Jerome R. Bellegarda

Latent Semantic Mapping: Principles & Applications

Latent Semantic Mapping Principles And Applications Jerome R Bellegarda

Richard C. Hendriks,Timo Gerkmann,Jesper Jensen

Latent Semantic Mapping Principles And Applications Jerome R Bellegarda:

Latent Semantic Mapping Jerome R. Bellegarda,2007 In information retrieval Latent Semantic Mapping enables retrieval on the basis of conceptual content instead of merely matching words between queries and documents It operates under the assumption that there is some latent semantic structure in the data which is partially obscured by the randomness of word choice with respect to retrieval Algebraic and or statistical techniques are brought to bear to estimate this structure and get rid of the obscuring noise This results in a parsimonious continuous parameter description of words and documents which then replaces the original parameterization in indexing and retrieval This monograph gives a general overview of the framework and underscores the multi faceted benefits it can bring to a number of problems in natural language understanding and spoken language processing It concludes with a discussion of the inherent trade offs associated with the approach and some perspectives on its general applicability to unsupervised information extraction   Latent Semantic Mapping Jerome R. Bellegarda,2022-05-31 Latent semantic mapping LSM is a generalization of latent semantic analysis LSA a paradigm originally developed to capture hidden word patterns in a text document corpus In information retrieval LSA enables retrieval on the basis of conceptual content instead of merely matching words between queries and documents It operates under the assumption that there is some latent semantic structure in the data which is partially obscured by the randomness of word choice with respect to retrieval Algebraic and or statistical techniques are brought to bear to estimate this structure and get rid of the obscuring noise This results in a parsimonious continuous parameter description of words and documents which then replaces the original parameterization in indexing and retrieval This approach exhibits three main characteristics Discrete entities words and documents are mapped onto a continuous vector space This mapping is determined by global correlation patterns and Dimensionality reduction is an integral part of the process Such fairly generic properties are advantageous in a variety of different contexts which motivates a broader interpretation of the underlying paradigm The outcome LSM is a data driven framework for modeling meaningful global relationships implicit in large volumes of not necessarily textual data This monograph gives a general overview of the framework and underscores the multifaceted benefits it can bring to a number of problems in natural language understanding and spoken language processing It concludes with a discussion of the inherent tradeoffs associated with the approach and some perspectives on its general applicability to data driven information extraction Contents I Principles Introduction Latent Semantic Mapping LSM Feature Space Computational Effort Probabilistic Extensions II Applications Junk E mail Filtering Semantic Classification Language Modeling Pronunciation Modeling Speaker Verification TTS Unit Selection III Perspectives Discussion Conclusion Bibliography   Latent Semantic Mapping Jerome Rene Bellegarda,2007 Latent semantic mapping LSM is a generalization of latent semantic analysis LSA a paradigm originally developed to capture hidden word patterns in a text document corpus In information retrieval LSA enables retrieval on the basis of conceptual content instead of merely matching words between

queries and documents It operates under the assumption that there is some latent semantic structure in the data which is partially obscured by the randomness of word choice with respect to retrieval Algebraic and or statistical techniques are brought to bear to estimate this structure and get rid of the obscuring noise This results in a parsimonious continuous parameter description of words and documents which then replaces the original parameterization in indexing and retrieval This approach exhibits three main characteristics 1 discrete entities words and documents are mapped onto a continuous vector space 2 this mapping is determined by global correlation patterns and 3 dimensionality reduction is an integral part of the process Such fairly generic properties are advantageous in a variety of different contexts which motivates a broader interpretation of the underlying paradigm The outcome LSM is a data driven framework for modeling meaningful global relationships implicit in large volumes of not necessarily textual data This monograph gives a general overview of the framework and underscores the multifaceted benefits it can bring to a number of problems in natural language understanding and spoken language processing It concludes with a discussion of the inherent tradeoffs associated with the approach and some perspectives on its general applicability to data driven information extraction **Multi-Pitch Estimation** Mads Christensen,Andreas Jakobsson,2022-06-01 Periodic signals can be decomposed into sets of sinusoids having frequencies that are integer multiples of a fundamental frequency The problem of finding such fundamental frequencies from noisy observations is important in many speech and audio applications where it is commonly referred to as pitch estimation These applications include analysis compression separation enhancement automatic transcription and many more In this book an introduction to pitch estimation is given and a number of statistical methods for pitch estimation are presented The basic signal models and associated estimation theoretical bounds are introduced and the properties of speech and audio signals are discussed and illustrated The presented methods include both single and multi pitch estimators based on statistical approaches like maximum likelihood and maximum a posteriori methods filtering methods based on both static and optimal adaptive designs and subspace methods based on the principles of subspace orthogonality and shift invariance The application of these methods to analysis of speech and audio signals is demonstrated using both real and synthetic signals and their performance is assessed under various conditions and their properties discussed Finally the estimators are compared in terms of computational and statistical efficiency generalizability and robustness Table of Contents Fundamentals Statistical Methods Filtering Methods Subspace Methods Amplitude Estimation *DFT-Domain Based Single-Microphone Noise Reduction for Speech Enhancement* Richard C. Hendriks,Timo Gerkmann,Jesper Jensen,2022-05-31 As speech processing devices like mobile phones voice controlled devices and hearing aids have increased in popularity people expect them to work anywhere and at any time without user intervention However the presence of acoustical disturbances limits the use of these applications degrades their performance or causes the user difficulties in understanding the conversation or appreciating the device A common way to reduce the effects of such disturbances is through the use of

