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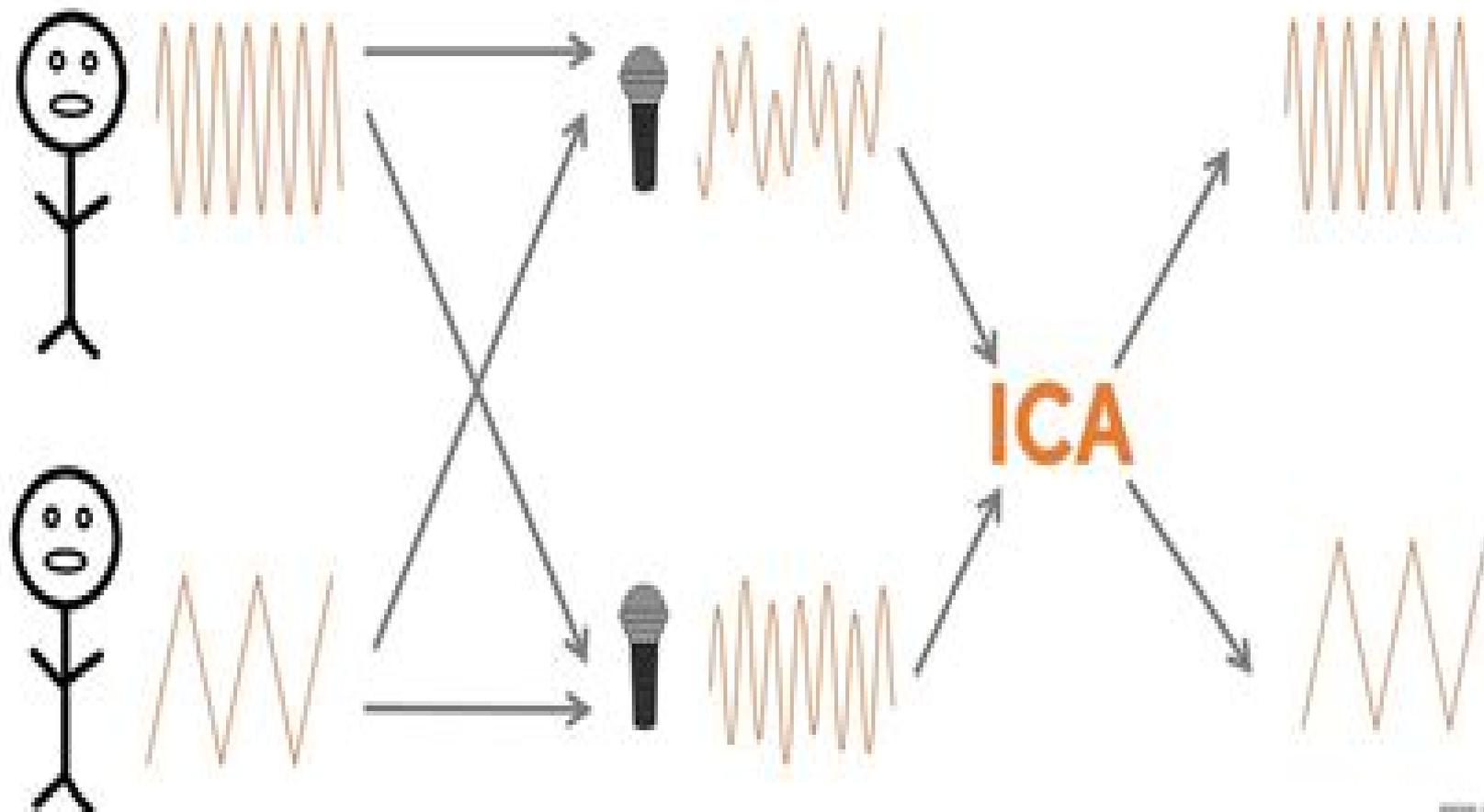
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Zhen Yu Du,Bin Liu

Advances In Independent Component Analysis:

    Advances in Independent Component Analysis Mark Girolami,2012-12-06 Independent Component Analysis ICA is a fast developing area of intense research interest Following on from Self Organising Neural Networks Independent Component Analysis and Blind Signal Separation this book reviews the significant developments of the past year It covers topics such as the use of hidden Markov methods the independence assumption and topographic ICA and includes tutorial chapters on Bayesian and variational approaches It also provides the latest approaches to ICA problems including an investigation into certain hard problems for the very first time Comprising contributions from the most respected and innovative researchers in the field this volume will be of interest to students and researchers in computer science and electrical engineering research and development personnel in disciplines such as statistical modelling and data analysis bio informatic workers and physicists and chemists requiring novel data analysis methods **Advances in Independent Component Analysis and Learning Machines** Ella Bingham,Samuel Kaski,Jorma Laaksonen,Jouko Lampinen,2015-05-14 In honour of Professor Erkki Oja one of the pioneers of Independent Component Analysis ICA this book reviews key advances in the theory and application of ICA as well as its influence on signal processing pattern recognition machine learning and data mining Examples of topics which have developed from the advances of ICA which are covered in the book are A unifying probabilistic model for PCA and ICA Optimization methods for matrix decompositions Insights into the FastICA algorithm Unsupervised deep learning Machine vision and image retrieval A review of developments in the theory and applications of independent component analysis and its influence in important areas such as statistical signal processing pattern recognition and deep learning A diverse set of application fields ranging from machine vision to science policy data Contributions from leading researchers in the field *Independent Component Analysis* Aapo Hyvärinen,Juha Karhunen,Erkki Oja,2001-06-01 A comprehensive introduction to ICA for students and practitioners Independent Component Analysis ICA is one of the most exciting new topics in fields such as neural networks advanced statistics and signal processing This is the first book to provide a comprehensive introduction to this new technique complete with the fundamental mathematical background needed to understand and utilize it It offers a general overview of the basics of ICA important solutions and algorithms and in depth coverage of new applications in image processing telecommunications audio signal processing and more Independent Component Analysis is divided into four sections that cover General mathematical concepts utilized in the book The basic ICA model and its solution Various extensions of the basic ICA model Real world applications for ICA models Authors Hyvarinen Karhunen and Oja are well known for their contributions to the development of ICA and here cover all the relevant theory new algorithms and applications in various fields Researchers students and practitioners from a variety of disciplines will find this accessible volume both helpful and informative Independent Component Analysis Stephen Roberts,Richard Everson,2001-03 Independent Component Analysis ICA has recently become an important tool for modelling and

understanding empirical datasets It is a method of separating out independent sources from linearly mixed data and belongs to the class of general linear models ICA provides a better decomposition than other well known models such as principal component analysis This self contained book contains a structured series of edited papers by leading researchers in the field including an extensive introduction to ICA The major theoretical bases are reviewed from a modern perspective current developments are surveyed and many case studies of applications are described in detail The latter include biomedical examples signal and image denoising and mobile communications ICA is discussed in the framework of general linear models but also in comparison with other paradigms such as neural network and graphical modelling methods The book is ideal for researchers and graduate students in the field **Independent Component Analysis** Te-Won Lee,2013-04-17 Independent Component Analysis ICA is a signal processing method to extract independent sources given only observed data that are mixtures of the unknown sources Recently blind source separation by ICA has received considerable attention because of its potential signal processing applications such as speech enhancement systems telecommunications medical signal processing and several data mining issues This book presents theories and applications of ICA and includes invaluable examples of several real world applications Based on theories in probabilistic models information theory and artificial neural networks several unsupervised learning algorithms are presented that can perform ICA The seemingly different theories such as infomax maximum likelihood estimation negentropy maximization nonlinear PCA Bussgang algorithm and cumulant based methods are reviewed and put in an information theoretic framework to unify several lines of ICA research An algorithm is presented that is able to blindly separate mixed signals with sub and super Gaussian source distributions The learning algorithms can be extended to filter systems which allows the separation of voices recorded in a real environment cocktail party problem The ICA algorithm has been successfully applied to many biomedical signal processing problems such as the analysis of electroencephalographic data and functional magnetic resonance imaging data ICA applied to images results in independent image components that can be used as features in pattern classification problems such as visual lip reading and face recognition systems The ICA algorithm can furthermore be embedded in an expectation maximization framework for unsupervised classification Independent Component Analysis Theory and Applications is the first book to successfully address this fairly new and generally applicable method of blind source separation It is essential reading for researchers and practitioners with an interest in ICA **Advanced Image Processing Techniques for Remotely Sensed Hyperspectral Data** Pramod K. Varshney,Manoj K. Arora,2013-03-09 The first of its kind this book reviews image processing tools and techniques including Independent Component Analysis Mutual Information Markov Random Field Models and Support Vector Machines The book also explores a number of experimental examples based on a variety of remote sensors The book will be useful to people involved in hyperspectral imaging research as well as by remote sensing data like geologists hydrologists environmental scientists civil engineers and computer scientists *Advanced Solutions in Power Systems* Mircea

Eremia,Chen-Ching Liu,Abdel-Aty Edris,2016-08-31 Provides insight on both classical means and new trends in the application of power electronic and artificial intelligence techniques in power system operation and control This book presents advanced solutions for power system controllability improvement transmission capability enhancement and operation planning The book is organized into three parts The first part describes the CSC HVDC and VSC HVDC technologies the second part presents the FACTS devices and the third part refers to the artificial intelligence techniques All technologies and tools approached in this book are essential for power system development to comply with the smart grid requirements Discusses detailed operating principles and diagrams theory of modeling control strategies and physical installations around the world of HVDC and FACTS systems Covers a wide range of Artificial Intelligence techniques that are successfully applied for many power system problems from planning and monitoring to operation and control Each chapter is carefully edited with drawings and illustrations that helps the reader to easily understand the principles of operation or application Advanced Solutions in Power Systems HVDC FACTS and Artificial Intelligence is written for graduate students researchers in transmission and distribution networks and power system operation This book also serves as a reference for professional software developers and practicing engineers **Advanced Digital Signal Processing and Noise Reduction** Saeed V. Vaseghi,2008-12-23 Digital signal processing plays a central role in the development of modern communication and information processing systems The theory and application of signal processing is concerned with the identification modelling and utilisation of patterns and structures in a signal process The observation signals are often distorted incomplete and noisy and therefore noise reduction the removal of channel distortion and replacement of lost samples are important parts of a signal processing system The fourth edition of Advanced Digital Signal Processing and Noise Reduction updates and extends the chapters in the previous edition and includes two new chapters on MIMO systems Correlation and Eigen analysis and independent component analysis The wide range of topics covered in this book include Wiener filters echo cancellation channel equalisation spectral estimation detection and removal of impulsive and transient noise interpolation of missing data segments speech enhancement and noise interference in mobile communication environments This book provides a coherent and structured presentation of the theory and applications of statistical signal processing and noise reduction methods Two new chapters on MIMO systems correlation and Eigen analysis and independent component analysis Comprehensive coverage of advanced digital signal processing and noise reduction methods for communication and information processing systems Examples and applications in signal and information extraction from noisy data Comprehensive but accessible coverage of signal processing theory including probability models Bayesian inference hidden Markov models adaptive filters and Linear prediction models Advanced Digital Signal Processing and Noise Reduction is an invaluable text for postgraduates senior undergraduates and researchers in the fields of digital signal processing telecommunications and statistical data analysis It will also be of interest to professional engineers in telecommunications

and audio and signal processing industries and network planners and implementers in mobile and wireless communication communities   Advanced Imaging Methods in Neuroscience João O. Malva,Jorge Valero,Miguel Castelo-Branco,Alard Roebroeck,2022-01-11   *Advances in Chemical Engineering III* Lin Yu,Jian Wei Guo,Guo Bin Yi,Qian Yu,2013-09-04 Selected peer reviewed papers from the 3rd International Conference on Chemical Engineering and Advanced Materials CEAM 2013 July 6 7 2013 Guangzhou China   *Independent Component Analysis and Blind Signal Separation* Carlos G. Puntonet,Alberto Prieto,2004-10-27 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 now a days 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 Mixturem els usually fall into three broad categories instantaneous linear models convolutive models and nonlinear models the rstone 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 mean andthosesignalsarereceivedbyasetofsensorsandthereisaninterestinrecovering the original sources we have a potential field of application for BSS and ICA Inside that wide 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 1 appeared Therein after 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 1 J Herault B Ans Circuits neuronaux synapses modi ables d codage de messages

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Neural Computation ,2006   *Bayesian Inference and Maximum Entropy Methods in Science and Engineering* Kevin H. Knuth,2005-12-06 All papers were peer reviewed For over 25 years the MaxEnt workshops have explored Bayesian and Maximum Entropy methods in scientific engineering and signal processing applications This proceedings volume covers all aspects of probabilistic inference such as techniques applications and foundations Applications include physics space science earth science biology imaging graphical models and source separation   **Proceedings of the 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society** IEEE Engineering in Medicine and Biology Society. Annual Conference,Institute of Electrical and Electronics Engineers,2003 These proceedings cover such topics as cardiovascular and respiratory systems imaging and image processing micro and nanotechnologies in medicine and biology information technology in BME neuromuscular systems and rehabilitation engineering and management and telemedicine

Chinese Journal of Electronics ,2003   **Digital Signal Processing Applications** ,2004   Fifth IEEE International Conference on Automatic Face and Gesture Recognition ,2002 Annotation The proceedings from the May 2002 conference in Washington D C contain 68 papers and posters on topics like face analysis detection and recognition face recognition evaluation tracking and motion and gesture An abstract is provided for each Black and white images support the analysis diagrams and charts represent the data Only authors are listed in the index A CD is included Annotation copyrighted by Book News Inc Portland OR   Advances in Information Systems ,2004

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