techniques bradford books imprint

speech recognition has a long history of being one of the difficult problems in artificial intelligence and computer science as one goes from problem solving tasks such as puzzles and chess to perceptual tasks such as speech and vision the problem characteristics change dramatically knowledge poor to knowledge rich low data rates to high data rates slow response time minutes to hours to instantaneous response time these characteristics taken together increase the computational complexity of the problem by several orders of magnitude further speech provides a challenging task domain which embodies many of the requirements of intelligent behavior operate in real time exploit vast amounts of knowledge tolerate errorfull unexpected unknown input use symbols and abstractions communicate in natural language and learn from the environment voice input to computers offers a number of advantages it provides a natural fast hands free eyes free location free input medium however there are many as yet unsolved problems that prevent routine use of speech as an input device by non experts these include cost real time response speaker independence robustness to variations such as noise microphone speech rate and loudness and the ability to handle non grammatical speech satisfactory solutions to each of these problems can be expected within the next decade recognition of unrestricted spontaneous continuous speech appears unsolvable at present however by the addition of simple

constraints such as clarification dialog to resolve ambiguity we believe it will be possible to develop systems capable of accepting very large vocabulary continuous speechdictation

this book describes the basic principles underlying the generation coding transmission and enhancement of speech and audio signals including advanced statistical and machine learning techniques for speech and speaker recognition with an overview of the key innovations in these areas key research undertaken in speech coding speech enhancement speech recognition emotion recognition and speaker diarization are also presented along with recent advances and new paradigms in these areas

this book provides a comprehensive overview of the recent advancement in the field of automatic speech recognition with a focus on deep learning models including deep neural networks and many of their variants this is the first automatic speech recognition book dedicated to the deep learning approach in addition to the rigorous mathematical treatment of the subject the book also presents insights and theoretical foundation of a series of highly successful deep learning models

this handbook plays a fundamental role in sustainable progress in speech research and development with an accessible format and with accompanying dvd rom it targets three categories of readers graduate students professors and active researchers in academia and engineers in industry who need to understand or implement some specific algorithms for their speech related products it is a superb source of application oriented authoritative and comprehensive information about these technologies this work combines the established knowledge derived from research in such fast evolving disciplines as signal processing and communications acoustics computer science and linguistics

speech technology the use of speech as a means of sending information to and receiving information from computer systems has been in use as a research tool for many years only recently has it begun to move out of the laboratory and into commercially worthwhile applications first with compressed and synthesised spoken messages then with computer recognition of spoken messages and today with diverse applications involving both recognition and reproduction of human speech we have written this book because we believe the technology has now advanced to the point where many more applications of voice recognition and response are both feasible and economically attractive computers that can understand everyday speech are still a distant prospect but provided the limitations of present day equipment are clearly understood there is much that can be achieved with it our aim is to show in non technical language what is now possible with the help of speech technology the text includes many examples of current applications in industry commerce and other fields and we have selected five current industrial applications combining speech recognition and response for more detailed attention industrial cases have been chosen both because we see industry as an important growth area for speech applications in the next few years and because it presents some of the greatest difficulties in speech recognition if you can make it work in industry then you can make it work almost anywhere

a complete overview of distant automatic speech recognition the performance of conventional automatic speech recognition asr systems degrades dramatically as soon as the microphone is moved away from the mouth of the speaker this is due to a broad variety of effects such as background noise overlapping speech from other speakers and reverberation while traditional asr

systems underperform for speech captured with far field sensors there are a number of novel techniques within the recognition system as well as techniques developed in other areas of signal processing that can mitigate the deleterious effects of noise and reverberation as well as separating speech from overlapping speakers distant speech recognition presents a contemporary and comprehensive description of both theoretic abstraction and practical issues inherent in the distant asr problem key features covers the entire topic of distant asr and offers practical solutions to overcome the problems related to it provides documentation and sample scripts to enable readers to construct state of the art distant speech recognition systems gives relevant background information in acoustics and filter techniques explains the extraction and enhancement of classification relevant speech features describes maximum likelihood as well as discriminative parameter estimation and maximum likelihood normalization techniques discusses the use of multi microphone configurations for speaker tracking and channel combination presents several applications of the methods and technologies described in this book accompanying website with open source software and tools to construct state of the art distant speech recognition systems this reference will be an invaluable resource for researchers developers engineers and other professionals as well as advanced students in speech technology signal processing acoustics statistics and artificial intelligence fields

connectionist speech recognition a hybrid approach describes the theory and implementation of a method to incorporate neural network approaches into state of the art continuous speech recognition systems based on hidden markov models hmms to improve their performance in this framework neural networks and in particular multilayer perceptrons or mlps have been restricted to well defined subtasks of the whole system i e hmm emission probability estimation and feature extraction the book describes a successful five year international collaboration between the authors the lessons learned form a case study that demonstrates how hybrid systems can be developed to combine neural networks with more traditional statistical approaches the book illustrates both the advantages and limitations of neural networks in the framework of a statistical systems using standard databases and comparison with some conventional approaches it is shown that mlp probability estimation can improve recognition performance other approaches are discussed though there is no such unequivocal experimental result for these methods connectionist speech recognition is of use to anyone intending to use neural networks for speech recognition or within the framework provided by an existing successful statistical approach this includes research and development groups working in the field of speech recognition both with standard and neural network approaches as well as other pattern recognition and or neural network researchers the book is also suitable as a text for advanced courses on neural networks or speech processing

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 baum welch 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

the book collects the contributions to the nato advanced study institute on speech recognition and understanding recent advances trends and applications held in cetraro italy during the first two weeks of july 1990 this institute focused on three topics that are considered of particular interest and rich of innovation by researchers in the fields of speech recognition and understanding advances in hidden markov modeling connectionist approaches to speech and language modeling and linguistic processing including language and dialogue modeling the purpose of any asi is that of encouraging scientific communications between researchers of nato countries through advanced tutorials and presentations excellent tutorials were offered by invited speakers that present in this book 15 papers which summarize or detail the topics covered in their lectures the lectures were complemented by discussions panel sections and by the presentation of related works carried on by some of the attending researchers these presentations have been collected in 42 short contributions to the proceedings this volume that the reader can find useful for an overview although incomplete of the state of the art in speech understanding is divided into 6 parts

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