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Advances In Independent Component Analysis

Abstract. When estimating parameters adaptively using an iterative algorithm, the rate of convergence is an important gauge of the algorithm's overall performance. This chapter provides numerous results on the initial convergence rate of the well-known FastICA algorithm by Hyvärinen and Oja for

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independent component analysis. Particular attention is paid to the kurtosis-based form of the algorithm due to its analytical tractability.

Advances in Independent Component Analysis and Learning ...

Advances in Independent Component Analysis. Editors: Girolami, Mark (Ed.) Usually dispatched within 3 to 5 business days.

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.

Advances in Independent Component Analysis | Mark Girolami ...

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

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Advances in Independent Component Analysis | SpringerLink

Advances in Independent Component Analysis and Learning Machines Book Description : 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.

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Bingham, E. (2003): Advances in independent component analysis with applications to data mining. Doctoral thesis, Helsinki University of Technology, Dissertations in Computer and Information Science, Report D4, Espoo, Finland. Keywords: independent component analysis, latent variable models, dimensionality reduc-

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Independent component analysis is a probabilistic method for learning a linear transform of a random vector. The goal is to find components that are maximally independent and non-Gaussian...

(PDF) Independent component analysis: Recent advances

In signal processing, independent component analysis is a computational method for separating a multivariate signal into additive subcomponents. This is done by assuming that the subcomponents are non-Gaussian signals and that they are statistically independent from each other. ICA is a special case of

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blind source separation. A common example application is the "cocktail party problem" of listening in on one person's speech in a noisy room.

Independent component analysis - Wikipedia

The FastICA algorithm [This is probably the most widely used algorithm for performing independent component analysis, a variant of factor analysis that is completely identifiable unlike classical methods, and able to perform blind source separation. FastICA package for Matlab and other systems

Publications by Aapo Hyvarinen: FastICA

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Advances in Independent Component Analysis by Mark Girolami

The article presents a survey of improved variants of the famous FastICA algorithm for Independent Component Analysis. Variants of the algorithm tailored to separate mixtures of stationary non-Gaussian signals and mixtures of nonstationary (block-wise stationary) non-Gaussian signals are described.

Improved variants of the FastICA algorithm - ScienceDirect

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Barros A.K. (2000) The Independence Assumption: Dependent Component Analysis. In: Girolami M. (eds) Advances in Independent Component Analysis. Perspectives in Neural Computing.

The Independence Assumption: Dependent Component Analysis ...

4. The Independence Assumption: Dependent Component Analysis / Allan Kardec Barros --pt. III. Ensemble Learning and Applications. 5. Ensemble Learning / Harri Lappalainen and James W. Miskin. 6. Bayesian Non-Linear Independent Component Analysis by Multi-Layer Perceptrons / Harri Lappalainen and Antti Honkela. Series Title:

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Independent component analysis: recent advances. Application of ordinary ICA on will estimate all the quantities involved. The simplest way of modelling this process is to assume that the components are generated in two steps. National Center for Biotechnology InformationIndependent. Is x_1 the cause and x_2 the effect, or vice versa?

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