

Build raw data matrix  $X$



Carrying out zero averaging on each line of  $X$



Find covariance matrix



Find the eigenvalues and eigenvectors of covariance matrix



Take the first  $k$  rows to form a matrix  $P$



The characteristic matrix  $Y=PX$



The first two PCs were selected for rice identification and analysis

# Feature Extraction Pca Matlab Source Code

**Ana Madevska Bogdanova, Dejan  
Gjorgjevikj**



## **Feature Extraction Pca Matlab Source Code:**

**MATLAB® for Brain-Computer Interface Systems** Faridoddin Shariaty, Sanjiban Sekhar Roy, 2025-06-24 The book extensively explores Brain Computer Interfaces BCIs emphasizing both the theoretical foundations and practical applications within this rapidly advancing field It provides a thorough coverage of BCI fundamentals and practical implementation using MATLAB It begins with an introduction covering the history of BCIs components and the pivotal role MATLAB plays in their development The book explores various aspects such as signal processing data acquisition rapid prototyping machine learning and real time data processing all within the MATLAB environment Additionally it delves into the community and support available along with open source BCI toolboxes and integration with external devices Moving forward the book dives into the fundamentals of BCIs including their definition applications principles and components It covers different types of brain signals utilized in BCI systems and the challenges involved in their design such as signal reliability userfriendliness privacy and regulatory issues It discusses their principles implementation in MATLAB and practical considerations for training and evaluating classification models Finally the book concludes with real world case studies and practical examples demonstrating the application of MATLAB in BCI projects This book is an essential reading for researchers engineers students and practitioners seeking to explore the fascinating intersection of neuroscience signal processing and machine learning through MATLAB based BCI development

*Computer Vision Technology in the Food and Beverage Industries* D-W Sun, 2012-08-13 The use of computer vision systems to control manufacturing processes and product quality has become increasingly important in food processing Computer vision technology in the food and beverage industries reviews image acquisition and processing technologies and their applications in particular sectors of the food industry Part one provides an introduction to computer vision in the food and beverage industries discussing computer vision and infrared techniques for image analysis hyperspectral and multispectral imaging tomographic techniques and image processing Part two goes on to consider computer vision technologies for automatic sorting foreign body detection and removal automated cutting and image analysis of food microstructure Current and future applications of computer vision in specific areas of the food and beverage industries are the focus of part three Techniques for quality control of meats are discussed alongside computer vision in the poultry fish and bakery industries including techniques for grain quality evaluation and the evaluation and control of fruit vegetable and nut quality With its distinguished editor and international team of expert contributors Computer vision technology in the food and beverage industries is an indispensable guide for all engineers and researchers involved in the development and use of state of the art vision systems in the food industry Discusses computer vision and infrared techniques for image analysis hyperspectral and multispectral imaging tomographic techniques and image processing Considers computer vision technologies for automatic sorting foreign body detection and removal automated cutting and image analysis of food microstructure Examines techniques for quality control and computer vision in various

industries including the poultry fish and bakery fruit vegetable and nut industry *ICT Innovations 2014* Ana Madevska Bogdanova, Dejan Gjorgjevikj, 2014-08-09 Data is a common ground a starting point for each ICT system Data needs processing use of different technologies and state of the art methods in order to obtain new knowledge to develop new useful applications that not only ease but also increase the quality of life These applications use the exploration of Big Data High throughput data Data Warehouse Data Mining Bioinformatics Robotics with data coming from social media sensors scientific applications surveillance video and image archives internet texts and documents internet search indexing medical records business transactions web logs etc Information and communication technologies have become the asset in everyday life enabling increased level of communication processing and information exchange This book offers a collection of selected papers presented at the Sixth International Conference on ICT Innovations held in September 2014 in Ohrid Macedonia with main topic World of data The conference gathered academics professionals and practitioners in developing solutions and systems in the industrial and business arena especially innovative commercial implementations novel applications of technology and experience in applying recent ICT research advances to practical solutions **Comprehensive Remote**

