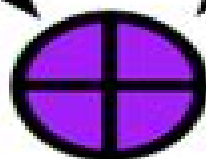
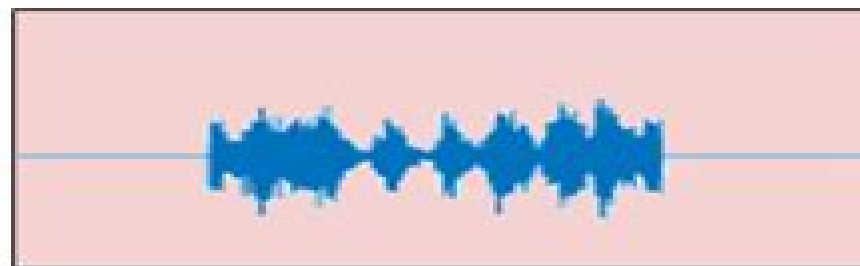


Ambisonics clean speech



Ambisonics noise signal



3D Speech Enhancement



Monaural clean speech

Speech Enhancement Speech Enhancement

Hongjiang Yu



Speech Enhancement Speech Enhancement:

Speech Enhancement Jacob Benesty, Jesper Rindom Jensen, Mads Graesboll Christensen, Jingdong Chen, 2014-01-04

Speech enhancement is a classical problem in signal processing yet still largely unsolved Two of the conventional approaches for solving this problem are linear filtering like the classical Wiener filter and subspace methods These approaches have traditionally been treated as different classes of methods and have been introduced in somewhat different contexts Linear filtering methods originate in stochastic processes while subspace methods have largely been based on developments in numerical linear algebra and matrix approximation theory This book bridges the gap between these two classes of methods by showing how the ideas behind subspace methods can be incorporated into traditional linear filtering In the context of subspace methods the enhancement problem can then be seen as a classical linear filter design problem This means that various solutions can more easily be compared and their performance bounded and assessed in terms of noise reduction and speech distortion The book shows how various filter designs can be obtained in this framework including the maximum SNR Wiener LCMV and MVDR filters and how these can be applied in various contexts like in single channel and multichannel speech enhancement and in both the time and frequency domains First short book treating subspace approaches in a unified way for time and frequency domains single channel multichannel as well as binaural speech enhancement Bridges the gap between optimal filtering methods and subspace approaches Includes original presentation of subspace methods from different perspectives

Speech Enhancement Shoji Makino, Jingdong Chen, 2005 We live in a noisy world In all applications telecommunications hands free communications recording human machine interfaces etc that require at least one microphone the signal of interest is usually contaminated by noise and reverberation As a result the microphone signal has to be cleaned with digital signal processing tools before it is played out transmitted or stored This book is about speech enhancement Different well known and state of the art methods for noise reduction with one or multiple microphones are discussed By speech enhancement we mean not only noise reduction but also dereverberation and separation of independent signals These topics are also covered in this book However the general emphasis is on noise reduction because of the large number of applications that can benefit from this technology The goal of this book is to provide a strong reference for researchers engineers and graduate students who are interested in the problem of signal and speech enhancement To do so we invited well known experts to contribute chapters covering the state of the art in this focused field

TOC Introduction
Study of the Wiener Filter for Noise Reduction
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Filtering Techniques for Noise Reduction Adaptive Microphone Arrays Employing Spatial Quadratic Soft Constraints and Spectral Shaping Single Microphone Blind Dereverberation Separation and Dereverberation of Speech Signals with Multiple Microphones Frequency Domain Blind Source Separation Subband Based Blind Source Separation Real Time Blind Source Separation for Moving Speech Signals Separation of Speech by Computational Auditory Scene Analysis *Audio Source Separation and Speech Enhancement* Emmanuel Vincent, Tuomas Virtanen, Sharon Gannot, 2018-07-24 Learn the technology behind hearing aids Siri and Echo Audio source separation and speech enhancement aim to extract one or more source signals of interest from an audio recording involving several sound sources These technologies are among the most studied in audio signal processing today and bear a critical role in the success of hearing aids hands free phones voice command and other noise robust audio analysis systems and music post production software Research on this topic has followed three convergent paths starting with sensor array processing computational auditory scene analysis and machine learning based approaches such as independent component analysis respectively This book is the first one to provide a comprehensive overview by presenting the common foundations and the differences between these techniques in a unified setting Key features Consolidated perspective on audio source separation and speech enhancement Both historical perspective and latest advances in the field e g deep neural networks Diverse disciplines array processing machine learning and statistical signal processing Covers the most important techniques for both single channel and multichannel processing This book provides both introductory and advanced material suitable for people with basic knowledge of signal processing and machine learning Thanks to its comprehensiveness it will help students select a promising research track researchers leverage the acquired cross domain knowledge to design improved techniques and engineers and developers choose the right technology for their target application scenario It will also be useful for practitioners from other fields e g acoustics multimedia phonetics and musicology willing to exploit audio source separation or speech enhancement as pre processing tools for their own needs

