DIGITAL SIGNAL PROCESSING

J. Benesty · T. Gänsler D. R. Morgan · M. M. Sondhi S. L. Gay

Advances in Network and Acoustic Echo Cancellation



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David Havelock, Sonoko Kuwano, Michael Vorländer

Advances In Network And Acoustic Echo Cancellation:

Advances in Network and Acoustic Echo Cancellation J. Benesty, T. Gänsler, D.R. Morgan, M.M. Sondhi, S.L. Gay, 2013-04-17 For many decades hybrid devices have been used to connect 2 wire local circuits and 4 wire long distance circuits in telephone lines This leads to a well known problem whereby echoes are generated The delay introduced by telecommunication satellites exacerbated this problem and the need for new methods of echo control soon became obvious The best solution to date for solving this problem was invented in the 1960s at Bell Labs by Kelly Logan and Sondhi and consists of identifying the echo path generated by the hybrid by means of an adaptive filter a technique that became known as an echo canceler The echo canceler allowed full duplex communication which was not possible with older echo suppression techniques Later with the development of hands free teleconferencing systems an other echo problem appeared but this time the echo was due to the coupling between the loudspeaker and microphone It is not surprising that the same solution was proposed to solve this problem and most of today s telecon ferencing systems have an acoustic echo canceler More recently attention has been given to the very interesting problem of multichannel acoustic echo cancellation which leads to more exciting applications that take advantage of our binaural auditory system **Sparse Adaptive Filters for Echo Cancellation** Constantin Paleologu, Jacob Benesty, Silviu Ciochina, 2022-05-31 Adaptive filters with a large number of coefficients are usually involved in both network and acoustic echo cancellation Consequently it is important to improve the convergence rate and tracking of the conventional algorithms used for these applications. This can be achieved by exploiting the sparseness character of the echo paths Identification of sparse impulse responses was addressed mainly in the last decade with the development of the so called proportionate type algorithms. The goal of this book is to present the most important sparse adaptive filters developed for echo cancellation Besides a comprehensive review of the basic proportionate type algorithms we also present some of the latest developments in the field and propose some new solutions for further performance improvement e q variable step size versions and novel proportionate type affine projection algorithms An experimental study is also provided in order to compare many sparse adaptive filters in different echo cancellation scenarios Table of Contents Introduction Sparseness Measures Performance Measures Wiener and Basic Adaptive Filters Basic Proportionate Type NLMS Adaptive Filters The Exponentiated Gradient Algorithms The Mu Law PNLMS and Other PNLMS Type Algorithms Variable Step Size PNLMS Algorithms Proportionate Affine Projection Algorithms Experimental Study

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 Adaptive Signal Processing Jacob Benesty, Yiteng Huang, 2013-03-09 By adaptive signal processing we mean in general adaptive ltering In known environments where we need to model identify or track time varying channels adaptive Itering has been proven to be an elective and powerful tool As a result this tool is now in use in many di erent elds Since the invention by Widrow and Ho in 1959 of one of the rst ad tive lters the so called least mean square many applications appeared to have the potential to use this fundamental concept While the number of plications using adaptive algorithms has been and keeps ourishing with time thanks to several successes the need for more sophisticated adaptive algorithms became obvious as real world problems are more complex and more demanding Even though the theory of adaptive ltering is already a well established topic in signal processing new and improved concepts are discovered every year by researchers Some of these recent approaches are discussed in this book The goal of this book is to provide for the rst time a reference to the hottest real world applications where adaptive Itering techniques play an important role To do so we invited top researchers in di erent elds to c tribute chapters addressing their speci c topic of study Thousands of pages would probably not be enough to describe all the practical application sutiling adaptive algorithms Therefore we limited the topics to some important applications in acoustics speech wireless and networking where research is still very active and open Handbook of Signal Processing in Acoustics David Havelock, Sonoko Kuwano, Michael Vorländer, 2008-10-26 The Handbook of Signal Processing in Acoustics brings together a wide range of perspectives from over 100 authors to reveal the interdisciplinary nature of the subject It brings the key issues from both acoustics and signal processing into perspective and is a unique resource for experts and practitioners alike to find new ideas and techniques within the diversity of signal processing in acoustics **Advances in Digital Speech Transmission** Prof Rainer Martin, Prof Ulrich Heute, Prof Christiane Antweiler, 2008-02-28 Speech processing and speech transmission technology are expanding fields of active research New challenges arise from the anywhere anytime paradigm of mobile communications the ubiquitous use of voice communication systems in noisy environments and the convergence of communication networks toward Internet based transmission protocols such as Voice over IP As a consequence new speech coding new enhancement and error concealment and new quality assessment methods are emerging Advances in Digital Speech Transmission provides an up to date overview of the field including topics such as speech coding in heterogeneous communication networks wideband coding and the quality assessment of wideband speech Provides an insight into the latest developments in speech processing and speech transmission making it an essential reference to those working in these fields Offers a balanced overview of technology and applications Discusses topics such as speech coding in heterogeneous communications networks wideband coding and the quality assessment of the wideband speech Explains speech signal processing in hearing instruments and man machine interfaces from applications point of view Covers speech coding for Voice over IP blind source