**Sensing** Shunlin Liang, 2017-11-08 Comprehensive Remote Sensing Nine Volume Set covers all aspects of the topic with each volume edited by well known scientists and contributed to by frontier researchers It is a comprehensive resource that will benefit both students and researchers who want to further their understanding in this discipline The field of remote sensing has quadrupled in size in the past two decades and increasingly draws in individuals working in a diverse set of disciplines ranging from geographers oceanographers and meteorologists to physicists and computer scientists Researchers from a variety of backgrounds are now accessing remote sensing data creating an urgent need for a one stop reference work that can comprehensively document the development of remote sensing from the basic principles modeling and practical algorithms to various applications Fully comprehensive coverage of this rapidly growing discipline giving readers a detailed overview of all aspects of Remote Sensing principles and applications Contains Layered content with each article beginning with the basics and then moving on to more complex concepts Ideal for advanced undergraduates and academic researchers Includes case studies that illustrate the practical application of remote sensing principles further enhancing understanding

**Bayesian Networks In Fault Diagnosis: Practice And Application** Baoping Cai, Yonghong Liu, Jinqiu Hu, Zengkai Liu, Shengnan Wu, Renjie Ji, 2018-08-24 Fault diagnosis is useful for technicians to detect isolate identify faults and troubleshoot Bayesian network BN is a probabilistic graphical model that effectively deals with various uncertainty problems This model is increasingly utilized in fault diagnosis This unique compendium presents bibliographical review on the use of BNs in fault diagnosis in the last decades with focus on engineering systems Subsequently eleven important issues in BN based fault diagnosis methodology such as BN structure modeling BN parameter modeling BN inference fault identification validation and verification are discussed in various cases Researchers professionals academics and graduate students will

better understand the theory and application and benefit those who are keen to develop real BN based fault diagnosis system

*Intelligent Robotics and Applications* Haibin Yu, Jinguo Liu, Lianqing Liu, Zhaojie Ju, Yuwang Liu, Dalin Zhou, 2019-08-05

The volume set LNAI 11740 until LNAI 11745 constitutes the proceedings of the 12th International Conference on Intelligent Robotics and Applications ICIRA 2019 held in Shenyang China in August 2019 The total of 378 full and 25 short papers presented in these proceedings was carefully reviewed and selected from 522 submissions The papers are organized in topical sections as follows Part I collective and social robots human biomechanics and human centered robotics robotics for cell manipulation and characterization field robots compliant mechanisms robotic grasping and manipulation with incomplete information and strong disturbance human centered robotics development of high performance joint drive for robots modular robots and other mechatronic systems compliant manipulation learning and control for lightweight robot Part II power assisted system and control bio inspired wall climbing robot underwater acoustic and optical signal processing for environmental cognition piezoelectric actuators and micro nano manipulations robot vision and scene understanding visual and motional learning in robotics signal processing and underwater bionic robots soft locomotion robot teleoperation robot autonomous control of unmanned aircraft systems Part III marine bio inspired robotics and soft robotics materials mechanisms modelling and control robot intelligence technologies and system integration continuum mechanisms and robots unmanned underwater vehicles intelligent robots for environment detection or fine manipulation parallel robotics human robot collaboration swarm intelligence and multi robot cooperation adaptive and learning control system wearable and assistive devices and robots for healthcare nonlinear systems and control Part IV swarm intelligence unmanned system computational intelligence inspired robot navigation and SLAM fuzzy modelling for automation control and robotics development of ultra thin film flexible sensors and tactile sensation robotic technology for deep space exploration wearable sensing based limb motor function rehabilitation pattern recognition and machine learning navigation localization Part V robot legged locomotion advanced measurement and machine vision system man machine interactions fault detection testing and diagnosis estimation and identification mobile robots and intelligent autonomous systems robotic vision recognition and reconstruction robot mechanism and design Part VI robot motion analysis and planning robot design development and control medical robot robot intelligence learning and linguistics motion control computer integrated manufacturing robot cooperation virtual and augmented reality education in mechatronics engineering robotic drilling and sampling technology automotive systems mechatronics in energy systems human robot interaction