single microphone noise reduction algorithms for speech enhancement The field of single microphone noise reduction for speech enhancement comprises a history of more than 30 years of research In this survey we wish to demonstrate the significant advances that have been made during the last decade in the field of discrete Fourier transform domain based single channel noise reduction for speech enhancement Furthermore our goal is to provide a concise description of a state of the art speech enhancement system and demonstrate the relative importance of the various building blocks of such a system This allows the non expert DSP practitioner to judge the relevance of each building block and to implement a close to optimal enhancement system for the particular application at hand Table of Contents Introduction Single Channel Speech Enhancement General Principles DFT Based Speech Enhancement Methods Signal Model and Notation Speech DFT Estimators Speech Presence Probability Estimation Noise PSD Estimation Speech PSD Estimation Performance Evaluation Methods Simulation Experiments with Single Channel Enhancement Systems Future Directions *Acoustical Impulse Response Functions of Music Performance Halls* Douglas Frey,Rangaraj Rangayyan,Victor Coelho,2022-05-31 Digital measurement of the analog acoustical parameters of a music performance hall is difficult The aim of such work is to create a digital acoustical derivation that is an accurate numerical representation of the complex analog characteristics of the hall The present study describes the exponential sine sweep ESS measurement process in the derivation of an acoustical impulse response function AIRF of three music performance halls in Canada It examines specific difficulties of the process such as preventing the external effects of the measurement transducers from corrupting the derivation and provides solutions such as the use of filtering techniques in order to remove such unwanted effects In addition the book presents a novel method of numerical verification through mean squared error MSE analysis in order to determine how accurately the derived AIRF represents the acoustical behavior of the actual hall **Articulatory Speech Synthesis from the Fluid Dynamics of the Vocal Apparatus** Stephen Levinson,Don Davis,Scott Slimon,Jun Huang,2022-06-01 This book addresses the problem of articulatory speech synthesis based on computed vocal tract geometries and the basic physics of sound production in it Unlike conventional methods based on analysis synthesis using the well known source filter model which assumes the independence of the excitation and filter we treat the entire vocal apparatus as one mechanical system that produces sound by means of fluid dynamics The vocal apparatus is represented as a three dimensional time varying mechanism and the sound propagation inside it is due to the non planar propagation of acoustic waves through a viscous compressible fluid described by the Navier Stokes equations We propose a combined minimum energy and minimum jerk criterion to compute the dynamics of the vocal tract during articulation Theoretical error bounds and experimental results show that this method obtains a close match to the phonetic target positions while avoiding abrupt changes in the articulatory trajectory The vocal folds are set into aerodynamic oscillation by the flow of air from the lungs The modulated air stream then excites the moving vocal tract This method shows strong evidence for source filter interaction Based on our results we propose that the

articulatory speech production model has the potential to synthesize speech and provide a compact parameterization of the speech signal that can be useful in a wide variety of speech signal processing problems Table of Contents Introduction Literature Review Estimation of Dynamic Articulatory Parameters Construction of Articulatory Model Based on MRI Data Vocal Fold Excitation Models Experimental Results of Articulatory Synthesis Conclusion   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 g 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

