

# Noise Reduction in Speech Applications

Edited by

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# Noise Reduction In Speech Applications

**Richard C. Hendriks, Timo  
Gerkmann, Jesper Jensen**



## Noise Reduction In Speech Applications:

Noise Reduction in Speech Applications Gillian M. Davis, 2018-10-03 Noise and distortion that degrade the quality of speech signals can come from any number of sources. The technology and techniques for dealing with noise are almost as numerous but it is only recently with the development of inexpensive digital signal processing hardware that the implementation of the technology has become practical. *Noise Reduction in Speech Applications* provides a comprehensive introduction to modern techniques for removing or reducing background noise from a range of speech related applications. Self contained it starts with a tutorial style chapter of background material then focuses on system aspects, digital algorithms and implementation. The final section explores a variety of applications and demonstrates to potential users of the technology the results possible with the noise reduction techniques presented. The book offers chapters contributed by international experts, a practical systems approach and numerous references. For electrical acoustics, signal processing, communications and bioengineers *Noise Reduction in Speech Applications* is a valuable resource that shows you how to decide whether noise reduction will solve problems in your own systems and how to make the best use of the technologies available.

*Noise Reduction in Speech Processing* Jacob Benesty, Jingdong Chen, Yiteng Huang, Israel Cohen, 2009-04-28 Noise is everywhere and in most applications that are related to audio and speech such as human machine interfaces, hands free communications, voice over IP, VoIP, hearing aids, teleconferencing, telepresence, telecollaboration systems and so many others, the signal of interest, usually speech, that is picked up by a microphone is generally contaminated by noise. As a result, the microphone signal has to be cleaned up with digital signal processing tools before it is stored, analyzed, transmitted or played out. This cleaning process is often called noise reduction and this topic has attracted a considerable amount of research and engineering attention for several decades. One of the objectives of this book is to present in a common framework an overview of the state of the art of noise reduction algorithms in the single channel, one microphone case. The focus is on the most useful approaches, i.e. filtering techniques in different domains and spectral enhancement methods. The other objective of *Noise Reduction in Speech Processing* is to derive all these well known techniques in a rigorous way and prove many fundamental and intuitive results often taken for granted. This book is especially written for graduate students and research engineers who work on noise reduction for speech and audio applications and want to understand the subtle mechanisms behind each approach. Many new and interesting concepts are presented in this text that we hope the readers will find useful and inspiring.

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 Statistical Methods for the Enhancement of Noisy Speech Single und Multi Microphone Spectral Amplitude Estimation Using a Super Gaussian Speech Model From Volatility Modeling of Financial Time Series to Stochastic Modeling and Enhancement of Speech Signals Single Microphone Noise Suppression for 3G Handsets Based on Weighted Noise Estimation Signal Subspace Techniques for Speech Enhancement Speech Enhancement Application of the Kalman Filter in the Estimate Maximize EM Framework Speech Distortion Weighted Multichannel Wiener 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 **Fundamentals of Voice-Quality Engineering in Wireless Networks** Avi Perry, 2007 Publisher description *Optimal Time-Domain Noise Reduction Filters* Jacob Benesty, Jingdong Chen, 2011-04-15

Additive noise is ubiquitous in acoustics environments and can affect the intelligibility and quality of speech signals. Therefore a so called noise reduction algorithm is required to mitigate the effect of the noise that is picked up by the microphones. This work proposes a general framework in the time domain for the single and multiple microphone cases from which it is very convenient to derive study and analyze all kind of optimal noise reduction filters. Not only that all known algorithms can be deduced from this approach shedding more light on how they function but new ones can be discovered as well.

**DFT-domain Based Single-microphone Noise Reduction for Speech Enhancement** Richard C. Hendriks, Timo Gerkmann, Jesper Jensen, 2013. Outlines the significant advances that have been made during the last decade in the field of discrete Fourier transform domain based single channel noise reduction for speech enhancement. Furthermore the book provides a concise description of a state of the art speech enhancement system and demonstrates the relative importance of the various building blocks of such a system.

