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Todor Ganchev

Contemporary Methods for Speech Parameterization



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Prajna Kuncche,N. Manikanthababu



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

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 Experienced 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

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 *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

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

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

Predicting Prosody from Text for Text-to-Speech Synthesis K. Sreenivasa Rao, 2012-04-27 Predicting Prosody from Text for Text to Speech Synthesis covers the specific aspects of prosody mainly focusing on how to predict the prosodic information from linguistic text and then how to exploit the predicted prosodic knowledge for various speech applications Author K Sreenivasa Rao discusses proposed methods along with state of the art techniques for the acquisition and incorporation of prosodic knowledge for developing speech systems Positional contextual and phonological features are proposed for representing the linguistic and production constraints of the sound units present in the text This book is intended for graduate students and researchers working in the area of speech processing

Whispering the Strategies of Language: An Psychological Journey through **Contemporary Methods For Speech Parameterization Contemporary Methods For Speech Parameterization**

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