

## COMPUTER EXERCISES

Several exercises will make use of the following three-dimensional data sampled from three categories, denoted  $\omega_i$ .

| sample | $\omega_1$ |        |       | $\omega_2$ |       |        | $\omega_3$ |        |        |
|--------|------------|--------|-------|------------|-------|--------|------------|--------|--------|
|        | $x_1$      | $x_2$  | $x_3$ | $x_1$      | $x_2$ | $x_3$  | $x_1$      | $x_2$  | $x_3$  |
| 1      | 0.42       | -0.087 | 0.58  | -0.4       | 0.58  | 0.089  | 0.83       | 1.6    | -0.014 |
| 2      | -0.2       | -3.3   | -3.4  | -0.31      | 0.27  | -0.04  | 1.1        | 1.6    | 0.48   |
| 3      | 1.3        | -0.32  | 1.7   | 0.38       | 0.055 | -0.035 | -0.44      | -0.41  | 0.32   |
| 4      | 0.39       | 0.71   | 0.23  | -0.15      | 0.53  | 0.011  | 0.047      | -0.45  | 1.4    |
| 5      | -1.6       | -5.3   | -0.15 | -0.35      | 0.47  | 0.034  | 0.28       | 0.35   | 3.1    |
| 6      | -0.029     | 0.89   | -4.7  | 0.17       | 0.69  | 0.1    | -0.39      | -0.48  | 0.11   |
| 7      | -0.23      | 1.9    | 2.2   | -0.011     | 0.55  | -0.18  | 0.34       | -0.079 | 0.14   |
| 8      | 0.27       | -0.3   | -0.87 | -0.27      | 0.61  | 0.12   | -0.3       | -0.22  | 2.2    |
| 9      | -1.9       | 0.76   | -2.1  | -0.065     | 0.49  | 0.0012 | 1.1        | 1.2    | -0.46  |
| 10     | 0.87       | -1.0   | -2.6  | -0.12      | 0.054 | -0.063 | 0.18       | -0.11  | -0.49  |

### Section 3.2

1. Consider Gaussian density models in different dimensions.

- Write a program to find the maximum-likelihood values  $\hat{\mu}$  and  $\hat{\sigma}^2$ . Apply your program individually to each of the three features  $x_i$  of category  $\omega_1$  in the table above.
- Modify your program to apply to two-dimensional Gaussian data  $p(\mathbf{x}) \sim N(\boldsymbol{\mu}, \boldsymbol{\Sigma})$ . Apply your data to each of the three possible pairings of two features for  $\omega_1$ .
- Modify your program to apply to three-dimensional Gaussian data. Apply your data to the full three-dimensional data for  $\omega_1$ .
- Assume your three-dimensional model is separable, so that

$$\boldsymbol{\Sigma} = \text{diag}(\sigma_1^2, \sigma_2^2, \sigma_3^2).$$

Write a program to estimate the mean and the diagonal components of  $\boldsymbol{\Sigma}$ . Apply your program to the data in  $\omega_2$ .

- Compare your results for the mean of each feature  $\mu_i$  calculated in the above ways. Explain why they are the same or different.
- Compare your results for the variance of each feature  $\sigma_i^2$  calculated in the above ways. Explain why they are the same or different.

# Pattern Recognition Duda Computer Exercise Solution

**Martin Braschler,Thilo  
Stadelmann,Kurt Stockinger**



## **Pattern Recognition Duda Computer Exercise Solution:**

Pattern Recognition in Practice II L.N. Kanal,E.S. Gelsema,2012-12-02 The 1985 Amsterdam conference brought together researchers active in pattern recognition methodology and the development of practical applications The first part of the book covers various methodological aspects of image processing knowledge based and model driven image understanding systems 3 D reconstruction methods and application oriented papers Part II deals with aspects of statistical pattern recognition the problem of population classification and topics common to both pattern recognition and artificial intelligence

