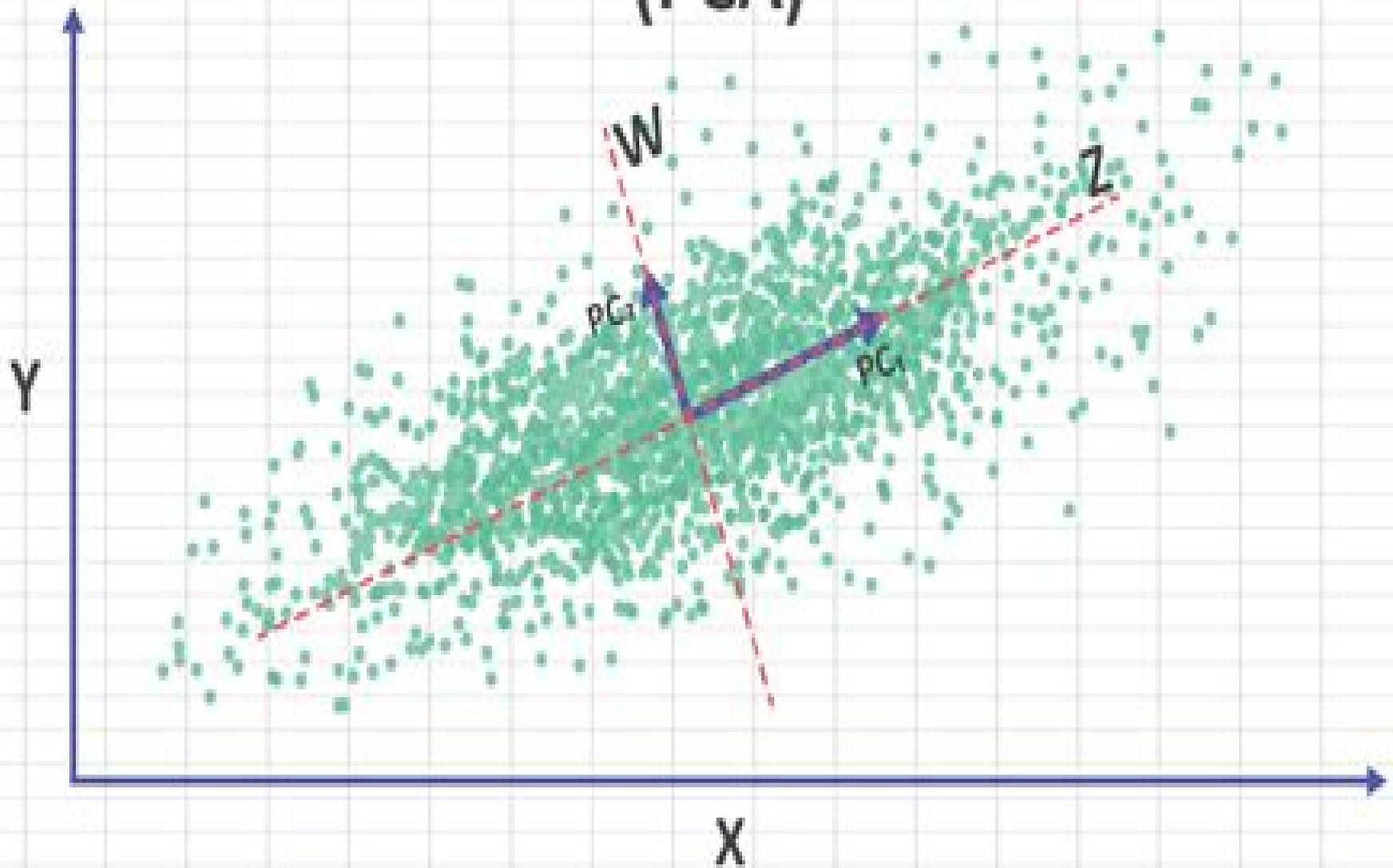# Principal Component Analysis (PCA)