separation digital hearing aids and speech processing for automatic speech recognition Advances in Digital Speech Transmission serves as an essential link between the basics and the type of technology and applications prospective engineers work on in industry labs and academia The book will also be of interest to advanced students researchers and other professionals who need to brush up their knowledge in this field **Speech Dereverberation** Patrick A. Naylor, Nikolay D. Gaubitch, 2010-07-27 Speech Dereverberation gathers together an overview a mathematical formulation of the problem and the state of the art solutions for dereverberation Speech Dereverberation presents current approaches to the problem of reverberation It provides a review of topics in room acoustics and also describes performance measures for dereverberation. The algorithms are then explained with mathematical analysis and examples that enable the reader to see the strengths and weaknesses of the various techniques as well as giving an understanding of the guestions still to be addressed Techniques rooted in speech enhancement are included in addition to a treatment of multichannel blind acoustic system identification and inversion The TRINICON framework is shown in the context of dereverberation to be a generalization of the signal processing for a range of analysis and enhancement techniques Speech Dereverberation is suitable for students at masters and doctoral level as well as established researchers Advanced Control Engineering Methods in Electrical Engineering Systems Mohammed Chadli, Sofiane Bououden, Salim Ziani, Ivan Zelinka, 2018-09-10 This book presents the proceedings of the Third International Conference on Electrical Engineering and Control ICEECA2017 It covers new control system models and troubleshooting tips and also addresses complex system requirements such as increased speed precision and remote capabilities bridging the gap between the complex math heavy controls theory taught in formal courses and the efficient implementation required in real world industry settings Further it considers both the engineering aspects of signal processing and the practical issues in the broad field of information transmission and novel technologies for communication networks and modern antenna design This book is intended for researchers engineers and advanced postgraduate students in control and electrical engineering computer science signal processing as well as mechanical and chemical engineering A Perspective on Stereophonic Acoustic Echo Cancellation Jacob Benesty, Constantin Paleologu, Tomas Gänsler, Silviu Ciochină, 2011-07-25 Single channel hands free teleconferencing systems are becoming popular In order to enhance the communication quality of these systems more and more stereophonic sound devices with two loudspeakers and two microphones are deployed Because of the coupling between loudspeakers and microphones there may be strong echoes which make real time communication very difficult The best way we know to cancel these echoes is via a stereo acoustic echo canceller SAEC which can be modelled as a two input two output system with real random variables In this work the authors recast this problem into a single input single output system with complex random variables thanks to the widely linear model From this new convenient formulation they re derive the most important aspects of a SAEC including identification of the echo paths with adaptive filters double talk detection and suppression

Least-Mean-Square Adaptive Filters Simon Haykin, Bernard Widrow, 2003-09-08 Edited by the original inventor of the technology Includes contributions by the foremost experts in the field The only book to cover these topics together	

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