**Adaptive Filtering Applications** Lino Garcia Morales, 2011-07-05. Adaptive filtering is useful in any application where the signals or the modeled system vary over time. The configuration of the system and in particular the position where the adaptive processor is placed generate different areas or application fields such as prediction system identification and modeling equalization cancellation of interference etc which are very important in many disciplines such as control systems communications signal processing acoustics voice sound and image etc. The book consists of noise and echo cancellation medical applications communications systems and others hardly joined by their heterogeneity. Each application is a case study with rigor that shows weakness strength of the method used assesses its suitability and suggests new forms and areas of use. The problems are becoming increasingly complex and applications must be adapted to solve them. The adaptive filters have proven to be useful in these environments of multiple input output variant time behaviors and long and complex transfer functions effectively but fundamentally they still have to evolve. This book is a demonstration of this and a small illustration of everything that is to come.

**Metaheuristic and Evolutionary Computation: Algorithms and Applications** Hasmat Malik, Atif Iqbal, Puneet Joshi, Sanjay Agrawal, Farhad Ilahi Bakhsh, 2020-10-08. This book addresses the principles and applications of metaheuristic approaches in engineering and related fields. The first part covers metaheuristics tools and techniques such as ant colony optimization and Tabu search and their applications to several classes of optimization problems. In turn the book's second part focuses on a wide variety of metaheuristics applications in engineering and or the applied sciences e.g. in smart grids and renewable energy. In addition the simulation codes for the problems discussed are included in an appendix for ready reference. Intended for researchers aspiring to learn and apply metaheuristic techniques and gathering contributions by prominent experts in the field the book offers readers an essential introduction to metaheuristics its theoretical aspects and applications.

**Encyclopedia of Information Science and Technology, First Edition** Khosrow-Pour, D.B.A., Mehdi, 2005-01-31. Comprehensive coverage of critical issues related to information science and technology.

*Speech and Audio Processing in Adverse Environments* Eberhard Hänsler, Gerhard

Schmidt, 2008-07-22 Users of signal processing systems are never satisfied with the system they currently use. They are constantly asking for higher quality, faster performance, more comfort, and lower prices. Researchers and developers should be appreciative for this attitude. It justifies their constant effort for improved systems. Better knowledge about biological and physical interrelations, coming along with more powerful technologies, are their engines on the endless road to perfect systems. This book is an impressive image of this process. After *Acoustic Echo 1 and Noise Control* published in 2004, many new results lead to *Topics in 2 Acoustic Echo and Noise Control* edited in 2006. Today in 2008, even more new findings and systems could be collected in this book. Comparing the contributions in both edited volumes, progress in knowledge and technology becomes clearly visible. Blind methods and multi-input systems replace the low complexity systems. The functionality of new systems is less and less limited by the processing power available under economic constraints. The editors have to thank all the authors for their contributions. They cooperated readily in our effort to unify the layout of the chapters, the terminology, and the symbols used. It was a pleasure to work with all of them. Furthermore, it is the editors' concern to thank Christoph Baumann and the Springer Publishing Company for the encouragement and help in publishing this book.

**Chinese Spoken Language Processing** Qiang Huo, Bin Ma, Eng-Siong Chng, Haizhou Li, 2006-11-27 This book constitutes the thoroughly refereed proceedings of the 5th International Symposium on Chinese Spoken Language Processing ISCSLP 2006 held in Singapore in December 2006, co-located with ICCPOL 2006, the 21st International Conference on Computer Processing of Oriental Languages. Coverage includes speech science, acoustic modeling for automatic speech recognition, speech data mining, and machine translation of speech. **Evaluation of Noise Reduction Techniques and RBF Neural Network for Robust Speech Recognition in Mobile Applications** Netoo Singh Sethi, 1997