**Image Analysis and Recognition**

Mohamed Kamel, Aurélio Campilho, 2005-10-10 ICIAR 2005 the International Conference on Image Analysis and Recognition was the second ICIAR conference and was held in Toronto Canada ICIAR is organized annually and alternates between Europe and North America ICIAR 2004 was held in Porto Portugal The idea of offering these conferences came as a result of discussion between researchers in Portugal and Canada to encourage collaboration and exchange mainly between these two

countries but also with the open participation of other countries addressing recent advances in theory methodology and applications The response to the call for papers for ICIAR2005 was encouraging From 295 full papers submitted 153 were finally accepted 80 oral presentations and 73 posters The review process was carried out by the Program Committee members and other reviewers all are experts in various image analysis and recognition areas Each paper was reviewed by at least two reviewers and also checked by the conference co chairs The high quality of the papers in these proceedings is attributed first to the authors and second to the quality of the reviews provided by the experts We would like to thank the authors for responding to our call and we wholeheartedly thank the reviewers for their excellent work and for their timely response It is this collective effort that resulted in the strong conference program and high quality proceedings in your hands **Search**

**Techniques in Intelligent Classification Systems** Andrey V. Savchenko, 2016-05-02 A unified methodology for categorizing various complex objects is presented in this book Through probability theory novel asymptotically minimax criteria suitable for practical applications in imaging and data analysis are examined including the special cases such as the Jensen Shannon divergence and the probabilistic neural network An optimal approximate nearest neighbor search algorithm which allows faster classification of databases is featured Rough set theory sequential analysis and granular computing are used to improve performance of the hierarchical classifiers Practical examples in face identification including deep neural networks isolated commands recognition in voice control system and classification of visemes captured by the Kinect depth camera are included This approach creates fast and accurate search procedures by using exact probability densities of applied dissimilarity measures This book can be used as a guide for independent study and as supplementary material for a technically oriented graduate course in intelligent systems and data mining Students and researchers interested in the theoretical and practical aspects of intelligent classification systems will find answers to Why conventional implementation of the naive Bayesian approach does not work well in image classification How to deal with insufficient performance of hierarchical classification systems Is it possible to prevent an exhaustive search of the nearest neighbor in a database

**Neuromorphic Engineering Systems and Applications** Chiara Bartolozzi, Emre O. Neftci, Elisabetta Chicca, 2021-12-01 **Neural Networks in a Softcomputing Framework** Ke-Lin Du, M.N.S. Swamy, 2006-08-02

Conventional model based data processing methods are computationally expensive and require experts knowledge for the modelling of a system Neural networks are a model free adaptive parallel processing solution This textbook provides a powerful and universal paradigm for information processing it reviews the most popular neural network methods and their associated techniques Each chapter has a systematic survey of each neural network model Computational intelligence topics like fuzzy logic and genetic algorithms tools for neural network learning are introduced Array signal processing problems are used to show the applications of each model This is an ideal textbook for graduate students and researchers as well as introducing the basics the exhaustive list of references included will aid their future research It is also a valuable reference

for scientists and practitioners working in pattern recognition signal processing speech and image processing data analysis and A I     **Handbook of Research on Customer Loyalty** Keeling, Debbie L.,de Ruyter, Ko,Cox, David,2022-07-19