Speech Enhancement in the Karhunen-Loeve Expansion Domain Jacob Benesty,Jingdong Chen,Yiteng Huang,2022-05-31 This book is devoted to the study of the problem of speech enhancement whose objective is the recovery of a signal of interest i e speech from noisy observations Typically the recovery process is accomplished by passing the noisy observations through a linear filter or a linear transformation Since both the desired speech and undesired noise are filtered at the same time the most critical issue of speech enhancement resides in how to design a proper optimal filter that can fully take advantage of the difference between the speech and noise statistics to mitigate the noise effect as much as possible while maintaining the speech perception identical to its original form The optimal filters can be designed either in the time domain or in a transform space As the title indicates this book will focus on developing and analyzing optimal filters in the Karhunen Lo ve expansion KLE domain We begin by describing the basic problem of speech enhancement and the fundamental principles to solve it in the time domain We then explain how the problem can be equivalently formulated in the KLE domain Next we divide the general problem in the KLE domain into four groups depending on whether interframe and interband information is accounted for leading to four linear models for speech enhancement in the KLE domain For each model we introduce signal processing measures to quantify the performance of speech enhancement discuss the formation of different cost functions and address the optimization of these cost functions for the derivation of different optimal filters Both

theoretical analysis and experiments will be provided to study the performance of these filters and the links between the KLE domain and time domain optimal filters will be examined Table of Contents Introduction Problem Formulation Optimal Filters in the Time Domain Linear Models for Signal Enhancement in the KLE Domain Optimal Filters in the KLE Domain with Model 1 Optimal Filters in the KLE Domain with Model 2 Optimal Filters in the KLE Domain with Model 3 Optimal Filters in the KLE Domain with Model 4 Experimental Study **Speech Recognition Algorithms Using Weighted Finite-State Transducers** Takaaki Hori,Atsushi Nakamura,2022-05-31 This book introduces the theory algorithms and implementation techniques for efficient decoding in speech recognition mainly focusing on the Weighted Finite State Transducer WFST approach The decoding process for speech recognition is viewed as a search problem whose goal is to find a sequence of words that best matches an input speech signal Since this process becomes computationally more expensive as the system vocabulary size increases research has long been devoted to reducing the computational cost Recently the WFST approach has become an important state of the art speech recognition technology because it offers improved decoding speed with fewer recognition errors compared with conventional methods However it is not easy to understand all the algorithms used in this framework and they are still in a black box for many people In this book we review the WFST approach and aim to provide comprehensive interpretations of WFST operations and decoding algorithms to help anyone who wants to understand develop and study WFST based speech recognizers We also mention recent advances in this framework and its applications to spoken language processing Table of Contents Introduction Brief Overview of Speech Recognition Introduction to Weighted Finite State Transducers Speech Recognition by Weighted Finite State Transducers Dynamic Decoders with On the fly WFST Operations Summary and Perspective **A Perspective on Single-Channel Frequency-Domain Speech Enhancement** Jacob Benesty,Yiteng Huang,2022-05-31 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 Table of Contents Introduction Problem Formulation Performance Measures Linear and Widely Linear Models Optimal Filters with Model 1 Optimal Filters with Model 2 Optimal Filters with Model 3 Optimal Filters with Model 4 Experimental Study   **Literary Mathematics** Michael Gavin,2022-10-25 Across the humanities and social sciences scholars increasingly use quantitative methods to study textual data Considered together this research represents an extraordinary event in the long history of textuality More or less all at once the corpus has emerged as a major genre of cultural and scientific knowledge In Literary Mathematics Michael Gavin grapples with this development describing how quantitative methods for the study of textual data offer powerful tools for historical inquiry and sometimes unexpected perspectives on theoretical issues of concern to literary studies Student friendly and accessible the book advances this argument through case studies drawn from the Early English Books Online corpus Gavin shows how a copublication network of printers and authors reveals an uncannily accurate picture of historical periodization that a vector space semantic model parses historical concepts in incredibly fine detail and that a geospatial analysis of early modern discourse offers a surprising panoramic glimpse into the period s notion of world geography Across these case studies Gavin challenges readers to consider why corpus based methods work so effectively and asks whether the successes of formal modeling ought to inspire humanists to reconsider fundamental theoretical assumptions about textuality and meaning As Gavin reveals by embracing the expressive power of mathematics scholars can add new dimensions to digital humanities research and find new connections with the social sciences

Unveiling the Magic of Words: A Review of "**Latent Semantic Mapping Principles And Applications Jerome R Bellegarda**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Latent Semantic Mapping Principles And Applications Jerome R Bellegarda**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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