**Pattern Classification** Richard O. Duda,Peter E. Hart,David G. Stork,2012-11-09 The first edition published in 1973 has become a classicreference in the field Now with the second edition readers willfind information on key new topics such as neural networks andstatistical pattern recognition the theory of machine learning and the theory of invariances Also included are worked examples comparisons between different methods extensive graphics expandedexercises and computer project topics An Instructor s Manual presenting detailed solutions to all theproblems in the book is available from the Wiley editorialdepartment

**Pattern Recognition** J. P. Marques de Sá,2001 CD ROM contains Datasets Software tools

**Machine Learning - A Journey To Deep Learning: With Exercises And Answers** Andreas Miroslaus Wichert,Luis Sa-couto,2021-01-26 This unique compendium discusses some core ideas for the development and implementation of machine learning from three different perspectives the statistical perspective the artificial neural network perspective and the deep learning methodology The useful reference text represents a solid foundation in machine learning and should prepare readers to apply and understand machine learning algorithms as well as to invent new machine learning methods It tells a story outgoing from a perceptron to deep learning highlighted with concrete examples including exercises and answers for the students Related Link s

**Theory and Practice of Cryptography Solutions for Secure Information Systems** Elçi, Atilla,Pieprzyk, Josef,Chefranov, Alexander G.,Orgun, Mehmet A.,Wang, Huaxiong,Shankaran, Rajan,2013-05-31 Information Systems IS are a nearly omnipresent aspect of the modern world playing crucial roles in the fields of science and engineering business and law art and culture politics and government and many others As such identity theft and unauthorized access to these systems are serious concerns Theory and Practice of Cryptography Solutions for Secure Information Systems explores current trends in IS security technologies techniques and concerns primarily through the use of cryptographic tools to safeguard valuable information resources This reference book serves the needs of professionals academics and students requiring dedicated information systems free from outside interference as well as developers of secure IS applications This book is part of the Advances in Information Security Privacy and Ethics series collection

**Mathematical Aspects of Artificial Intelligence** Frederick Hoffman,American Mathematical Society,1998 There exists a history of great expectations and large investments involving artificial intelligence AI There are also notable shortfalls and memorable disappointments One major controversy regarding AI is just how mathematical a field it is or

should be This text includes contributions that examine the connections between AI and mathematics demonstrating the potential for mathematical applications and exposing some of the more mathematical areas within AI The goal is to stimulate interest in people who can contribute to the field or use its results Included in the work by M Newborn on the famous Deep Blue chess match He discusses highly mathematical techniques involving graph theory combinatorics and probability and statistics G Shafer offers his development of probability through probability trees with some of the results appearing here for the first time M Golumbic treats temporal reasoning with ties to the famous Frame Problem His contribution involves logic combinatorics and graph theory and leads to two chapters with logical themes H Kirchner explains how ordering techniques in automated reasoning systems make deduction more efficient Constraint logic programming is discussed by C Lassez who shows its intimate ties to linear programming with crucial theorems going back to Fourier V Nalwa's work provides a brief tour of computer vision tying it to mathematics from combinatorics probability and geometry to partial differential equations All authors are gifted expositors and are current contributors to the field The wide scope of the volume includes research problems research tools and good motivational material for teaching

**Markov Random Field Modeling in Computer Vision** S.Z. Li, 2012-12-06 Markov random field MRF modeling provides a basis for the characterization of contextual constraints on visual interpretation and enables us to develop optimal vision algorithms systematically based on sound principles This book presents a comprehensive study on using MRFs to solve computer vision problems covering the following parts essential to the subject introduction to fundamental theories formulations of various vision models in the MRF framework MRF parameter estimation and optimization algorithms Various MRF vision models are presented in a unified form including image restoration and reconstruction edge and region segmentation texture stereo and motion object matching and recognition and pose estimation This book is an excellent reference for researchers working in computer vision image processing pattern recognition and applications of MRFs It is also suitable as a text for advanced courses in the subject

*Computer Imaging* Scott E Umbaugh, 2005-01-27 Computer Imaging Digital Image Analysis and Processing brings together analysis and processing in a unified framework providing a valuable foundation for understanding both computer vision and image processing applications Taking an engineering approach the text integrates theory with a conceptual and application oriented style allowing you to immediately understand how each topic fits into the overall structure of practical application development Divided into five major parts the book begins by introducing the concepts and definitions necessary to understand computer imaging The second part describes image analysis and provides the tools concepts and models required to analyze digital images and develop computer vision applications Part III discusses application areas for the processing of images emphasizing human visual perception Part IV delivers the information required to apply a CVI tools environment to algorithm development The text concludes with appendices that provide supplemental imaging information and assist with the programming exercises found in each chapter The author presents topics as needed for understanding

each practical imaging model being studied This motivates the reader to master the topics and also makes the book useful as a reference The CVIPtools software integrated throughout the book now in a new Windows version provides practical examples and encourages you to conduct additional exploration via tutorials and programming exercises provided with each chapter

**Building Next-Generation Converged Networks** Al-Sakib Khan Pathan,Muhammad Mostafa Monowar,Zubair Md. Fadlullah,2013-01-29 Providing a comprehensive introduction to next generation networks this book strikes a balance between how and why things work and making them work It examines Internet architectures and protocols network management and traffic engineering embedded systems and sensor networks web services cloud technologies and next generation wireless networking Containing the contributions of top industry experts and academics the book investigates new technologies such as IPv6 over Low Power Wireless Personal Area Networks 6LoWPAN architectures and standards mobility and security

*Computer Vision In Robotics And Industrial Applications* Dominik Sankowski,Jacek Nowakowski,2014-06-26 The book presents a collection of practical applications of image processing and analysis Different vision systems are more often used among others in the automotive industry pharmacy military and police equipment automated production and measurement systems In each of these fields of technology digital image processing and analysis module is a critical part of the process of building this type of system The majority of books in the market deal with theoretical issues However this unique publication specially highlights industrial applications especially industrial measurement applications Along with its wide spectrum of image processing and analysis applications this book is an interesting reference for both students and professionals

**Pattern Recognition and Artificial Intelligence, Towards an Integration** L.N. Kanal,E.S. Gelsema,2014-06-28 This volume brings together the results of research into the methodology and applications of pattern recognition with particular emphasis given to the incorporation of artificial intelligence methodologies into pattern recognition systems The first part of this volume covers image analysis and processing software systems and algorithms Pattern analysis and classifier design are dealt with in part two while the last part deals with model based and expert systems including uncertainty calculus methods in pattern analysis and object recognition A number of specific application areas are considered including such diverse topics as fingerprinting astronomy molecular biology and pathology

**Modeling and Simulation** ,1985 **Template Matching Techniques in Computer Vision** Roberto Brunelli,2009-04-29 The detection and recognition of objects in images is a key research topic in the computer vision community Within this area face recognition and interpretation has attracted increasing attention owing to the possibility of unveiling human perception mechanisms and for the development of practical biometric systems This book and the accompanying website focus on template matching a subset of object recognition techniques of wide applicability which has proved to be particularly effective for face recognition applications Using examples from face processing tasks throughout the book to illustrate more general object recognition approaches Roberto Brunelli examines the basics of digital

image formation highlighting points critical to the task of template matching presents basic and advanced template matching techniques targeting grey level images shapes and point sets discusses recent pattern classification paradigms from a template matching perspective illustrates the development of a real face recognition system explores the use of advanced computer graphics techniques in the development of computer vision algorithms Template Matching Techniques in Computer Vision is primarily aimed at practitioners working on the development of systems for effective object recognition such as biometrics robot navigation multimedia retrieval and landmark detection It is also of interest to graduate students undertaking studies in these areas      **Spectral Feature Selection for Data Mining** Zheng Alan Zhao,Huan

Liu,2011-12-14 Spectral Feature Selection for Data Mining introduces a novel feature selection technique that establishes a general platform for studying existing feature selection algorithms and developing new algorithms for emerging problems in real world applications This technique represents a unified framework for supervised unsupervised and semisupervise

**Parallel Processing and Applied Mathematics** Roman Wyrzykowski,Jack Dongarra,Norbert Meyer,Jerzy Wasniewski,2006-06-09 This book constitutes the thoroughly refereed post proceedings of the 6th International Conference on Parallel Processing and Applied Mathematics PPAM 2005 The book presents 135 papers organized in topical sections on parallel and distributed architectures parallel and distributed non numerical algorithms performance analysis prediction and optimization grid programming tools and environments for clusters and grids applications of parallel distributed grid computing evolutionary computing with applications parallel data mining parallel numerics and mathematical and computing methods      **Stochastic and Neural Methods in Signal Processing, Image Processing, and Computer Vision** Society of Photo-optical Instrumentation Engineers,1991      **Ecology and ethology of fishes** David L.G. Noakes,J.A.

Ward,2013-06-29 Proceedings of the 2nd Biennial Symposium on the Ethology and Behavioral Ecology of Fishes held at Normal Ill U S A October 19 22 1979      *Applied Data Science* Martin Braschler,Thilo Stadelmann,Kurt

Stockinger,2019-06-13 This book has two main goals to define data science through the work of data scientists and their results namely data products while simultaneously providing the reader with relevant lessons learned from applied data science projects at the intersection of academia and industry As such it is not a replacement for a classical textbook i e it does not elaborate on fundamentals of methods and principles described elsewhere but systematically highlights the connection between theory on the one hand and its application in specific use cases on the other With these goals in mind the book is divided into three parts Part I pays tribute to the interdisciplinary nature of data science and provides a common understanding of data science terminology for readers with different backgrounds These six chapters are geared towards drawing a consistent picture of data science and were predominantly written by the editors themselves Part II then broadens the spectrum by presenting views and insights from diverse authors some from academia and some from industry ranging from financial to health and from manufacturing to e commerce Each of these chapters describes a fundamental principle

method or tool in data science by analyzing specific use cases and drawing concrete conclusions from them The case studies presented and the methods and tools applied represent the nuts and bolts of data science Finally Part III was again written from the perspective of the editors and summarizes the lessons learned that have been distilled from the case studies in Part II The section can be viewed as a meta study on data science across a broad range of domains viewpoints and fields Moreover it provides answers to the question of what the mission critical factors for success in different data science undertakings are The book targets professionals as well as students of data science first practicing data scientists in industry and academia who want to broaden their scope and expand their knowledge by drawing on the authors combined experience Second decision makers in businesses who face the challenge of creating or implementing a data driven strategy and who want to learn from success stories spanning a range of industries Third students of data science who want to understand both the theoretical and practical aspects of data science vetted by real world case studies at the intersection of academia and industry

*Biomechanics, Aging, Exercise and Other Interventions* Rafael Reimann Baptista, Marcus Fraga Vieira, Chiarella Sforza, Rezaul Begg, 2022-12-01

*Machine Interpretation of Line Drawing Images* Sergey Ablameyko, Tony Pridmore, 2012-12-06

Line drawing interpretation is a challenging area with enormous practical potential At present many companies throughout the world invest large amounts of money and human resource in the input of paper drawings into computers The technology needed to produce an image of a drawing is widely available but the transformation of these images into more useful forms is an active field of research and development Machine Interpretation of Line Drawing Images describes the theory and practice underlying the computer interpretation of line drawing images and shows how line drawing interpretation systems can be developed The authors show how many of the problems can be tackled and provide a thorough overview of the processes underpinning the interpretation of images of line drawings

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