Speech Enhancement Philippos C. Loizou, 2013-02-25 With the proliferation of mobile devices and hearing devices including hearing aids and cochlear implants there is a growing and pressing need to design algorithms that can improve speech intelligibility without sacrificing quality Responding to this need *Speech Enhancement Theory and Practice* Second Edition introduces readers to the basic pr

Speech and Audio Processing for Coding, Enhancement and Recognition Tokunbo Ogunfunmi, Roberto Togneri, Madihally (Sim) Narasimha, 2014-10-14 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 **Speech Enhancement, Modeling and Recognition- Algorithms and Applications** S. Ramakrishnan, 2012-03-14 This book on

Speech Processing consists of seven chapters written by eminent researchers from Italy Canada India Tunisia Finland and The Netherlands The chapters covers important fields in speech processing such as speech enhancement noise cancellation multi resolution spectral analysis voice conversion speech recognition and emotion recognition from speech The chapters contain both survey and original research materials in addition to applications This book will be useful to graduate students researchers and practicing engineers working in speech processing

Canonical Correlation Analysis in Speech Enhancement Jacob Benesty, Israel Cohen, 2017-08-31 This book focuses on the application of canonical correlation analysis CCA to speech enhancement using the filtering approach The authors explain how to derive different classes of time domain and time frequency domain noise reduction filters which are optimal from the CCA perspective for both single channel and multichannel speech enhancement Enhancement of noisy speech has been a challenging problem for many researchers over the past few decades and remains an active research area Typically speech enhancement algorithms operate in the short time Fourier transform STFT domain where the clean speech spectral coefficients are estimated using a multiplicative gain function A filtering approach which can be performed in the time domain or in the subband domain obtains an estimate of the clean speech sample at every time instant or time frequency bin by applying a filtering vector to the noisy speech vector Compared to the multiplicative gain approach the filtering approach more naturally takes into account the correlation of the speech signal in adjacent time frames In this study the authors pursue the filtering approach and show how to apply CCA to the speech enhancement problem They also address the problem of adaptive beamforming from the CCA perspective and show that the well known Wiener and minimum variance distortionless response MVDR beamformers are particular cases of a general class of CCA based adaptive beamformers

Speech Enhancement Jacob Benesty, Shoji Makino, Jingdong Chen, 2006-03-30 We live in a noisy world In all applications telecommunications hands free communications recording human machine interfaces etc that require at least one microphone the signal of interest is usually contaminated by noise and reverberation As a result the microphone signal has to be cleaned with digital signal processing tools before it is played out transmitted or stored This book is about speech enhancement Different well known and state of the art methods for noise reduction with one or multiple microphones are discussed By speech enhancement we mean not only noise reduction but also dereverberation and separation of independent signals These topics are also covered in this book However the general emphasis is on noise reduction because of the large number of applications that can benefit from this technology The goal of this book is to provide a strong reference for researchers engineers and graduate students who are interested in the problem of signal and speech enhancement To do so we invited well known experts to contribute chapters covering the state of the art in this focused field

Speech Enhancement Techniques for Digital Hearing Aids Komal R. Borisagar, Rohit M. Thanki, Bhavin S. Sedani, 2018-11-15 This book provides various speech enhancement algorithms for digital hearing aids It covers information on noise signals extracted from silences of speech signal The description of the algorithm used for this