Identifying customer loyalty as a crucial success factor in contemporary marketing thinking and practice this innovative Handbook incorporates a rich collection of perspectives on the current topics and research driven practices in the field Leading scholars offer an insightful reimagining of the research methods metrics and designs for the future of measuring and predicting customer loyalty     Machine Learning Projects for .NET Developers Mathias Brandewinder,2015-07-09 Machine Learning Projects for NET Developers shows you how to build smarter NET applications that learn from data using simple algorithms and techniques that can be applied to a wide range of real world problems You ll code each project in the familiar setting of Visual Studio while the machine learning logic uses F# a language ideally suited to machine learning applications in NET If you re new to F# this book will give you everything you need to get started If you re already familiar with F# this is your chance to put the language into action in an exciting new context In a series of fascinating projects you ll learn how to Build an optical character recognition OCR system from scratch Code a spam filter that learns by example Use F# s powerful type providers to interface with external resources in this case data analysis tools from the R programming language Transform your data into informative features and use them to make accurate predictions Find patterns in data when you don t know what you re looking for Predict numerical values using regression models Implement an intelligent game that learns how to play from experience Along the way you ll learn fundamental ideas that can be applied in all kinds of real world contexts and industries from advertising to finance medicine and scientific research While some machine learning algorithms use fairly advanced mathematics this book focuses on simple but effective approaches If you enjoy hacking code and data this book is for you     **Ekstraksi Fitur Citra Biomedik** Sri Widodo,Penerbit Pustaka Rumah C1nta, Pengolahan citra biomedik adalah ilmu dasar yang saat ini perkembangannya sangat pesat khususnya untuk dunia komputer dan informatika Tetapi ironisnya dewasa ini sangat jarang ada buku teks atau buku ajar dalam bahasa Indonesia mengenai materi pengolahan citra biomedik khususnya yang membahas tentang ekstraksi fitur Ekstraksi fitur sangat penting khusus dalam pengembangan aplikasi cerdas yang menggunakan citra Buku buku yang ada kebanyakan buku buku pengolahan citra secara umum sehingga jika diterapkan di dunia medis sangat sulit sekali untuk dipahami Hal ini dikarenakan isinya tidak diikuti oleh implementasi secara nyata dalam dunia medis Dalam buku ini akan dibahas mengenai ekstraksi fitur citra biomedik yang dilengkapi dengan contoh aplikasi menggunakan bahasa pemrograman Matlab sebagai studi kasus yang diambil dari penelitian yang dilakukan oleh penulis yang sudah dipublikasikan di jurnal Nasional maupun Internasional Bereputasi Bagi pemula yang baru belajar tentang pengolahan citra tetap dapat menggunakan buku ini hal ini dikarenakan materi pengolahan citra dimulai dari dasar Mahasiswa ilmu komputer atau informatika sangat perlu untuk memahami materi ekstraksi citra biomedik menggunakan Matlab ini secara mendalam khususnya dalam pengembangan sistem cerdas yang menggunakan citra medis

Karena ekstraksi fitur citra biomedik merupakan roh dari proses pengembangan aplikasi cerdas dalam dunia kesehatan Dengan disusunnya buku Ekstraksi Fitur Citra Biomedik Menggunakan Matlab ini diharapkan dapat membantu proses belajar mengajar bagi mahasiswa ilmu komputer atau informatika khususnya yang mendalami tentang pengolahan citra medik sesuai dengan kurikulum yang diterapkan Diharapkan mahasiswa dapat mengenal dan memahami konsep dasar pengolahan citra medik dan ekstraksi citra medik di masa sekarang maupun yang akan datang

**XXVI Brazilian Congress on Biomedical Engineering** Rodrigo Costa-Felix, João Carlos Machado, André Victor Alvarenga, 2019-05-15 This volume presents the proceedings of the Brazilian Congress on Biomedical Engineering CBEB 2018 The conference was organised by the Brazilian Society on Biomedical Engineering SBEB and held in Arma o de Buzios Rio de Janeiro Brazil from 21 25 October 2018 Topics of the proceedings include these 11 tracks Bioengineering Biomaterials Tissue Engineering and Artificial Organs Biomechanics and Rehabilitation Biomedical Devices and Instrumentation Biomedical Robotics Assistive Technologies and Health Informatics Clinical Engineering and Health Technology Assessment Metrology Standardization Testing and Quality in Health Biomedical Signal and Image Processing Neural Engineering Special Topics Systems and Technologies for Therapy and Diagnosis

