Noise Reduction in Speech Applications

Edited by
Gillian M. Davis

Noise Reduction In Speech Applications

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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 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 Adpative 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 **Active Control of Noise and Vibration** Colin Hansen,Scott Snyder,Xiaojun Qiu,Laura Brooks,Danielle Moreau,2012-11-02 Integrating active control of both sound and vibration this comprehensive two volume set combines coverage of fundamental principles with the most recent theoretical and practical developments The authors explain how to design and implement successful active control systems in practice and detail the pitfalls one must avoid to ensure a reliable and stable system Extensively revised updated and expanded throughout the second edition reflects the advances that have been made in algorithms DSP hardware and applications since the publication of the first edition *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   *Intelligent Information Processing V* Zhongzhi Shi,Sunil Vadera,Agnar Aamodt,David Leake,2010-10-05 This volume comprises the 6th IFIP International Conference on Intelligent Infor tion Processing As the world proceeds quickly into the Information Age it encounters both successes and challenges and it is well recognized nowadays that intelligent information processing provides the key to the Information Age and to mastering many of these challenges Intelligent information processing supports the most vanced productive tools that are said to be able to change human life and the world itself However the path is never a straight one and every new technology brings with it a spate of new research problems to be tackled by researchers as a result we are not running out of topics rather the demand is ever increasing This conference provides a forum for engineers and scientists in academia and industry to present their latest research findings in all aspects of intelligent information processing This is the 6th IFIP International Conference on Intelligent Information Processing We received more than 50 papers of which 35 papers are included in this program as regular papers and 4 as short papers We are grateful for the dedicated work of both the authors and the referees and we hope these proceedings will continue to bear fruit over the years to come All papers submitted were reviewed by two referees A conference such as this cannot succeed without help from many individuals who contributed their valuable time and expertise   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   **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 *Fundamentals of Signal Enhancement and Array Signal Processing* Jacob Benesty,Israel Cohen,Jingdong Chen,2017-09-06 A comprehensive guide to the theory and practice of signal enhancement and array signal processing including matlab codes exercises and instructor and solution manuals Systematically introduces the fundamental principles theory and applications of signal enhancement and array signal processing in an accessible manner Offers an updated and relevant treatment of array signal processing with rigor and concision Features a companion website that includes presentation files with lecture notes homework exercises course projects solution manuals instructor manuals and Matlab codes for the examples in the book **Audio Signal Processing for Next-Generation Multimedia Communication Systems** Yiteng (Arden) Huang,Jacob Benesty,2007-05-08 Audio Signal Processing for Next Generation Multimedia Communication Systems presents cutting edge digital signal processing theory and implementation techniques for problems including speech acquisition and enhancement using microphone arrays new adaptive filtering algorithms multichannel acoustic echo cancellation sound source tracking and separation audio coding and realistic sound stage reproduction This book s focus is almost exclusively on the processing transmission and presentation of audio and acoustic signals in multimedia communications for telecollaboration where immersive acoustics will play a great role in the near future

Proceedings of the Eleventh National Conference on Communications ,2005 *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 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 *Artificial Intelligence and Knowledge Engineering Applications: A Bioinspired Approach* José Mira,José R. Álvarez,2005-06-09 *Independent Component Analysis for Audio and Biosignal Applications* Ganesh R. Naik,2012-10-10 Independent Component Analysis ICA is a signal processing method to extract independent sources given only observed data that are mixtures of the unknown sources Recently Blind Source Separation