Principal Component Analysis

Xiangyu Kong,Changhua Hu,Zhansheng Duan

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  Principal Components Analysis George H. Dunteman,1989-05 For anyone in need of a concise introductory guide to principal components analysis this book is a must Through an effective use of simple mathematical geometrical and multiple real life examples such as crime statistics indicators of drug abuse and educational expenditures and by minimizing the use of matrix algebra the reader can quickly master and put this technique to immediate use   *Principal Component Analysis* I.T. Jolliffe,2002-10 The first edition of this book was the first comprehensive text written solely on principal component analysis The second edition updates and substantially expands the original version and is once again the definitive text on the subject It includes core material current research and a wide range of applications Its length is nearly double that of the first edition   *Advances in Principal Component Analysis* Fausto Pedro García Márquez,2022-08-25 This book describes and discusses the use of principal component analysis PCA for different types of problems in a variety of disciplines including engineering technology economics and more It presents real world case studies showing how PCA can be applied with other algorithms and methods to solve both large and small and static and dynamic problems It also examines improvements made to PCA over the years   **Factor analysis and principal component analysis** Di Franco,Marradi,2013   <u>Principal Component Analysis Handbook</u> Rebecca Cross,2015-02-19 This book on Principal component analysis PCA is a significant contribution to the field of data analysis PCA involves a statistical procedure which orthogonally transforms a set of possibly correlated observations into set of values of linearly uncorrelated variables called principal components The aim of this book is to enhance knowledge of scientists engineers and researchers regarding the advantages of this technique in data analysis and includes information on the uses of PCA in distinct fields like multi sensor data fusion ecology energy agriculture climate image and video processing gas chromatographic examination color coating materials science and automatic target identification   <u>Principal Component Analysis</u> Virginia Gray,2017 This book provides new research on principal component analysis PCA Chapter One introduces typical PCA applications of transcriptomic proteomic and metabolomic data Chapter Two studies the factor analysis of an outcome measurement survey for science technology and society Chapter Three examines the application of PCA to performance enhancement of hyperspectral radiative transfer computations

  Principal Component Analysis Parinya Sanguansat,2012-03-07 This book is aimed at raising awareness of researchers scientists and engineers on the benefits of Principal Component Analysis PCA in data analysis In this book the reader will find the applications of PCA in fields such as energy multi sensor data fusion materials science gas chromatographic analysis ecology video and image processing agriculture color coating climate and automatic target recognition   <u>Nonlinear Principal Component Analysis and Its Applications</u> Yuichi Mori,Masahiro Kuroda,Naomichi Makino,2016-12-09 This book expounds the principle and related applications of nonlinear principal component analysis PCA which is useful method to analyze mixed measurement levels data In the part dealing with the principle after a brief introduction of ordinary PCA a

PCA for categorical data nominal and ordinal is introduced as nonlinear PCA in which an optimal scaling technique is used to quantify the categorical variables The alternating least squares ALS is the main algorithm in the method Multiple correspondence analysis MCA a special case of nonlinear PCA is also introduced All formulations in these methods are integrated in the same manner as matrix operations Because any measurement levels data can be treated consistently as numerical data and ALS is a very powerful tool for estimations the methods can be utilized in a variety of fields such as biometrics econometrics psychometrics and sociology In the applications part of the book four applications are introduced variable selection for mixed measurement levels data sparse MCA joint dimension reduction and clustering methods for categorical data and acceleration of ALS computation The variable selection methods in PCA that originally were developed for numerical data can be applied to any types of measurement levels by using nonlinear PCA Sparseness and joint dimension reduction and clustering for nonlinear data the results of recent studies are extensions obtained by the same matrix operations in nonlinear PCA Finally an acceleration algorithm is proposed to reduce the problem of computational cost in the ALS iteration in nonlinear multivariate methods This book thus presents the usefulness of nonlinear PCA which can be applied to different measurement levels data in diverse fields As well it covers the latest topics including the extension of the traditional statistical method newly proposed nonlinear methods and computational efficiency in the methods

