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### **Blind Speech Separation**

Blind Speech Separation is divided into three parts: Part 1 presents overdetermined or critically determined BSS. Here the main technology is independent component analysis (ICA).

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ICA is a statistical method for extracting mutually independent sources from their mixtures.

## **Blind Speech Separation (Signals and Communication ...**

Blind Speech Separation is divided into three parts: Part 1 presents overdetermined or critically determined

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BSS. Here the main technology is independent component analysis (ICA). ICA is a statistical method for extracting mutually independent sources from their mixtures.

**Blind Speech Separation | Shoji Makino | Springer**

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## **SpringerLink**

Blind Speech Separation (Signals and Communication Technology) Shoji Makino , Te-Won Lee , Hiroshi Sawada  
This is the world's first edited book on independent component analysis (ICA)-based blind source separation (BSS) of convolutive mixtures of speech.



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## **Blind Speech Separation (Signals and Communication ...**

We introduce a blind source separation algorithm named GCCNMF that combines unsupervised dictionary learning via nonnegative matrix factorization (NMF) with spatial localization via the generalized cross correlation (GCC) method.

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## **[PDF] Blind Speech Separation with GCC-NMF | Semantic Scholar**

Independent Vector Analysis (IVA) is shown to be an effective Blind Speech Separation (BSS) method for convolutive mixtures as it inherently solves the permutation problem that many other ...

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## **Blind Speech Separation | Request PDF**

U-Net. Contribute to shun60s/Blind-Speech-Separation development by creating an account on GitHub.

**GitHub - shun60s/Blind-Speech-Separation: U-Net ...**

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Blind speech separation employing directional statistics in an Expectation Maximization framework Abstract: In this paper we propose to employ directional statistics in a complex vector space to approach the problem of blind speech separation in the presence of spatially correlated noise.

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## **Blind speech separation employing directional statistics ...**

GCC-NMF is a blind source separation and denoising algorithm that combines the GCC spatial localization method with the NMF unsupervised dictionary learning algorithm. GCC-NMF has been used for stereo speech separation and enhancement in both offline and real-

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time settings.

## **GitHub - seanwood/gcc-nmf: Real-time GCC-NMF Blind Speech ...**

Separation quality is evaluated for three tasks using stereo recordings from the publicly available SiSEC signal separation evaluation campaign: 3 and 4 concurrent speakers in reverberant

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environments, speech mixed with real-world background noise, and noisy recordings of a moving speaker.

## **Blind Speech Separation and Enhancement With GCC-NMF ...**

Blind Speech Separation and Enhancement With GCC-NMF Abstract: We present a blind source separation

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algorithm named GCC-NMF that combines unsupervised dictionary learning via non-negative matrix factorization (NMF) with spatial localization via the generalized cross correlation (GCC) method.

**Blind Speech Separation and Enhancement With GCC-NMF ...**



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Blind Separation of Speech Mixtures via Time-Frequency Masking Ozgür Yılmaz and Scott Rickard.

Abstract—Binary time-frequency masks are a powerful tool for the separation of sources from a single mixture.

## **Blind Separation of Speech Mixtures via Time-Frequency Masking**

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Blind one-microphone speech separation: A spectral learning approach. Francis R. Bach Computer Science University of California Berkeley, CA 94720 fbach@cs.berkeley.edu  
Michael I. Jordan Computer Science and Statistics University of California Berkeley, CA 94720 jordan@cs.berkeley.edu. Abstract.

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## **Blind one-microphone speech separation: A spectral ...**

This paper presents a front-end enhancement system for automatic speech recognition to address the cocktail party problem. Cocktail party problem is focus on recognizing the target speech when multiple speakers

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talk in the noisy real-environments. Many conventional techniques have been proposed. In this work, we propose a new framework to integrate the conventional blind source separation and ...

**Mask-based blind source separation and MVDR beamforming in ...**

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A Very Short Introduction to Blind Source Separation a.k.a. How You Will Definitely Enjoy Differently a Cocktail Party Matthieu Puigt Foundation for Research and Technology - Hellas

## **A Very Short Introduction to Blind Source Separation**

In this paper we propose a new Blind

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Separation method for speech signals in the wavelet domain. Our approach consists in transforming the basic speech separation problem into the wavelet domain ...

## **(PDF) BLIND SPEECH SEPARATION USING WAVELET DECOMPOSITION**

permutation problem, namely blind

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speech separation and speech extraction. With blind speech separation, the permutation problem is usually handled by a specially designed training objective that is invariant to the order of the output. Deep clustering (DC) [1, 2] and permutation invariant training (PIT) [3, 4] are two representative approaches.

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## **SPEECH SEPARATION USING SPEAKER INVENTORY**

Get this from a library! Blind speech separation. [S Makino; Te-Won Lee; Hiroshi Sawada;] -- "This is the first book to provide a cutting edge reference to the fascinating topic of blind source separation (BSS) for convolved speech



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