

Adaptive Blind Signal and Image Processing

**Learning Algorithms
and Applications**

Adaptive Blind Signal And Image Processing

Andrzej Cichocki, Shun-ichi Amari



Adaptive Blind Signal And Image Processing:

Adaptive Blind Signal and Image Processing Andrzej Cichocki, Shun-ichi Amari, 2002-06-14 With solid theoretical foundations and numerous potential applications Blind Signal Processing BSP is one of the hottest emerging areas in Signal Processing This volume unifies and extends the theories of adaptive blind signal and image processing and provides practical and efficient algorithms for blind source separation Independent Principal Minor Component Analysis and Multichannel Blind Deconvolution MBD and Equalization Containing over 1400 references and mathematical expressions Adaptive Blind Signal and Image Processing delivers an unprecedented collection of useful techniques for adaptive blind signal image separation extraction decomposition and filtering of multi variable signals and data Offers a broad coverage of blind signal processing techniques and algorithms both from a theoretical and practical point of view Presents more than 50 simple algorithms that can be easily modified to suit the reader s specific real world problems Provides a guide to fundamental mathematics of multi input multi output and multi sensory systems Includes illustrative worked examples computer simulations tables detailed graphs and conceptual models within self contained chapters to assist self study Accompanying CD ROM features an electronic interactive version of the book with fully coloured figures and text C and MATLAB user friendly software packages are also provided MATLAB is a registered trademark of The MathWorks Inc By providing a detailed introduction to BSP as well as presenting new results and recent developments this informative and inspiring work will appeal to researchers postgraduate students engineers and scientists working in biomedical engineering communications electronics computer science optimisations finance geophysics and neural networks

Adaptive blind signal and image processing

Andrzej Cichocki, Shun-ichi Amari, 2003 *Adaptive Blind Signal and Image Processing* Andrzej Cichocki, Shun-Ichi Amari, Anh Huy Phan, Rafal Zdunek, 2018-03-09 This book is a unification and extension of the theories behind adaptive blind signal and image processing providing practical and efficient algorithms for many different and novel applications including the latest developments and additional material not included in the first edition This includes new material on multiway analysis sparse representation and dictionary learning including tensor dictionary learning and sparse representation singular spectrum analysis informed source representation compressive sensing analysis modes such as independent vector latent variable and sparse component analysis among many other significant updates Accompanying the book is a host of MATLAB examples code and executable programs to enhance understanding of the novel techniques employed in BSP

Artificial Intelligence and Soft Computing — ICAISC 2004 Leszek Rutkowski, Jörg Siekmann, Ryszard Tadeusiewicz, Lotfi A. Zadeh, 2004-06-01 This book constitutes the refereed proceedings of the 7th International Conference on Artificial Intelligence and Soft Computing ICAISC 2004 held in Zakopane Poland in June 2004 The 172 revised contributed papers presented together with 17 invited papers were carefully reviewed and selected from 250 submissions The papers are organized in topical sections on neural networks fuzzy systems evolutionary algorithms rough sets soft computing in classification image processing robotics

multiagent systems problems in AI intelligent control modeling and system identification medical applications mechanical applications and applications in various fields

Independent Component Analysis and Blind Signal Separation Carlos G. Puntonet, 2004-09-17 In many situations found both in Nature and in human built systems a set of mixed signals is observed frequently also with noise and it is of great scientific and technological relevance to be able to isolate or separate them so that the information in each of the signals can be utilized

Blind source separation BSS research is one of the more interesting emerging fields nowadays in the field of signal processing. It deals with the algorithms that allow the recovery of the original sources from a set of mixtures only. The adjective blind is applied because the purpose is to estimate the original sources without any a priori knowledge about either the sources or the mixing system. Most of the models employed in BSS assume the hypothesis about the independence of the original sources. Under this hypothesis a BSS problem can be considered as a particular case of independent component analysis. ICA, a linear transformation technique that starting from a multivariate representation of the data minimizes the statistical dependence between the components of the representation. It can be claimed that most of the advances in ICA have been motivated by the search for solutions to the BSS problem and the other way around. Advances in ICA have been immediately applied to BSS. ICA and BSS algorithms start from a mixture model whose parameters are estimated from the observed mixtures. Separation is achieved by applying the inverse mixture model to the observed signals separating or unmixing model. Mixture models usually fall into three broad categories: instantaneous linear models, convolutive models, and nonlinear models, the first being the simplest but in general not near realistic applications. The development and test of the algorithms can be accomplished through synthetic data or with real world data. Obviously the most important aim and most difficult is the separation of real world mixtures. BSS and ICA have strong relations also apart from signal processing with other fields such as statistics and artificial neural networks. As long as we can find a system that emits signals propagated through a medium and those signals are received by a set of sensors and there is an interest in recovering the original sources we have a potential field of application for BSS and ICA. Inside that wider range of applications we can find for instance noise reduction applications, biomedical applications, audio systems, telecommunications, and many others. This volume comes out just 20 years after the first contributions in ICA and BSS. It appeared. Thereafter the number of research groups working in ICA and BSS has been constantly growing so that nowadays we can estimate that far more than 100 groups are researching in these fields. As proof of the recognition among the scientific community of ICA and BSS developments there have been numerous special sessions and special issues in several well known journals.