purpose is also provided Different types of adaptive filters such as Least Mean Squares LMS Normalized LMS NLMS and Recursive Least Squares RLS are described for noise reduction in the speech signals Different types of noises are taken to generate noisy speech signals and therefore information on various noises signals is provided The comparative performance of various adaptive filters for noise reduction in speech signals is also described In addition the book provides a speech enhancement technique using adaptive filtering and necessary frequency strength enhancement using wavelet transform as per the requirement of audiogram for digital hearing aids Presents speech enhancement techniques for improving performance of digital hearing aids Covers various types of adaptive filters and their advantages and limitations Provides a hybrid speech enhancement technique using wavelet transform and adaptive filters *DNN-Assisted Speech Enhancement Approaches Incorporating Phase Information* Hongjiang Yu, 2021 Speech enhancement is a widely adopted technique that removes the interferences in a corrupted speech to improve the speech quality and intelligibility Speech enhancement methods can be implemented in either time domain or time frequency T F domain Among various proposed methods the time frequency domain methods which synthesize the enhanced speech with the estimated magnitude spectrogram and the noisy phase spectrogram gain the most popularity in the past few decades However this kind of techniques tend to ignore the importance of phase processing To overcome this problem the thesis aims to jointly enhance the magnitude and phase spectra by means of the most recent deep neural networks DNNs More specifically three major contributions are presented in this thesis First we present new schemes based on the basic Kalman filter KF to remove the background noise in the noisy speech in time domain where the KF acts as joint estimator for both the magnitude and phase spectra of speech A DNN augmented basic KF is first proposed where DNN is applied for estimating key parameters in the KF namely the linear prediction coefficients LPCs By training the DNN with a large database and making use of the powerful learning ability of DNN the proposed algorithm is able to estimate LPCs from noisy speech more accurately and robustly leading to an improved performance as compared to traditional KF based approaches in speech enhancement We further present a high frequency HF component restoration algorithm to extenuate the degradation in the HF regions of the Kalman filtered speech in which the DNN based bandwidth extension is applied to estimate the magnitude of HF component from the low frequency LF counterpart By incorporating the restoration algorithm the enhanced speech suffers less distortion in the HF component Moreover we propose a hybrid speech enhancement system that exploits DNN for speech reconstruction and Kalman filtering for further denoising Two separate networks are adopted in the estimation of magnitude spectrogram and LPCs of the clean speech respectively The estimated clean magnitude spectrogram is combined with the phase of the noisy speech to reconstruct the estimated clean speech A KF with the estimated parameters is then utilized to remove the residual noise in the reconstructed speech The proposed hybrid system takes advantages of both the DNN based reconstruction and traditional Kalman filtering and can work reliably in either matched or unmatched acoustic environments Next we

incorporate the DNN based parameter estimation scheme in two advanced KFs subband KF and colored noise KF The DNN augmented subband KF method decomposes the noisy speech into several subbands and performs Kalman filtering to each subband speech where the parameters of the KF are estimated by the trained DNN The final enhanced speech is then obtained by synthesizing the enhanced subband speeches In the DNN augmented colored noise KF system both clean speech and noise are modelled as autoregressive AR processes whose parameters comprise the LPCs and the driving noise variances The LPCs are obtained through training a multi objective DNN while the driving noise variances are obtained by solving an optimization problem aiming to minimize the difference between the modelled and observed AR spectra of the noisy speech The colored noise Kalman filter with DNN estimated parameters is then applied to the noisy speech for denoising A post subtraction technique is adopted to further remove the residual noise in the Kalman filtered speech Extensive computer simulations show that the two proposed advanced KF systems achieve significant performance gains when compared to conventional Kalman filter based algorithms as well as recent DNN based methods under both seen and unseen noise conditions Finally we focus on the T F domain speech enhancement with masking technique which aims to retain the speech dominant components and suppress the noise dominant parts of the noisy speech We first derive a new type of mask namely constrained ratio mask CRM to better control the trade off between speech distortion and residual noise in the enhanced speech The CRM is estimated with a trained DNN based on the input noisy feature set and is applied to the noisy magnitude spectrogram for denoising We further extend the CRM to the complex spectrogram estimation where the enhanced magnitude spectrogram is obtained with the CRM while the estimated phase spectrogram is reconstructed with the noisy phase spectrogram and the phase derivatives Performance evaluation reveals our proposed CRM outperforms several traditional masks in terms of objective metrics Moreover the enhanced speech resulting from the CRM based complex spectrogram estimation has a better speech quality than that obtained without using phase reconstruction

The Enigmatic Realm of **Speech Enhancement Speech Enhancement**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Speech Enhancement Speech Enhancement** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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Speech Enhancement Speech Enhancement Introduction

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