Three-mode Principal Component Analysis Pieter M. Kroonenberg,1983 **Generalized Principal Component Analysis** René Vidal,Yi Ma,Shankar Sastry,2016-04-11 This book provides a comprehensive introduction to the latest advances in the mathematical theory and computational tools for modeling high dimensional data drawn from one or multiple low dimensional subspaces or manifolds and potentially corrupted by noise gross errors or outliers This challenging task requires the development of new algebraic geometric statistical and computational methods for efficient and robust estimation and segmentation of one or multiple subspaces The book also presents interesting real world applications of these new methods in image processing image and video segmentation face recognition and clustering and hybrid system identification etc This book is intended to serve as a textbook for graduate students and beginning researchers in data science machine learning computer vision image and signal processing and systems theory It contains ample illustrations examples and exercises and is made largely self contained with three Appendices which survey basic concepts and principles from statistics optimization and algebraic geometry used in this book Ren Vidal is a Professor of Biomedical Engineering and Director of the Vision Dynamics and Learning Lab at The Johns Hopkins University Yi Ma is Executive Dean and Professor at the School of Information Science and Technology at ShanghaiTech University S Shankar Sastry is Dean of the College of Engineering Professor of Electrical Engineering and Computer Science and Professor of Bioengineering at the University of California Berkeley *Geometric Applications of Principal Component Analysis* Darko Dimitrov,2012-08 Most of the applications of Principal Component Analysis PCA are non geometric in their nature However there are also a few purely

geometric applications The focus of this book are the geometric properties of the PCA in the context of PCA bounding boxes and reflective symmetry A frequently used heuristic for computing a bounding box of a set of points is based on PCA Here the quality of the PCA bounding boxes is investigated Bounds on the worst case ratio of the volume of the PCA bounding box and the volume of the minimum volume bounding box are presented Also the impact of the theoretical results on applications of several PCA variants in practice are studied Symmetry detection is an important problem with many applications in pattern recognition computer vision and computational geometry In this book we use a relation between the perfect reflective symmetry and the principal components of shapes to compute the planes of symmetry of perfect and approximate reflective symmetric point sets **Principal Component Analysis** Parinya Sanguansat,2012-03-02 This book is aimed at raising awareness of researchers scientists and engineers on the benefits of Principal Component Analysis PCA in data analysis In this book the reader will find the applications of PCA in fields such as image processing biometric face recognition and speech processing It also includes the core concepts and the state of the art methods in data analysis and feature extraction *New Insights on Principal Component Analysis* Fausto Pedro García Márquez,René Vinicio Sánchez Loja,Mayorkinos Papaelias,2024-02-07 This book on Principal Component Analysis PCA extensively explores the core analyses and case studies within this field incorporating the latest advancements Each chapter delves into various disciplines like engineering administration economics and technology showcasing diverse applications and the utility of PCA The book emphasizes the integration of PCA with other algorithms and methodologies highlighting the enhancements achieved through combined approaches Moreover the book elucidates updated versions or iterations of PCA detailing their descriptions and practical applications Advances in Principal Component Analysis Ganesh R. Naik,2017-12-11 This book reports on the latest advances in concepts and further developments of principal component analysis PCA addressing a number of open problems related to dimensional reduction techniques and their extensions in detail Bringing together research results previously scattered throughout many scientific journals papers worldwide the book presents them in a methodologically unified form Offering vital insights into the subject matter in self contained chapters that balance the theory and concrete applications and especially focusing on open problems it is essential reading for all researchers and practitioners with an interest in PCA **Principal Component Analysis Networks and Algorithms** Xiangyu Kong,Changhua Hu,Zhansheng Duan,2017-01-09 This book not only provides a comprehensive introduction to neural based PCA methods in control science but also presents many novel PCA algorithms and their extensions and generalizations e g dual purpose coupled PCA GED neural based SVD algorithms etc It also discusses in detail various analysis methods for the convergence stabilizing self stabilizing property of algorithms and introduces the deterministic discrete time systems method to analyze the convergence of PCA MCA algorithms Readers should be familiar with numerical analysis and the fundamentals of statistics such as the basics of least squares and stochastic algorithms Although it focuses on neural networks the book only presents their learning law which is

simply an iterative algorithm Therefore no a priori knowledge of neural networks is required This book will be of interest and serve as a reference source to researchers and students in applied mathematics statistics engineering and other related fields   Principal Component Analysis Rebecca Cross,2015-03-20 The aim of this book is to enhance knowledge of scientists engineers and researchers regarding the advantages of principal component analysis in data analysis Principal component analysis involves a statistical procedure which orthogonally transforms a set of possibly correlated observations into set of values of linearly uncorrelated variables called principal components This book elucidates the uses of PCA in distinct fields like face recognition and image and speech processing The book also covers core concepts and novel techniques in data analysis and feature extraction   A User's Guide to Principal Components J. Edward Jackson,2003-09-10 WILEY INTERSCIENCE PAPERBACK SERIES The Wiley Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation With these new unabridged softcover volumes Wiley hopes to extend the lives of these works by making them available to future generations of statisticians mathematicians and scientists From the Reviews of A User s Guide to Principal Components The book is aptly and correctly named A User s Guide It is the kind of book that a user at any level novice or skilled practitioner would want to have at hand for autotutorial for refresher or as a general purpose guide through the maze of modern PCA Technometrics I recommend A User s Guide to Principal Components to anyone who is running multivariate analyses or who contemplates performing such analyses Those who write their own software will find the book helpful in designing better programs Those who use off the shelf software will find it invaluable in interpreting the results Mathematical Geology   *Beginner's Guide to Principal Components* Kilem Li Gwet,2020-11-11 The Beginner s Guide to Principal Components is a book that introduces beginner readers to the field of principal component analysis Principal component analysis was invented in the beginning of the twentieth century and has been extensively used by statisticians and social scientists It has found new applications in the era of big data and artificial intelligence With a growing number of users of principal component analysis comes the need to present the materials for a broader audience with limited mathematical background but with a clear desire to understand how the techniques work This book does not require a strong background in linear algebra All concepts related to linear or matrix algebra and needed to understand the principal components will be introduce at a basic level However any prior exposure to linear or matrix algebra will be helpful The more you want to understand principal components the deeper you need to delve into the underlying mathematics One can use any of the software products that implement principal component analysis without having to worry about the underlying mathematics However I advise that you develop some understanding of the logic and the mechanics of principal component analysis before you start crunching numbers This book introduces the Excel template pca xlsm which can be downloaded for free at https agreestat com books pca pca xlsm I expect Excel users to find it useful for implementing the different techniques discussed in this book Non Excel users have a few free alternative

options such as the R software   *A Practical Example Comparing Principal Component Analysis and Principal Axis Factoring as Methods for the Identification of Latent Constructs* Holger Bodenmüller,2015-03-19 Seminar paper from the year 2011 in the subject Economics Statistics and Methods grade 1 0 University of applied sciences Munich course Research Methods language English abstract In this paper the historical and theoretical background of the factor analysis is briefly explained Principal Component Analysis PCA and Principal Axis Factoring PAF are applied to a data set which has been generated in the scope of the evaluation of the implementation of Company X s corporate Strategy XX The results clearly indicate that structural parts of the data collection instrument could be reproduced by the empirical data The primary factors resulting from an orthogonal respectively oblique rotation are comparable but also show slight differences Latent constructs like Trust Job Satisfaction Disengagement and Pessimism are indicated by the results Secondary factors indicate a negative relationship between disengagement and leadership respectively transparency concerning the corporate strategy and job satisfaction Also aspects of state negativity can be identified This means that a general pessimistic attitude is related to a more pessimistic view on realized customer focus The application of more elaborated methods would be needed to identify causal relationships   *Illustrative Examples of Principal Component Analysis Using BMDP/4M** Walter Theodore Federer,C. E. McCulloch,N. J. Miles-McDermott,1987 In order to provide a deeper understanding of the workings of principal components four data sets were constructed by taking linear combinations of values of two uncorrelated variables to form the X variates for the principal component analysis The examples highlight some of the properties and limitations of the principal component analysis This is part of a continuing project that produces annotated computer output for principal component analysis The complete project will involve processing four examples on SAS PRINCOMP BMDP 4M SPSS X FACTOR GENSTAT PCP and SYSTAT FACTOR We show here the results from BMDP 4M Version 85

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1. The book is structured into several chapters, namely:

   - Chapter 1: Introduction to Principal Component Analysis
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   - Chapter 4: Principal Component Analysis in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Principal Component Analysis. This chapter will explore what Principal Component Analysis is, why Principal Component Analysis is vital, and how to effectively learn about Principal Component Analysis.
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5. In chapter 4, the author will scrutinize the relevance of Principal Component Analysis in specific contexts. The fourth chapter will explore how Principal Component Analysis is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Principal Component Analysis. The final chapter will summarize the key points that have been discussed throughout the book.
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Table of Contents Principal Component Analysis

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