



Blind Identification and Separation of Complex-valued Signals

Eric Moreau, Tulay Adali

Download now

[Click here](#) if your download doesn't start automatically

Blind Identification and Separation of Complex-valued Signals

Eric Moreau, Tulay Adali

Blind Identification and Separation of Complex-valued Signals Eric Moreau, Tulay Adali

Blind identification consists of estimating a multi-dimensional system only through the use of its output, and source separation, the blind estimation of the inverse of the system. Estimation is generally carried out using different statistics of the output.

The authors of this book consider the blind identification and source separation problem in the complex-domain, where the available statistical properties are richer and include non-circularity of the sources – underlying components. They define identifiability conditions and present state-of-the-art algorithms that are based on algebraic methods as well as iterative algorithms based on maximum likelihood theory.

Contents

1. Mathematical Preliminaries.
2. Estimation by Joint Diagonalization.
3. Maximum Likelihood ICA.

About the Authors

Eric Moreau is Professor of Electrical Engineering at the University of Toulon, France. His research interests concern statistical signal processing, high order statistics and matrix/tensor decompositions with applications to data analysis, telecommunications and radar.

Tülay Adali is Professor of Electrical Engineering and Director of the Machine Learning for Signal Processing Laboratory at the University of Maryland, Baltimore County, USA. Her research interests concern statistical and adaptive signal processing, with an emphasis on nonlinear and complex-valued signal processing, and applications in biomedical data analysis and communications.

Blind identification consists of estimating a multidimensional system through the use of only its output. Source separation is concerned with the blind estimation of the inverse of the system. The estimation is generally performed by using different statistics of the outputs.

The authors consider the blind estimation of a multiple input/multiple output (MIMO) system that mixes a number of underlying signals of interest called sources. They also consider the case of direct estimation of the inverse system for the purpose of source separation. They then describe the estimation theory associated with the identifiability conditions and dedicated algebraic algorithms. The algorithms depend critically on (statistical and/or time frequency) properties of complex sources that will be precisely described.

 [Download Blind Identification and Separation of Complex-val ...pdf](#)

 [Read Online Blind Identification and Separation of Complex-v ...pdf](#)

Download and Read Free Online Blind Identification and Separation of Complex-valued Signals Eric Moreau, Tulay Adali

From reader reviews:

Leticia Cantrell:

Do you have favorite book? Should you have, what is your favorite's book? Book is very important thing for us to learn everything in the world. Each e-book has different aim or perhaps goal; it means that guide has different type. Some people truly feel enjoy to spend their the perfect time to read a book. These are reading whatever they take because their hobby is definitely reading a book. What about the person who don't like examining a book? Sometime, man feel need book once they found difficult problem or perhaps exercise. Well, probably you will require this Blind Identification and Separation of Complex-valued Signals.

Rodney Hussey:

This Blind Identification and Separation of Complex-valued Signals book is not really ordinary book, you have after that it the world is in your hands. The benefit you will get by reading this book is information inside this e-book incredible fresh, you will get facts which is getting deeper an individual read a lot of information you will get. This kind of Blind Identification and Separation of Complex-valued Signals without we realize teach the one who reading it become critical in pondering and analyzing. Don't end up being worry Blind Identification and Separation of Complex-valued Signals can bring when you are and not make your bag space or bookshelves' come to be full because you can have it in your lovely laptop even cellphone. This Blind Identification and Separation of Complex-valued Signals having great arrangement in word and also layout, so you will not really feel uninterested in reading.

Patricia Gagliano:

The publication with title Blind Identification and Separation of Complex-valued Signals has a lot of information that you can learn it. You can get a lot of benefit after read this book. This particular book exist new expertise the information that exist in this book represented the condition of the world right now. That is important to yo7u to know how the improvement of the world. This kind of book will bring you in new era of the globalization. You can read the e-book with your smart phone, so you can read the idea anywhere you want.

Wm Mills:

Are you kind of occupied person, only have 10 as well as 15 minute in your day to upgrading your mind talent or thinking skill actually analytical thinking? Then you are experiencing problem with the book in comparison with can satisfy your short time to read it because all this time you only find publication that need more time to be read. Blind Identification and Separation of Complex-valued Signals can be your answer as it can be read by an individual who have those short free time problems.

Download and Read Online Blind Identification and Separation of Complex-valued Signals Eric Moreau, Tulay Adali #TJY8HU59EIA

Read Blind Identification and Separation of Complex-valued Signals by Eric Moreau, Tulay Adali for online ebook

Blind Identification and Separation of Complex-valued Signals by Eric Moreau, Tulay Adali Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Blind Identification and Separation of Complex-valued Signals by Eric Moreau, Tulay Adali books to read online.

Online Blind Identification and Separation of Complex-valued Signals by Eric Moreau, Tulay Adali ebook PDF download

Blind Identification and Separation of Complex-valued Signals by Eric Moreau, Tulay Adali Doc

Blind Identification and Separation of Complex-valued Signals by Eric Moreau, Tulay Adali Mobipocket

Blind Identification and Separation of Complex-valued Signals by Eric Moreau, Tulay Adali EPub