**Advanced Signal Processing and Digital Noise Reduction** Saeed V. Vaseghi, 2013-03-09 **Advanced Signal Enhancement Techniques with Application to Speech and Hearing** Navin Chatlani, 2011 Advanced signal enhancement techniques with application to speech and hearing are presented that are applied to areas including adaptive noise cancellation, ANC in noisy speech signals, single channel noise reduction for speech enhancement, voice activity detection, VAD, and noise reduction in binaural hearing aids. The performance enhancement of the new techniques over competing approaches is presented. For the domains of ANC and single channel noise reduction, the use of Empirical Mode Decomposition (EMD) is the underpinning technique employed. A novel approach to dual channel speech enhancement using Adaptive Empirical Mode Decomposition (SEAEMD) is also presented when a noise reference is available. The new SEAEMD system incorporates the multi-resolution approach EMD with ANC for effective speech enhancement in stationary and non-stationary noise environments. Two novel Empirical Mode Decomposition based filtering (EMDF) algorithms are presented for single channel speech enhancement. The first system is designed to be particularly effective in low frequency noise environments. The second generalized EMDF system is designed to operate under other noisy conditions with results

presented for babble noise military vehicle noise and car interior noise It is shown that the proposed EMDF techniques enhance the speech more effectively than current speech enhancement approaches that use effective noise estimation routines Speech systems such as hearing aids require fast and computationally inexpensive signal processing technologies A new and computationally efficient 1 dimensional local binary pattern 1 D LBP signal processing procedure is designed and applied to i signal segmentation and ii the VAD problem Both applications use the underlying features extracted from the 1 D LBP The simplicity and low computational complexity of 1 D LBP processing are demonstrated A novel binaural noise reduction system is presented for steering the focus direction of a hearing aid 2 microphones per hearing aid to additional directions as well as 0 180 degrees The system places a spatial null in the direction of the target speaker to obtain a noise estimate The noisy speech signal is then filtered to perform noise reduction and thus focus on the target speaker located at the desired direction The results demonstrate its performance at attenuating multiple directional interferers

**DFT-Domain Based Single-Microphone Noise Reduction for Speech Enhancement** Richard C. Hendriks, Timo Gerkmann, Jesper Jensen, 2013-02-11 As speech processing devices like mobile phones voice controlled devices and hearing aids have increased in popularity people expect them to work anywhere and at any time without user intervention However the presence of acoustical disturbances limits the use of these applications degrades their performance or causes the user difficulties in understanding the conversation or appreciating the device A common way to reduce the effects of such disturbances is through the use of single microphone noise reduction algorithms for speech enhancement The field of single microphone noise reduction for speech enhancement comprises a history of more than 30 years of research In this survey we wish to demonstrate the significant advances that have been made during the last decade in the field of discrete Fourier transform domain based single channel noise reduction for speech enhancement Furthermore our goal is to provide a concise description of a state of the art speech enhancement system and demonstrate the relative importance of the various building blocks of such a system This allows the non expert DSP practitioner to judge the relevance of each building block and to implement a close to optimal enhancement system for the particular application at hand Table of Contents Introduction Single Channel Speech Enhancement General Principles DFT Based Speech Enhancement Methods Signal Model and Notation Speech DFT Estimators Speech Presence Probability Estimation Noise PSD Estimation Speech PSD Estimation Performance Evaluation Methods Simulation Experiments with Single Channel Enhancement Systems Future Directions

Digital Signal Processing Applications ,2004      Active Noise Cancellation Vasant S. Shridhar, 2010      **Acoustic Echo and Noise Control** Eberhard Hänsler, Gerhard Schmidt, 2005-01-21 Authors are well known and highly recognized by the acoustic echo and noise community Presents a detailed description of practical methods to control echo and noise Develops a statistical theory for optimal control parameters and presents practical estimation and approximation methods      *IEEE ASSP Workshop on Applications of Signal Processing to Audio and Acoustics* ,2001

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