**A Practical Approach for Machine Learning and Deep Learning Algorithms** Abhishek Kumar Pandey, Pramod Singh Rathore, Dr. S. Balamurugan, 2019-09-18 Guide covering topics from machine learning regression models neural network to tensor flow DESCRIPTION Machine learning is mostly sought in the research field and has become an integral part of many research projects nowadays including commercial applications as well as academic research Application of machine learning ranges from finding friends on social networking sites to medical diagnosis and even satellite processing In this book we have made an honest effort to make the concepts of machine learning easy and give basic programs in MATLAB right from the installation part Although the real time application of machine learning is endless however the basic concepts and algorithms are discussed using MATLAB language so that not only graduation students but also researchers are benefitted from it KEY FEATURES Machine learning in MATLAB using basic concepts and algorithms Deriving and accessing of data in MATLAB and next pre processing and preparation of data Machine learning workflow for health monitoring The neural network domain and implementation in MATLAB with explicit explanation of code and results How predictive model can be improved using MATLAB MATLAB code for an algorithm implementation rather than for mathematical formula Machine learning workflow for health monitoring WHAT WILL YOU LEARN Pre requisites to machine learning Finding natural patterns in data Building classification methods Data pre processing in Python Building regression models Creating neural networks Deep learning WHO THIS BOOK IS FOR The book is basically meant for graduate and research students who find the algorithms of machine learning difficult to implement We have touched all basic algorithms of machine learning in detail with a practical approach Primarily beginners will find this book more effective as the chapters are subdivided in a manner that they find the building and implementation of algorithms



in MATLAB interesting and easy at the same time Table of Contents \_1 Pre requisite to Machine Learning 2 An introduction to Machine Learning 3 Finding Natural Patterns in Data 4 Building Classification Methods 5 Data Pre Processing in Python 6 Building Regression Models 7 Creating Neural Networks 8 Introduction to Deep Learning

**Optical Spectroscopy And Imaging For Cancer Diagnostics: Fundamentals, Progress, And Challenges** Nouredine Melikechi,2023-01-06 This is an interdisciplinary book that presents the applications of novel laser spectroscopy and imaging techniques for the detection of cancers recently developed by some of the world s most renown researchers The book consists of three parts and a total of 16 chapters Each chapter is written by leading experts who are actively seeking to develop novel spectroscopic and analytical methods for cancer detection and diagnosis In Part I the authors present fundamentals on optics atoms and molecules biophysics cancer and machine learning These chapters are intended for those who are not experts in the field but wish to learn about fundamentals aspects of some of the key topics that are addressed in this book Particular attention has been given to providing key references for those who wish to go further into the fundamental aspects of atoms and molecules light matter interaction optical instrumentation machine learning and cancer In Part II the authors present key applications of various laser spectroscopic methods in cancer diagnosis They have provided recent progress in cancer diagnostics obtained by combining laser spectroscopy and machine learning for the analysis of the spectra acquired from biomedical tissues and biofluids In Part III the authors present chapters that discuss key developments in the applications of various laser imaging techniques for cancer detection This is one of the few books that addresses cancer detection and diagnosis using laser spectroscopic and imaging tools with an eye on providing the reader the scientific tools including machine learning ones

**Chemometrics in Chromatography** Łukasz Komsta,Yvan Vander Heyden,Joseph Sherma,2018-02-02 Chemometrics uses advanced mathematical and statistical algorithms to provide maximum chemical information by analyzing chemical data and obtain knowledge of chemical systems Chemometrics significantly extends the possibilities of chromatography and with the technological advances of the personal computer and continuous development of open source software many laboratories are interested in incorporating chemometrics into their chromatographic methods This book is an up to date reference that presents the most important information about each area of chemometrics used in chromatography demonstrating its effective use when applied to a chromatographic separation

