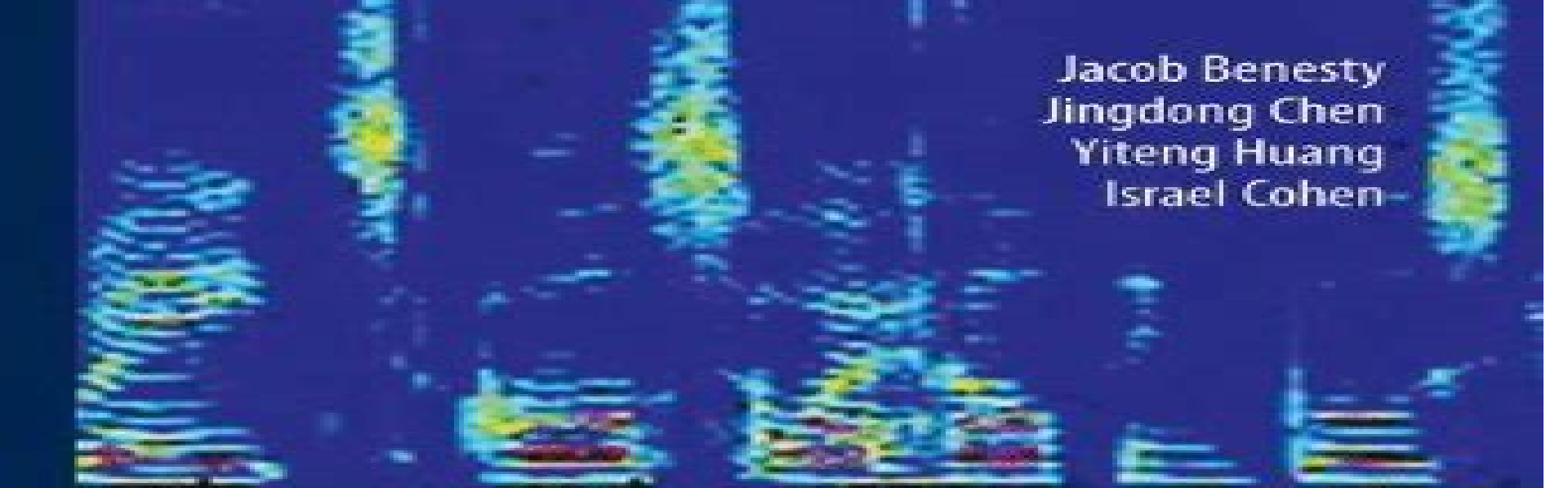


A spectrogram showing frequency components over time, with various colored lines (yellow, green, blue) on a dark background, representing the spectral content of a signal.

Jacob Benesty
Jingdong Chen
Yiteng Huang
Israel Cohen

SPRINGER TOPICS IN SIGNAL PROCESSING

Noise Reduction in Speech Processing

 Springer

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**Jacob Benesty, Jingdong Chen, Yiteng
Huang, Israel Cohen**



Noise Reduction In Speech Processing Springer Topics In Signal Processing:

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 Processing in Modern Communication Israel Cohen, Jacob Benesty, Sharon Gannot, 2009-12-18 Modern communication devices such as mobile phones teleconferencing systems VoIP etc are often used in noisy and reverberant environments Therefore signals picked up by the microphones from telecommunication devices contain not only the desired near end speech signal but also interferences such as the background noise far end echoes produced by the loudspeaker and reverberations of the desired source These interferences degrade the fidelity and intelligibility of the near end speech in human to human telecommunications and decrease the performance of human to machine interfaces i e automatic speech recognition systems The proposed book deals with the fundamental challenges of speech processing in modern communication including speech enhancement interference suppression acoustic echo cancellation relative transfer function identification source localization dereverberation and beamforming in reverberant environments Enhancement of speech signals is necessary whenever the source signal is corrupted by noise In highly non stationary noise environments noise transients and interferences may be extremely annoying Acoustic echo cancellation is used to eliminate the acoustic coupling between the loudspeaker and the microphone of a communication device Identification of the relative transfer function between sensors in response to a desired speech signal enables to derive a reference noise signal for suppressing directional or coherent noise sources Source localization dereverberation and beamforming in reverberant environments further enable to increase the intelligibility of the near end speech signal

Speech and Audio Signal Processing Ben Gold, Nelson Morgan, Dan Ellis, 2011-08-23 When Speech and Audio Signal Processing published in 1999 it stood out from its

competition in its breadth of coverage and its accessible intuition based style This book was aimed at individual students and engineers excited about the broad span of audio processing and curious to understand the available techniques Since then with the advent of the iPod in 2001 the field of digital audio and music has exploded leading to a much greater interest in the technical aspects of audio processing This Second Edition will update and revise the original book to augment it with new material describing both the enabling technologies of digital music distribution most significantly the MP3 and a range of exciting new research areas in automatic music content processing such as automatic transcription music similarity etc that have emerged in the past five years driven by the digital music revolution New chapter topics include Psychoacoustic Audio Coding describing MP3 and related audio coding schemes based on psychoacoustic masking of quantization noise Music Transcription including automatically deriving notes beats and chords from music signals Music Information Retrieval primarily focusing on audio based genre classification artist style identification and similarity estimation Audio Source Separation including multi microphone beamforming blind source separation and the perception inspired techniques usually referred to as Computational Auditory Scene Analysis CASA

