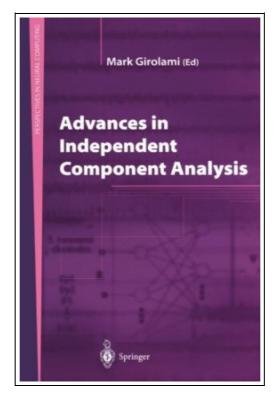
Advances in Independent Component Analysis



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(Junius Herman)

ADVANCES IN INDEPENDENT COMPONENT ANALYSIS



Book Condition: New. Publisher/Verlag: Springer, Berlin | 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. | 'I Temporal ICA Models.- 1 Hidden Markov Independent Component Analysis.- 1.1 Introduction.- 1.2 Hidden Markov Models.- 1.3 Independent Component Analysis.- 1.3.1 Generalised Exponential Sources.- 1.3.2 Generalised Autoregressive Sources.- 1.4 Hidden Markov ICA.- 1.4.1 Generalised Exponential Sources.- 1.4.2 Generalised Autoregressive Sources.- 1.5 Practical Issues.- 1.5.1 Initialisation.-1.5.2 Learning.- 1.5.3 Model Order Selection.- 1.6 Results.- 1.6.1 Multiple Sinewave Sources.- 1.6.2 Same Sources, Different Mixing.- 1.6.3 Same Mixing, Different Sources.- 1.6.4 EEG Data.- 1.7 Conclusion.- 1.8 Acknowledgements.- 1.9 Appendix.- 2 Particle Filters for Non-Stationary ICA.- 2.1 Introduction.- 2.2 Stationary ICA.- 2.3 Non-Stationary Independent Component Analysis.- 2.3.1 Source Model.- 2.4 Particle Filters.- 2.4.1 Source Recovery.- 2.5 Illustration of Non-Stationary ICA.- 2.6 Smoothing.- 2.7 Temporal Correlations.- 2.8 Conclusion.- 2.8.1 Acknowledgement.- 2.9 Appendix: Laplace's Approximation for the Likelihood.- II The Validity of the Independence Assumption.- 3 The Independence Assumption: Analyzing the Independence of the Components by Topography.- 3.1 Introduction.- 3.2 Background: Independent Subspace Analysis.- 3.3 Topographic ICA Model. - 3.3.1 Dependence and Topography. - 3.3.2 Defining Topographic...



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