Todor Ganchev

Contemporary Methods for Speech Parameterization

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Albert A Gayle

Contemporary Methods For Speech Parameterization Contemporary Methods For Speech Parameterization:
    Contemporary Methods for Speech Parameterization Todor Ganchev,2011-08-10 Contemporary Methods for Speech Parameterization offers a general view of short time cepstrum based speech parameterization and provides a common ground for further in depth studies on the subject Specifically it offers a comprehensive description comparative analysis and empirical performance evaluation of eleven contemporary speech parameterization methods which compute short time cepstrum based speech features Among these are five discrete wavelet packet transform DWPT based six discrete Fourier transform DFT based speech features and some of their variants which have been used on the speech recognition speaker recognition and other related speech processing tasks The main similarities and differences in their computation are discussed and empirical results from performance evaluation in common experimental conditions are presented The recognition accuracy obtained on the monophone recognition continuous speech recognition and speaker recognition tasks is contrasted against the one obtained for the well known and widely used Mel Frequency Cepstral Coefficients MFCC It is shown that many of these methods lead to speech features that do offer competitive performance on a certain speech processing setup when compared to the venerable MFCC The last does not target the promotion of certain speech features but instead aims to enhance the common understanding about the advantages and disadvantages of the various speech parameterization techniques available today and to provide the basis for selection of an appropriate speech parameterization in each particular case   **Source Modeling Techniques for Quality Enhancement in Statistical Parametric Speech Synthesis** K. Sreenivasa Rao,N. P. Narendra,2018-12-13 This book presents a statistical parametric speech synthesis SPSS framework for developing a speech synthesis system where the desired speech is generated from the parameters of vocal tract and excitation source Throughout the book the authors discuss novel source modeling techniques to enhance the naturalness and overall intelligibility of the SPSS system This book provides several important methods and models for generating the excitation source parameters for enhancing the overall quality of synthesized speech The contents of the book are useful for both researchers and system developers For researchers the book is useful for knowing the current state of the art excitation source models for SPSS and further refining the source models to incorporate the realistic semantics present in the text For system developers the book is useful to integrate the sophisticated excitation source models mentioned to the latest models of mobile smart phones   **Advance Compression and Watermarking Technique for Speech Signals** Rohit Thanki,Komal Borisagar,Surekha Borra,2017-11-03 This book introduces methods for copyright protection and compression for speech signals The first method introduces copyright protection of speech signal using watermarking the second introduces compression of the speech signal using Compressive Sensing CS Both methods are tested and analyzed The speech watermarking method uses technology such as Finite Ridgelet Transform FRT Discrete Wavelet Transform DWT and Singular Value Decomposition SVD The performance of the method is evaluated and compared with existing

watermarking methods In the speech compression method the standard Compressive Sensing CS process is used for compression of the speech signal The performance of the proposed method is evaluated using various transform bases like Discrete Fourier Transform DFT Discrete Cosine Transform DCT Discrete Wavelet Transform DWT Singular Value Decomposition SVD and Fast Discrete Curvelet Transform FDCuT **Modern Methods of Speech Processing** Ravi P. Ramachandran,Richard Mammone,2012-12-06 The term speech processing refers to the scientific discipline concerned with the analysis and processing of speech signals for getting the best benefit in various practical scenarios These different practical scenarios correspond to a large variety of applications of speech processing research Examples of some applications include enhancement coding synthesis recognition and speaker recognition A very rapid growth particularly during the past ten years has resulted due to the efforts of many leading scientists The ideal aim is to develop algorithms for a certain task that maximize performance are computationally feasible and are robust to a wide class of conditions The purpose of this book is to provide a cohesive collection of articles that describe recent advances in various branches of speech processing The main focus is in describing specific research directions through a detailed analysis and review of both the theoretical and practical settings The intended audience includes graduate students who are embarking on speech research as well as the experienced researcher already working in the field For graduate students taking a course this book serves as a supplement to the course material As the student focuses on a particular topic the corresponding set of articles in this book will serve as an initiation through exposure to research issues and by providing an extensive reference list to commence a literature survey Expe rienced researchers can utilize this book as a reference guide and can expand their horizons in this rather broad area Fractional Fourier Transform Techniques for Speech Enhancement Prajna Kunche,N. Manikanthababu,2020-04-16 This book explains speech enhancement in the Fractional Fourier Transform FRFT domain and investigates the use of different FRFT algorithms in both single channel and multi channel enhancement systems which has proven to be an ideal time frequency analysis tool in many speech signal processing applications The authors discuss the complexities involved in the highly non stationary signal processing and the concepts of FRFT for speech enhancement applications The book explains the fundamentals of FRFT as well as its implementation in speech enhancement Theories of different FRFT methods are also discussed The book lets readers understand the new fractional domains to prepare them to develop new algorithms A comprehensive literature survey regarding the topic is also made available to the reader *Ultra Low Bit-Rate Speech Coding* V. Ramasubramanian,Harish Doddala,2014-10-24 Ultra Low Bit Rate Speech Coding focuses on the specialized topic of speech coding at very low bit rates of 1 Kbits sec and less particularly at the lower ends of this range down to 100 bps The authors set forth the fundamental results and trends that form the basis for such ultra low bit rates to be viable and provide a comprehensive overview of various techniques and systems in literature to date with particular attention to their work in the paradigm of unit selection based segment quantization The book is for research students academic faculty and researchers

and industry practitioners in the areas of speech processing and speech coding   *Extraction and Representation of Prosody for Speaker, Speech and Language Recognition* Leena Mary,2011-10-17 Extraction and Representation of Prosodic Features for Speech Processing Applications deals with prosody from speech processing point of view with topics including The significance of prosody for speech processing applications Why prosody need to be incorporated in speech processing applications Different methods for extraction and representation of prosody for applications such as speech synthesis speaker recognition language recognition and speech recognition This book is for researchers and students at the graduate level

   Speech Processing in Mobile Environments K. Sreenivasa Rao,Anil Kumar Vuppala,2014-01-28 This book focuses on speech processing in the presence of low bit rate coding and varying background environments The methods presented in the book exploit the speech events which are robust in noisy environments Accurate estimation of these crucial events will be useful for carrying out various speech tasks such as speech recognition speaker recognition and speech rate modification in mobile environments The authors provide insights into designing and developing robust methods to process the speech in mobile environments Covering temporal and spectral enhancement methods to minimize the effect of noise and examining methods and models on speech and speaker recognition applications in mobile environments   Application of Wavelets in Speech Processing Mohamed Hesham Farouk,2017-11-29 This new edition provides an updated and enhanced survey on employing wavelets analysis in an array of applications of speech processing The author presents updated developments in topics such as speech enhancement noise suppression spectral analysis of speech signal speech quality assessment speech recognition forensics by Speech and emotion recognition from speech The new edition also features a new chapter on scalogram analysis of speech Moreover in this edition each chapter is restructured as such that it becomes self contained and can be read separately Each chapter surveys the literature in a topic such that the use of wavelets in the work is explained and experimental results of proposed method are then discussed Illustrative figures are also added to explain the methodology of each work   *Metaheuristic Applications to Speech Enhancement* Prajna Kunche,K.V.V.S. Reddy,2016-04-12 This book serves as a basic reference for those interested in the application of metaheuristics to speech enhancement The major goal of the book is to explain the basic concepts of optimization methods and their use in heuristic optimization in speech enhancement to scientists practicing engineers and academic researchers in speech processing The authors discuss why it has been a challenging problem for researchers to develop new enhancement algorithms that aid in the quality and intelligibility of degraded speech They present powerful optimization methods to speech enhancement that can help to solve the noise reduction problems Readers will be able to understand the fundamentals of speech processing as well as the optimization techniques how the speech enhancement algorithms are implemented by utilizing optimization methods and will be given the tools to develop new algorithms The authors also provide a comprehensive literature survey regarding the topic

   Advances in Commercial Deployment of Spoken Dialog Systems David Suendermann,2011-06-04 Advances in Commercial

Deployment of Spoken Dialog Systems covers the peculiarities of commercial deployments of spoken dialog systems from the tools standards and design principles to build them the infrastructure to deploy them techniques to monitor evaluate and analyze them and most importantly effective strategies to adapt tune and optimize them The book shows to what extent academic spoken dialog system research converges with real world applications This academic and practical synergy can be leveraged to build successful and robust spoken dialog applications that are useful when dealing with the dynamics of the ever changing future user   New Perspectives on Computational and Cognitive Strategies for Word Sense Disambiguation Oi Yee Kwong,2012-08-11 Cognitive and Computational Strategies for Word Sense Disambiguation examines cognitive strategies by humans and computational strategies by machines for WSD in parallel Focusing on a psychologically valid property of words and senses author Oi Yee Kwong discusses their concreteness or abstractness and draws on psycholinguistic data to examine the extent to which existing lexical resources resemble the mental lexicon as far as the concreteness distinction is concerned The text also investigates the contribution of different knowledge sources to WSD in relation to this very intrinsic nature of words and senses   **Cross-Word Modeling for Arabic Speech Recognition** Dia AbuZeina,Moustafa Elshafei,2011-11-25 Cross Word Modeling for Arabic Speech Recognition utilizes phonological rules in order to model the cross word problem a merging of adjacent words in speech caused by continuous speech to enhance the performance of continuous speech recognition systems The author aims to provide an understanding of the cross word problem and how it can be avoided specifically focusing on Arabic phonology using an HHM based classifier   **Dialect Accent Features for Establishing Speaker Identity** Manisha Kulshreshtha,Ramkumar Mathur,2012-03-24 Dialect Accent Features for Establishing Speaker Identity A Case Study discusses the subject of forensic voice identification and speaker profiling Specifically focusing on speaker profiling and using dialects of the Hindi language widely used in India the authors have contributed to the body of research on speaker identification by using accent feature as the discriminating factor This case study contributes to the understanding of the speaker identification process in a situation where unknown speech samples are in different language dialect than the recording of a suspect The authors data establishes that vowel quality quantity intonation and tone of a speaker as compared to Khariboli standard Hindi could be the potential features for identification of dialect accent   Human Language Technologies for Under-Resourced African Languages Moses Effiong Ekpenyong,2018-01-25 This book provides an overview of a recent and flexible approach to speech synthesis design to develop the first statistical parametric speech synthesizer for Ibibio a West African tonal language The design precludes the inflexibility encountered when modeling tonal features of the language and can be used for other tonal African languages Mobile use and technological innovations in developing African nations have exploded With mobile technology many of the barriers caused by infrastructure issues have vanished In order to address issues that are unique to African tonal languages the book uses Ibibio as a model The text reviews the language s speech characteristics required for building the front end