BSS by ICA has received considerable attention because of its potential signal processing applications such as speech enhancement systems image processing telecommunications medical signal processing and several data mining issues This book brings the state of the art of some of the most important current research of ICA related to Audio and Biomedical signal processing applications The book is partly a textbook and partly a monograph It is a textbook because it gives a detailed introduction to ICA applications It is simultaneously a monograph because it presents several new results concepts and further developments which are brought together and published in the book **ICT with Intelligent Applications** Tomonobu Senjyu,Parikshit N. Mahalle,Thinagaran Perumal,Amit Joshi,2021-12-05 This book gathers papers addressing state of the art research in all areas of information and communication technologies and their applications in intelligent computing cloud storage data mining and software analysis It presents the outcomes of the Fifth International Conference on Information and Communication Technology for Intelligent Systems ICTIS 2021 held in Ahmedabad India The book is divided into two volumes It discusses the fundamentals of various data analysis techniques and algorithms making it a valuable resource for researchers and practitioners alike *Theory and Applications of Spherical Microphone Array Processing* Daniel P. Jarrett,Emanuël A.P. Habets,Patrick A. Naylor,2016-08-26 This book presents the signal processing algorithms that have been developed to process the signals acquired by a spherical microphone array Spherical microphone arrays can be used to capture the sound field in three dimensions and have received significant interest from researchers and audio engineers Algorithms for spherical array processing are different to corresponding algorithms already known in the literature of linear and planar arrays because the spherical geometry can be exploited to great beneficial effect The authors aim to advance the field of spherical array processing by helping those new to the field to study it efficiently and from a single source as well as by offering a way for more experienced researchers and engineers to consolidate their understanding adding either or both of breadth and depth The level of the presentation corresponds to graduate studies at MSc and PhD level This book begins with a presentation of some of the essential mathematical and physical theory relevant to spherical microphone arrays and of an acoustic impulse response simulation method which can be used to comprehensively evaluate spherical array processing algorithms in reverberant environments The chapter on acoustic parameter estimation describes the way in which useful descriptions of acoustic scenes can be parameterized and the signal processing algorithms that can be used to estimate the parameter values using spherical microphone arrays Subsequent chapters exploit these parameters including in particular measures of direction of arrival and of diffuseness of a sound field The array processing algorithms are then classified into two main classes each described in a separate chapter These are signal dependent and signal independent beamforming algorithms Although signal dependent beamforming algorithms are in theory able to provide better performance compared to the signal independent algorithms they are currently rarely used in practice The main reason for this is that the statistical information required by these algorithms is difficult to estimate In a subsequent chapter

it is shown how the estimated acoustic parameters can be used in the design of signal dependent beamforming algorithms This final step closes at least in part the gap between theory and practice **Artificial Intelligence for Communications and Networks** Shuai Han,Liang Ye,Weixiao Meng,2019-07-04 This two volume set LNICST 286 287 constitutes the post conference proceedings of the First EAI International Conference on Artificial Intelligence for Communications and Networks AICON 2019 held in Harbin China in May 2019 The 93 full papers were carefully reviewed and selected from 152 submissions The papers are organized in topical sections on artificial intelligence mobile network deep learning machine learning wireless communication cognitive radio internet of things big data communication system pattern recognition channel model beamforming signal processing 5G mobile management resource management wireless position Forensic Speaker Recognition Amy Neustein,Hemant A. Patil,2011-10-05 Forensic Speaker Recognition Law Enforcement and Counter Terrorism is an anthology of the research findings of 35 speaker recognition experts from around the world The volume provides a multidimensional view of the complex science involved in determining whether a suspect s voice truly matches forensic speech samples collected by law enforcement and counter terrorism agencies that are associated with the commission of a terrorist act or other crimes While addressing such topics as the challenges of forensic case work handling speech signal degradation analyzing features of speaker recognition to optimize voice verification system performance and designing voice applications that meet the practical needs of law enforcement and counter terrorism agencies this material all sounds a common theme how the rigors of forensic utility are demanding new levels of excellence in all aspects of speaker recognition The contributors are among the most eminent scientists in speech engineering and signal processing and their work represents such diverse countries as Switzerland Sweden Italy France Japan India and the United States Forensic Speaker Recognition is a useful book for forensic speech scientists speech signal processing experts speech system developers criminal prosecutors and counter terrorism intelligence officers and agents

This book delves into Noise Reduction In Speech Applications. Noise Reduction In Speech Applications is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Noise Reduction In Speech Applications, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

   - Chapter 1: Introduction to Noise Reduction In Speech Applications
   - Chapter 2: Essential Elements of Noise Reduction In Speech Applications
   - Chapter 3: Noise Reduction In Speech Applications in Everyday Life
   - Chapter 4: Noise Reduction In Speech Applications in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Noise Reduction In Speech Applications. This chapter will explore what Noise Reduction In Speech Applications is, why Noise Reduction In Speech Applications is vital, and how to effectively learn about Noise Reduction In Speech Applications.
3. In chapter 2, this book will delve into the foundational concepts of Noise Reduction In Speech Applications. This chapter will elucidate the essential principles that need to be understood to grasp Noise Reduction In Speech Applications in its entirety.
4. In chapter 3, the author will examine the practical applications of Noise Reduction In Speech Applications in daily life. This chapter will showcase real-world examples of how Noise Reduction In Speech Applications can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Noise Reduction In Speech Applications in specific contexts. The fourth chapter will explore how Noise Reduction In Speech Applications is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Noise Reduction In Speech Applications. This chapter will summarize the key points that have been discussed throughout the book.
   The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Noise Reduction In Speech Applications.

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