

SPRINGER BRIEFS IN ELECTRICAL AND
COMPUTER ENGINEERING - SIGNAL PROCESSING

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Blind Source Separation Dependent Component Analysis

Blind Source Separation Dependent Component Analysis **Springerbriefs In Electrical And Computer Engineering**

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Yang**



Blind Source Separation Dependent Component Analysis Springerbriefs In Electrical And Computer Engineering:

Blind Source Separation Yong Xiang,Dezhong Peng,Zuyuan Yang,2014-09-16 This book provides readers a complete and self contained set of knowledge about dependent source separation including the latest development in this field The book gives an overview on blind source separation where three promising blind separation techniques that can tackle mutually correlated sources are presented The book further focuses on the non negativity based methods the time frequency analysis based methods and the pre coding based methods respectively

Nonlinear Blind Source Separation and Blind Mixture Identification Yannick Deville,Leonardo Tomazeli Duarte,Shahram Hosseini,2021-02-02 This book provides a detailed survey of the methods that were recently developed to handle advanced versions of the blind source separation problem which involve several types of nonlinear mixtures Another attractive feature of the book is that it is based on a coherent framework More precisely the authors first present a general procedure for developing blind source separation methods Then all reported methods are defined with respect to this procedure This allows the reader not only to more easily follow the description of each method but also to see how these methods relate to one another The coherence of this book also results from the fact that the same notations are used throughout the chapters for the quantities source signals and so on that are used in various methods Finally among the quite varied types of processing methods that are presented in this book a significant part of this description is dedicated to methods based on artificial neural networks especially recurrent ones which are currently of high interest to the data analysis and machine learning community in general beyond the more specific signal processing and blind source separation communities

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

[Handbook of Blind Source Separation](#) Pierre Comon,Christian Jutten,2010 Edited by the people who were forerunners in creating the field together with contributions from 34 leading international experts this handbook provides the definitive reference on Blind Source Separation giving a broad and comprehensive description of all the core principles and methods numerical algorithms and major applications in the fields of telecommunications biomedical engineering and audio acoustic and speech processing Going beyond a machine learning perspective the book reflects recent results in signal processing and numerical analysis and includes topics such as optimization criteria mathematical tools the design of numerical algorithms convolutive mixtures and time frequency approaches This Handbook is an ideal reference for university researchers R algebraic identification of under determined mixtures time frequency methods Bayesian approaches blind identification under non negativity

approaches semi blind methods for communications Shows the applications of the methods to key application areas such as telecommunications biomedical engineering speech acoustic audio and music processing while also giving a general method for developing applications

Blind Separation of Convolved Sources Using the Independent Component Analysis and Information Maximization Approach Md Hasanuzzaman,2005 **Some Studies on Independent Component Analysis and Blind Source Separation** □□□,2012 **Independent Component Analysis and Blind Source Separation** ,2007

Independent Component Analysis with Applications to Blind Source Separation Frank Herrmann,University of Liverpool,2000 *Special Issue Independent Component Analysis and Blind Source Separation* Allan Kardec Barros,2007
Blind Source Separation ,2005

Unveiling the Magic of Words: A Review of "**Blind Source Separation Dependent Component Analysis Springerbriefs In Electrical And Computer Engineering**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Blind Source Separation Dependent Component Analysis Springerbriefs In Electrical And Computer Engineering**," a mesmerizing literary masterpiece penned by way of 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 to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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