components of the design and propose a finite state transducer FST useful for modelling the language s tonetactics The statistical parametric approach discussed in the text implements the Hidden Markov Model HMM technique with the goal of creating a generic structure that learns the model from the text itself and uses the data driven approach to input specification   Language Identification Using Excitation Source Features K. Sreenivasa Rao,Dipanjan Nandi,2015-04-15 This book discusses the contribution of excitation source information in discriminating language The authors focus on the excitation source component of speech for enhancement of language identification LID performance Language specific features are extracted using two different modes i Implicit processing of linear prediction LP residual and ii Explicit parameterization of linear prediction residual The book discusses how in implicit processing approach excitation source features are derived from LP residual Hilbert envelope magnitude of LP residual and Phase of LP residual and in explicit parameterization approach LP residual signal is processed in spectral domain to extract the relevant language specific features The authors further extract source features from these modes which are combined for enhancing the performance of LID systems The proposed excitation source features are also investigated for LID in background noisy environments Each chapter of this book provides the motivation for exploring the specific feature for LID task and subsequently discuss the methods to extract those features and finally suggest appropriate models to capture the language specific knowledge from the proposed features Finally the book discuss about various combinations of spectral and source features and the desired models to enhance the performance of LID systems   Searching Speech Databases Leena Mary,Deekshitha G,2018-09-25 This book presents techniques for audio search aimed to retrieve information from massive speech databases by using audio query words The authors examine different features techniques and evaluation measures attempted by researchers around the world The topics covered also include available databases software tools patents copyrights and different platforms for benchmarking The content is relevant for developers academics and students   Direction of Arrival Estimation and Localization of Multi-Speech Sources Nilanjan Dey,Amira S. Ashour,2017-12-23 This book presents research and applications on arrival estimation and localization in speech processing to ensure that the broad vision of the direction of arrival estimation DOAE localization of speech sources is well established The book first provides a brief overview of the most classical direction of arrival estimation and localization techniques It then introduces the concept and model of acoustics sources and then highlights the most contemporary studies on this pervasive problem In addition the authors explore employing the optimization algorithms to improve the DOAE techniques The book then highlights the concept and principles of the multi DOAE approaches Using a microphone array the book introduces the localization and tracking problem of multiple speech acoustic sources It includes several applications and real life speech sources localization based on the DOAE approaches The book reports the challenges facing the DOAE techniques in speech sources localization The book pertains to researchers designers and engineers in speech processing fields   Advanced Applications of Natural Language Processing

for Performing Information Extraction Mário Rodrigues,António Teixeira,2015-05-06 This book explains how can be created information extraction IE applications that are able to tap the vast amount of relevant information available in natural language sources Internet pages official documents such as laws and regulations books and newspapers and social web Readers are introduced to the problem of IE and its current challenges and limitations supported with examples The book discusses the need to fill the gap between documents data and people and provides a broad overview of the technology supporting IE The authors present a generic architecture for developing systems that are able to learn how to extract relevant information from natural language documents and illustrate how to implement working systems using state of the art and freely available software tools The book also discusses concrete applications illustrating IE uses Provides an overview of state of the art technology in information extraction IE discussing achievements and limitations for the software developer and providing references for specialized literature in the area Presents a comprehensive list of freely available high quality software for several subtasks of IE and for several natural languages Describes a generic architecture that can learn how to extract information for a given application domain **Emotion, Affect and Personality in Speech** Swati Johar,2015-12-22 This book explores the various categories of speech variation and works to draw a line between linguistic and paralinguistic phenomenon of speech Paralinguistic contrast is crucial to human speech but has proven to be one of the most difficult tasks in speech systems In the quest for solutions to speech technology and sciences this book narrows down the gap between speech technologists and phoneticians and emphasizes the imperative efforts required to accomplish the goal of paralinguistic control in speech technology applications and the acute need for a multidisciplinary categorization system This interdisciplinary work on paralanguage will not only serve as a source of information but also a theoretical model for linguists sociologists psychologists phoneticians and speech researchers

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