*Handbook of Research on AI and ML for Intelligent Machines and Systems* Gupta, Brij B.,Colace, Francesco,2023-11-27 The Handbook of Research on AI and ML for Intelligent Machines and Systems offers a comprehensive exploration of the pivotal role played by artificial intelligence AI and machine learning ML technologies in the development of intelligent machines As the demand for intelligent machines continues to rise across various sectors understanding the integration of these advanced technologies becomes paramount While AI and ML have individually showcased their capabilities in developing robust intelligent machine systems and services their fusion holds the key to propelling intelligent machines to a new realm of transformation By compiling recent

advancements in intelligent machines that rely on machine learning and deep learning technologies this book serves as a vital resource for researchers graduate students PhD scholars faculty members scientists and software developers It offers valuable insights into the key concepts of AI and ML covering essential security aspects current trends and often overlooked perspectives that are crucial for achieving comprehensive understanding It not only explores the theoretical foundations of AI and ML but also provides guidance on applying these techniques to solve real world problems Unlike traditional texts it offers flexibility through its distinctive module based structure allowing readers to follow their own learning paths

**MICAI 2005: Advances in Artificial Intelligence** Alexander Gelbukh,Hugo Terashima,2005-11-04 This book constitutes the refereed proceedings of the 4th Mexican International Conference on Artificial Intelligence MICAI 2005 held in Monterrey Mexico in November 2005 The 120 revised full papers presented were carefully reviewed and selected from 423 submissions The papers are organized in topical sections on knowledge representation and management logic and constraint programming uncertainty reasoning multiagent systems and distributed AI computer vision and pattern recognition machine learning and data mining evolutionary computation and genetic algorithms neural networks natural language processing intelligent interfaces and speech processing bioinformatics and medical applications robotics modeling and intelligent control and intelligent tutoring systems

**Digital Signal Processing with Kernel Methods** Jose Luis Rojo-Alvarez,Manel Martinez-Ramon,Jordi Munoz-Mari,Gustau Camps-Valls,2018-02-05 A realistic and comprehensive review of joint approaches to machine learning and signal processing algorithms with application to communications multimedia and biomedical engineering systems Digital Signal Processing with Kernel Methods reviews the milestones in the mixing of classical digital signal processing models and advanced kernel machines statistical learning tools It explains the fundamental concepts from both fields of machine learning and signal processing so that readers can quickly get up to speed in order to begin developing the concepts and application software in their own research Digital Signal Processing with Kernel Methods provides a comprehensive overview of kernel methods in signal processing without restriction to any application field It also offers example applications and detailed benchmarking experiments with real and synthetic datasets throughout Readers can find further worked examples with Matlab source code on a website developed by the authors <http://github.com/DSPKM>

Presents the necessary basic ideas from both digital signal processing and machine learning concepts Reviews the state of the art in SVM algorithms for classification and detection problems in the context of signal processing Surveys advances in kernel signal processing beyond SVM algorithms to present other highly relevant kernel methods for digital signal processing An excellent book for signal processing researchers and practitioners Digital Signal Processing with Kernel Methods will also appeal to those involved in machine learning and pattern recognition

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of D.C. Motor Using PI, IP, and Fuzzy Controller. Speed control of dc motor using pid controller - Universiti ... Nov 28, 2012 — Speed control of dc motor using pid controller - Universiti Malaysia ... ... UNIVERSITI TEKNOLOGI MALAYSIA - Universiti Malaysia Pahang. CHAPTER 1 ... Brushless DC Motor Speed Control Using Single Input ... Abstract: Many Industries are using Brushless Direct Current (BLDC) Motor in various applications for their high torque performance, higher efficiency and low ... Design a Speed Control for DC Motor Using an Optimal ... by AI Tajudin · 2022 · Cited by 1 — Abstract—The project purpose to implement Artificial Bee. Colony (ABC) algorithm optimization technique for controlling the speed of the DC motor. (PDF) A response time reduction for DC motor controller ... This paper proposes an alternative solution to maximize optimization for a controller-based DC motor. The novel methodology relies on merge proper tuning with ... Modelling and Simulation for Industrial DC Motor Using ... by AAA Emhemed · 2012 · Cited by 61 — The main objective of this paper illustrates how the speed of the DC motor can be controlled using different controllers. The simulation results demonstrate ... Stability and performance evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ...