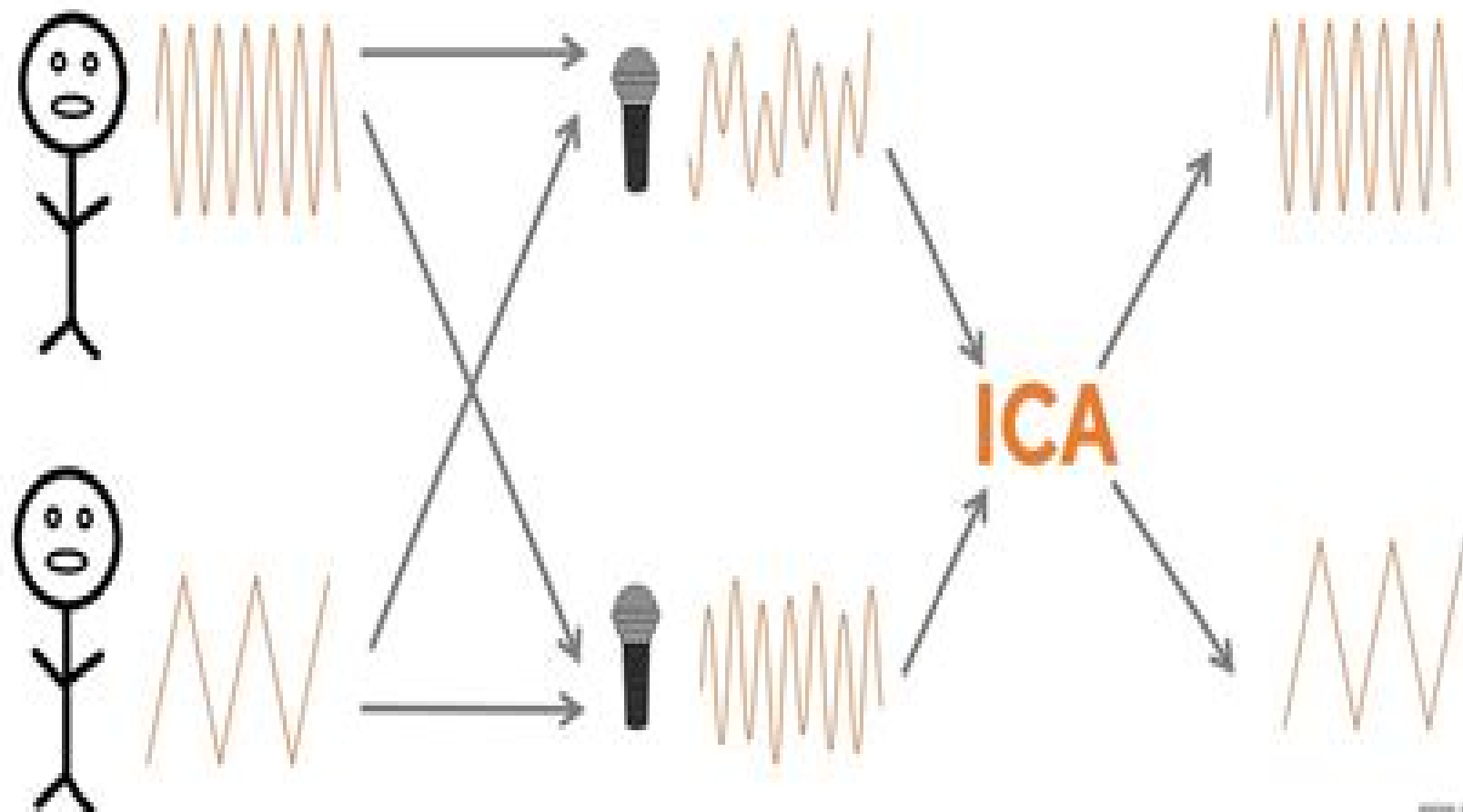


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Advances in Independent Component Analysis Mark Girolami, 2012-12-06 Independent Component Analysis ICA is a fast developing area of intense research interest Following on from Self Organising Neural Networks Independent Component Analysis and Blind 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, 2004-03-22 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 Hyvärinen 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 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. Mixture models usually fall into three broad categories: instantaneous linear models, convolutive models, and nonlinear models, the first one 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 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 known journals. J. Herault, B. Ans, Circuits neuronaux, synapses, modulations de codage de messages, Comptes rendus de l'Académie des Sciences, vol. 299, no. III, pp. 525-528, 1984.

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

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 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 these 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 [1] 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: *J. Herault, B. Ans, Circuits neuronaux synapses modifiables et codage de messages complexes pour apprentissage non supervisé*, C. R. de l'Académie des Sciences, vol. 299, no. III, pp. 525-528, 1984. **Advances in Independent Component Analysis with Applications to Data Mining**, Ella Bingham, 2003. **Journal of Machine Learning Research**, 2007. An international forum covering all areas of machine learning. **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. *Proceedings of the 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, IEEE Engineering in Medicine and Biology Society. Conference, 2003.

Journal of VLSI Signal Processing Systems for Signal, Image, and Video Technology, 2000 **Artificial Neural Networks**, 2003 **Philosophical Transactions of the Royal Society of London**, 1999 **IETE Journal of Research**, 2005 *Data Mining Methods and Applications* Kenneth D. Lawrence, Stephan Kudyba, Ronald K. Klimberg, 2008 Addressing a variety of organizational issues *Data Mining Methods and Applications* presents a compilation of recent research works on data mining and forecasting techniques including multivariate evolutionary and neural net methods This book focuses in particular on data mining techniques used for conducting marketing research Written by a wide range of contributors from academia and industry this text provides detailed descriptions of applications in numerous areas such as finance engineering healthcare economics science and management Real world case studies that are supported by theoretical chapters offer guidance on how to actually perform data mining methods *Wavelet Applications in Signal and Image Processing VIII*, 2000 Unervised Adaptive Filtering, Blind Source Separation Simon Haykin, 2000-04-14 A complete one stop reference on the state of the art of unsupervised adaptive filtering While unsupervised adaptive filtering has its roots in the 1960s more recent advances in signal processing information theory imaging and remote sensing have made this a hot area for research in several diverse fields This book brings together cutting edge information previously available only in disparate papers and articles presenting a thorough and integrated treatment of the two major classes of algorithms used in the field namely blind signal separation and blind channel equalization algorithms Divided into two volumes for ease of presentation this important work shows how these algorithms although developed independently are closely related foundations of unsupervised adaptive filtering Through contributions by the foremost experts on the subject the book provides an up to date account of research findings explains the underlying theory and discusses potential applications in diverse fields More than 100 illustrations as well as case studies appendices and references further enhance this excellent resource Topics in Volume I include Neural and information theoretic approaches to blind signal separation Models concepts algorithms and performance of blind source separation Blind separation of delayed and convolved sources Blind deconvolution of multipath mixtures Applications of blind source separation Volume II Blind Deconvolution continues coverage with blind channel equalization and its relationship to blind source separation

Reviewing **Advances In Independent Component Analysis** **Advances In Independent Component Analysis**: Unlocking the Spellbinding Force of Linguistics

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