Earth Observation Data Cubes Gregory Giuliani, Gilberto Camara, Brian Killough, Stuart Minchin, 2020-03-16 Satellite Earth observation EO data have already exceeded the petabyte scale and are increasingly freely and openly available from different data providers This poses a number of issues in terms of volume e g data volumes have increased 10 in the last 5 years velocity e g Sentinel 2 is capturing a new image of any given place every 5 days and variety e g different types of sensors spatial spectral resolutions Traditional approaches to the acquisition management distribution and analysis of EO data have limitations e g data size heterogeneity and complexity that impede their true information potential to be realized Addressing these big data challenges requires a change of paradigm and a move away from local processing and data distribution methods to lower the barriers caused by data size and related complications in data management To tackle these issues EO data cubes EODC are a new paradigm revolutionizing the way users can store organize manage and analyze EO data This Special Issue is consequently aiming to cover the most recent advances in EODC developments and implementations to broaden the use of EO data to larger communities of users support decision makers with timely and actionable information converted into meaningful geophysical variables and ultimately unlock the information power of EO data

A Perspective on Single-channel Frequency-domain Speech

Enhancement Jacob Benesty, Yiteng Huang, 2011 This book focuses on a class of single channel noise reduction methods that are performed in the frequency domain via the short time Fourier transform STFT The simplicity and relative effectiveness of this class of approaches make them the dominant choice in practical systems Even though many popular algorithms have been proposed through more than four decades of continuous research there are a number of critical areas where our understanding and capabilities still remain quite rudimentary especially with respect to the relationship between noise reduction and speech distortion All existing frequency domain algorithms no matter how they are developed have one feature

in common the solution is eventually expressed as a gain function applied to the STFT of the noisy signal only in the current frame. As a result the narrowband signal to noise ratio SNR cannot be improved and any gains achieved in noise reduction on the fullband basis come with a price to pay which is speech distortion. In this book we present a new perspective on the problem by exploiting the difference between speech and typical noise in circularity and interframe self correlation which were ignored in the past. By gathering the STFT of the microphone signal of the current frame its complex conjugate and the STFTs in the previous frames we construct several new multiple observation signal models similar to a microphone array system there are multiple noisy speech observations and their speech components are correlated but not completely coherent while their noise components are presumably uncorrelated. Therefore the multichannel Wiener filter and the minimum variance distortionless response MVDR filter that were usually associated with microphone arrays will be developed for single channel noise reduction in this book. This might instigate a paradigm shift geared toward speech distortionless noise reduction techniques.

Managerial Perspectives on Intelligent Big Data Analytics Sun, Zhaohao, 2019-02-22 Big data analytics and artificial intelligence are revolutionizing work management and lifestyles and are becoming disruptive technologies for healthcare e commerce and web services. However many fundamental technological and managerial issues for developing and applying intelligent big data analytics in these fields have yet to be addressed. *Managerial Perspectives on Intelligent Big Data Analytics* is a collection of innovative research that discusses the integration and application of artificial intelligence business intelligence digital transformation and intelligent big data analytics from a perspective of computing service and management. While highlighting topics including e commerce machine learning and fuzzy logic this book is ideally designed for students government officials data scientists managers consultants analysts IT specialists academicians researchers and industry professionals in fields that include big data artificial intelligence computing and commerce.

Disease Ecology: Novel Concepts and Methods to Track and Forecast Disease Emergence, Transmission, Spread, and Endemization Vincent Obanda, Kimberly VanderWaal, Michel De Garine-Wichatitsky, Nicholas M.

Fountain-Jones, Olivia Wesula Lwande, 2022-10-14

Microphone Array Signal Processing Jacob Benesty, Jingdong

Chen, Yiteng Huang, 2008-03-11 In the past few years we have written and edited several books in the area of

acoustic and speech signal processing. The reason behind this endeavor is that there were almost no books available in the literature when we first started while there was and still is a real need to publish manuscripts summarizing the most useful ideas concepts results and state of the art algorithms in this important area of research. According to all the feedback we have received so far we can say that we were right in doing this. Recently several other researchers have followed us in this journey and have published interesting books with their own visions and perspectives. The idea of writing a book on *Microphone Array Signal Processing* comes from discussions we have had with many colleagues and friends. As a consequence of these discussions we came up with the conclusion that again there is an urgent need for a monograph that carefully

explains the theory and implementation of microphone arrays While there are many manuscripts on antenna arrays from a narrowband perspective narrowband signals and narrowband processing the literature is quite scarce when it comes to s or arrays explained from a truly broadband perspective Many algorithms for speech applications were simply borrowed from narrowband antenna rays However a direct application of narrowband ideas to broadband speech processing may not be necessarily appropriate and can lead to many m understandings Basic Quantitative Research Methods for Urban

Planners Reid Ewing,Keunhyun Park,2020-02-24 In most planning practice and research planners work with quantitative data By summarizing analyzing and presenting data planners create stories and narratives that explain various planning issues Particularly in the era of big data and data mining there is a stronger demand in planning practice and research to increase capacity for data driven storytelling Basic Quantitative Research Methods for Urban Planners provides readers with comprehensive knowledge and hands on techniques for a variety of quantitative research studies from descriptive statistics to commonly used inferential statistics It covers statistical methods from chi square through logistic regression and also quasi experimental studies At the same time the book provides fundamental knowledge about research in general such as planning data sources and uses conceptual frameworks and technical writing The book presents relatively complex material in the simplest and clearest way possible and through the use of real world planning examples makes the theoretical and abstract content of each chapter as tangible as possible It will be invaluable to students and novice researchers from planning programs intermediate researchers who want to branch out methodologically practicing planners who need to conduct basic analyses with planning data and anyone who consumes the research of others and needs to judge its validity and reliability *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

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