Signals and Images Rosângela Fernandes Coelho, Vitor Heloiz Nascimento, Ricardo Lopes de Queiroz, João Marcos Travassos Romano, Charles Casimiro Cavalcante, 2018-09-03 Signals and Images Advances and Results in Speech Estimation Compression Recognition Filtering and Processing cohesively combines contributions from field experts

to deliver a comprehensive account of the latest developments in signal processing These experts detail the results of their research related to audio and speech enhancement acoustic image estimation video compression biometric recognition hyperspectral image analysis tensor decomposition with applications in communications adaptive sparse interpolated filtering signal processing for power line communications bio inspired signal processing seismic data processing arithmetic transforms for spectrum computation particle filtering in cooperative networks three dimensional television and more This book not only shows how signal processing theory is applied in current and emerging technologies but also demonstrates how to tackle key problems such as how to enhance speech in the time domain improve audio quality and meet the desired electrical consumption target for controlling carbon emissions Signals and Images Advances and Results in Speech Estimation Compression Recognition Filtering and Processing serves as a guide to the next generation of signal processing solutions for speech and video coding hearing aid devices big data processing smartphones smart digital communications acoustic sensors and beyond

Latent Variable Analysis and Signal Separation Petr Tichavský, Massoud Babaie-Zadeh, Olivier J.J. Michel, Nadège Thirion-Moreau, 2017-02-13 This book constitutes the proceedings of the 13th International Conference on Latent Variable Analysis and Signal Separation LVA ICA 2017 held in Grenoble France in February 2017 The 53 papers presented in this volume were carefully reviewed and selected from 60 submissions They were organized in topical sections named tensor approaches from source positions to room properties learning methods for audio scene geometry estimation tensors and audio audio signal processing theoretical developments physics and bio signal processing latent variable analysis in observation sciences ICA theory and applications and sparsity aware signal processing

Unsupervised Signal Processing João Marcos Travassos Romano, Romis Attux, Charles Casimiro Cavalcante, Ricardo Suyama, 2018-09-03 Unsupervised Signal Processing Channel Equalization and Source Separation provides a unified systematic and synthetic presentation of the theory of unsupervised signal processing Always maintaining the focus on a signal processing oriented approach this book describes how the subject has evolved and assumed a wider scope that covers several topics from well established blind equalization and source separation methods to novel approaches based on machine learning and bio inspired algorithms From the foundations of statistical and adaptive signal processing the authors explore and elaborate on emerging tools such as machine learning based solutions and bio inspired methods With a fresh take on this exciting area of study this book Provides a solid background on the statistical characterization of signals and systems and on linear filtering theory Emphasizes the link between supervised and unsupervised processing from the perspective of linear prediction and constrained filtering theory Addresses key issues concerning equilibrium solutions and equivalence relationships in the context of unsupervised equalization criteria Provides a systematic presentation of source separation and independent component analysis Discusses some instigating connections between the filtering problem and computational intelligence approaches Building on more than a decade of the authors work at DSPCom laboratory this book applies a fresh

conceptual treatment and mathematical formalism to important existing topics The result is perhaps the first unified presentation of unsupervised signal processing techniques one that addresses areas including digital filters adaptive methods and statistical signal processing With its remarkable synthesis of the field this book provides a new vision to stimulate progress and contribute to the advent of more useful efficient and friendly intelligent systems **Wideband Beamforming**

Wei Liu,Stephan Weiss,2010-03-18 This book provides an excellent reference for all professionals working in the area of array signal processing and its applications in wireless communications Wideband beamforming has advanced with the increasing bandwidth in wireless communications and the development of ultra wideband UWB technology In this book the authors address the fundamentals and most recent developments in the field of wideband beamforming The book provides a thorough coverage of the subject including major sub areas such as sub band adaptive beamforming frequency invariant beamforming blind wideband beamforming beamforming without temporal processing and beamforming for multi path signals Key Features Unique book focusing on wideband beamforming Discusses a hot topic coinciding with the increasing bandwidth in wireless communications and the development of UWB technology Addresses the general concept of beamforming including fixed beamformers and adaptive beamformers Covers advanced topics including sub band adaptive beamforming frequency invariant beamforming blind wideband beamforming beamforming without temporal processing and beamforming for multi path signals Includes various design examples and corresponding complexity analyses This book provides a reference for engineers and researchers in wireless communications and signal processing fields Postgraduate students studying signal processing will also find this book of interest *Fuzzy Information and Engineering* Bing-Yuan Cao,2007-04-27 The Second International Conference on Fuzzy Information and Engineering ICFIE2007 is a major symposium for scientists engineers and practitioners in China as well as the world to present their latest results ideas developments and applications in all areas of fuzzy information and knowledge engineering It aims to strengthen relations between industry research laboratories and universities and to create a primary symposium for world scientists

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