

**Signals
and
Communication
Technology**

**S. Makino
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Blind Speech Separation

 **Springer**

Blind Speech Separation Signals And Communication Technology

Wenbin Ji



Blind Speech Separation Signals And Communication Technology:

Blind Speech Separation Shoji Makino, Te-Won Lee, Hiroshi Sawada, 2007-09-07 We are surrounded by sounds. Such a noisy environment makes it difficult to obtain desired speech and it is difficult to converse comfortably there. This makes it important to be able to separate and extract a target speech signal from noisy observations for both man-machine and human-human communication. Blind source separation (BSS) is an approach for estimating source signals using only information about their mixtures observed in each input channel. The estimation is performed without possessing information on each source such as its frequency characteristics and location or on how the sources are mixed. The use of BSS in the development of comfortable acoustic communication channels between humans and machines is widely accepted. Some books have been published on BSS, independent component analysis (ICA) and related subjects. There, ICA-based BSS has been well studied in the statistics and information theory fields for applications to a variety of disciplines including wireless communication and biomedicine. However, as speech and audio signal mixtures in a real reverberant environment are generally convolutive mixtures, they involve a structurally much more challenging task than instantaneous mixtures, which are prevalent in many other applications.

Blind Source Separation Ganesh R. Naik, Wenwu Wang, 2014-05-21 Blind Source Separation intends to report the new results of the efforts on the study of Blind Source Separation (BSS). The book collects novel research ideas and some training in BSS, independent component analysis (ICA), artificial intelligence, and signal processing applications. Furthermore, the research results previously scattered in many journals and conferences worldwide are methodically edited and presented in a unified form. The book is likely to be of interest to university researchers. R. Dr. Wenwu Wang works at University of Surrey, UK.

Latent Variable Analysis and Signal Separation Fabian Theis, Andrzej Cichocki, Arie Yeredor, Michael Zibulevsky, 2012-03-01 This book constitutes the proceedings of the 10th International Conference on Latent Variable Analysis and Signal Separation (LVA/ICA 2012) held in Tel Aviv, Israel, in March 2012. The 20 revised full papers presented together with 42 revised poster papers, 1 keynote lecture, and 2 overview papers for the regular as well as for the special session were carefully reviewed and selected from numerous submissions. Topics addressed are ranging from theoretical issues such as causality analysis and measures through novel methods for employing the well-established concepts of sparsity and non-negativity for matrix and tensor factorization down to a variety of related applications ranging from audio and biomedical signals to precipitation analysis.

Latent Variable Analysis and Signal Separation Yannick Deville, Sharon Gannot, Russell Mason, Mark D. Plumbley, Dominic Ward, 2018-06-05 This book constitutes the proceedings of the 14th International Conference on Latent Variable Analysis and Signal Separation (LVA/ICA 2018) held in Guildford, UK, in July 2018. The 52 full papers were carefully reviewed and selected from 62 initial submissions. As research topics, the papers encompass a wide range of general mixtures of latent variables models but also theories and tools drawn from a great variety of disciplines such as structured tensor decompositions and applications, matrix and tensor factorizations, ICA methods.

nonlinear mixtures audio data and methods signal separation evaluation campaign deep learning and data driven methods advances in phase retrieval and applications sparsity related methods and biomedical data and methods Latent Variable Analysis and Signal Separation Emmanuel Vincent,Arie Yeredor,Zbyněk Koldovský,Petr Tichavský,2015-08-14 This book constitutes the proceedings of the 12th International Conference on Latent Variable Analysis and Signal Separation LVA ICS 2015 held in Liberec Czech Republic in August 2015 The 61 revised full papers presented 29 accepted as oral presentations and 32 accepted as poster presentations were carefully reviewed and selected from numerous submissions Five special topics are addressed tensor based methods for blind signal separation deep neural networks for supervised speech separation enhancement joint analysis of multiple datasets data fusion and related topics advances in nonlinear blind source separation sparse and low rank modeling for acoustic signal processing *Audio Source Separation* Shoji Makino,2018-03-01 This book provides the first comprehensive overview of the fascinating topic of audio source separation based on non negative matrix factorization deep neural networks and sparse component analysis The first section of the book covers single channel source separation based on non negative matrix factorization NMF After an introduction to the technique two further chapters describe separation of known sources using non negative spectrogram factorization and temporal NMF models In section two NMF methods are extended to multi channel source separation Section three introduces deep neural network DNN techniques with chapters on multichannel and single channel separation and a further chapter on DNN based mask estimation for monaural speech separation In section four sparse component analysis SCA is discussed with chapters on source separation using audio directional statistics modelling multi microphone MMSE based techniques and diffusion map methods The book brings together leading researchers to provide tutorial like and in depth treatments on major audio source separation topics with the objective of becoming the definitive source for a comprehensive authoritative and accessible treatment This book is written for graduate students and researchers who are interested in audio source separation techniques based on NMF DNN and SCA *Service Science* Xuanzhe Liu,Pengcheng Zhang,Yutao Ma,2025-10-27 This book includes the revised selected papers presented at the CCF 18th International Conference on Service Science ICSS 2025 held in Nanjing China during May 9 11 2025 The 21 full papers and 11 short papers presented here were carefully reviewed and selected from 74 submissions These papers have been categorized into the following sections Service Recommendation and Discovery Cloud Service and Edge Service Machine Learning Deep Learning Technologies for Services Blockchain and Service Security Service Systems and Applications *Information Technology and Mobile Communication* Vinu V Das,Gylson Thomas,Ford Lumban Gaol,2011-04-11 This book constitutes the refereed proceedings of the International Conference on Advances in Information Technology and Mobile Communication AIM 2011 held at Nagpur India in April 2011 The 31 revised full papers presented together with 27 short papers and 34 poster papers were carefully reviewed and selected from 313 submissions The papers cover all current issues in theory practices and

applications of Information Technology Computer and Mobile Communication Technology and related topics **Advances in Nonlinear Speech Processing** Carlos M. Travieso-González, Jesús Alonso-Hernández, 2011-11-03 This book constitutes the proceedings of the 5th International Conference on Nonlinear Speech Processing NoLISP 2011 held in Las Palmas de Gran Canaria Spain in November 2011 The purpose of the workshop is to present and discuss new ideas techniques and results related to alternative approaches in speech processing that may depart from the main stream The 33 papers presented together with 2 keynote talks were carefully reviewed and selected for inclusion in this book The topics of NOLISP 2011 were non linear approximation and estimation non linear oscillators and predictors higher order statistics independent component analysis nearest neighbors neural networks decision trees non parametric models dynamics of non linear systems fractal methods chaos modeling and non linear differential equations **Speech Enhancement, Modeling and Recognition- Algorithms and Applications** S. Ramakrishnan, 2012-03-14 This book on Speech Processing consists of seven chapters written by eminent researchers from Italy Canada India Tunisia Finland and The Netherlands The chapters covers important fields in speech processing such as speech enhancement noise cancellation multi resolution spectral analysis voice conversion speech recognition and emotion recognition from speech The chapters contain both survey and original research materials in addition to applications This book will be useful to graduate students researchers and practicing engineers working in speech processing

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