Solutions to Selected Problems In:
Pattern Classification
by Duda, Hart, Stork

John L. Weatherwax[*]

February 24, 2008

Problem Solutions

Chapter 2 (Bayesian Decision Theory)

Problem 11 (randomized rules)

Part (a): Let $R(x)$ be the average risk given measurement x. Then since this risk depends on the action and correspondingly the probability of taking such action, this risk can be expressed as

$$R(x) = \sum_{i=1}^{m} R(a_i|x) P^*(a_i|x)$$

Then the total risk (over all possible x) is given by the average of $R(x)$ or

$$R = \int_{\Omega_x} \left(\sum_{i=1}^{m} R(a_i|x) P^*(a_i|x) \right) p(x) dx$$

Part (b): One would pick

$$P(a_i|x) = \begin{cases} 1 & i = \text{ArgMin}_i R(a_i|x) \\ 0 & i = \text{anything else} \end{cases}$$

Thus for every x pick the action that minimizes the local risk. This amounts to a deterministic rule i.e. there is no benefit to using randomness.

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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   *Machine Learning Algorithms for Problem Solving in Computational Applications: Intelligent Techniques* Kulkarni, Siddhivinayak,2012-06-30 Machine learning is an emerging area of computer science that deals with the design and development of new algorithms based on various types of data Machine Learning Algorithms for Problem Solving in Computational Applications Intelligent Techniques addresses the complex realm of machine learning and its applications for solving various real world problems in a variety of disciplines such as manufacturing business information retrieval and security This premier reference source is essential for professors researchers and students in artificial intelligence as well as computer science and engineering   **Parallel Problem Solving from Nature - PPSN VIII** Xin Yao,2004-09-13 This book constitutes the refereed proceedings of the 8th International Conference on Parallel Problem Solving from Nature PPSN 2004 held in Birmingham UK in September 2004 The 119 revised full papers presented were carefully reviewed and selected from 358 submissions The papers address all current issues in biologically inspired computing they are organized in topical sections on theoretical and foundational issues new algorithms applications multi objective optimization co evolution robotics and multi agent systems and learning classifier systems and data mining   **Solving Problems in Environmental Engineering and Geosciences with Artificial Neural Networks** Farid U. Dowla,Leah L. Rogers,1995 This book complete with exercises and ANN algorithms illustrates how ANNs can be used in solving problems in environmental engineering and the geosciences and provides the necessary tools to get started using these elegant and efficient new techniques   Abductive Inference Models for Diagnostic Problem-Solving Yun Peng,James A. Reggia,2012-12-06 Making a diagnosis when something goes wrong with a natural or m made system can be difficult In many fields such as medicine or electr ics a long training period and apprenticeship are required to become a skilled diagnostician During this time a novice diagnostician is asked to assimilate a large amount of knowledge about the class of systems to be diagnosed In contrast the novice is not really taught how to reason with this knowledge in arriving at a conclusion or a diagnosis except perhaps implicitly through ease examples This would seem to indicate that many of the essential aspects of diagnostic reasoning are a type of intuiti based common sense reasoning More precisely diagnostic reasoning can be classified as a type of inf ence known as abductive reasoning or abduction Abduction is defined to be a process of generating a plausible explanation for a given set of obs vations or facts Although mentioned in Aristotle s work

the study of f mal aspects of abduction did not really start until about a century ago   *Parallel Problem Solving from Nature - PPSN X* Günter Rudolph,2008-09-10 This book constitutes the refereed proceedings of the 10th International Conference on Parallel Problem Solving from Nature PPSN 2008 held in Dortmund Germany in September 2008 The 114 revised full papers presented were carefully reviewed and selected from 206 submissions The conference covers a wide range of topics such as evolutionary computation quantum computation molecular computation neural computation artificial life swarm intelligence artificial ant systems artificial immune systems self organizing systems emergent behaviors and applications to real world problems The paper are organized in topical sections on formal theory new techniques experimental analysis multiobjective optimization hybrid methods and applications   **Numerical Linear Approximation in C** Nabih Abdelmalek,William A. Malek,2008-05-19 Illustrating the relevance of linear approximation in a variety of fields Numerical Linear Approximation in C presents a unique collection of linear approximation algorithms that can be used to analyze model and compress discrete data Developed by the lead author the algorithms have been successfully applied to several engineering projects at the National Research Council of Canada Basing most of the algorithms on linear programming techniques the book begins with an introductory section that covers applications the simplex method and matrices The next three parts focus on various L1 Chebyshev and least squares approximations including one sided bounded variables and piecewise The final section presents the solution of underdetermined systems of consistent linear equations that are subject to different constraints on the elements of the unknown solution vector Except in the preliminary section all chapters include the C functions of the algorithms along with drivers that contain numerous test case examples and results The accompanying CD ROM also provides the algorithms written in C code as well as the test drivers To use the software it is not required to understand the theory behind each function   **Parallel Problem Solving from Nature - PPSN XII** Carlos Coello Coello,Vincenzo Cutello,Kalyanmoy Deb,Stephanie Forrest,Giuseppe Nicosia,Mario Pavone,2012-08-27 The two volume set LNCS 7491 and 7492 constitutes the refereed proceedings of the 12th International Conference on Parallel Problem Solving from Nature PPSN 2012 held in Taormina Sicily Italy in September 2012 The total of 105 revised full papers were carefully reviewed and selected from 226 submissions The meeting began with 5 workshops which offered an ideal opportunity to explore specific topics in evolutionary computation bio inspired computing and metaheuristics PPSN 2012 also included 8 tutorials The papers are organized in topical sections on evolutionary computation machine learning classifier systems image processing experimental analysis encoding EDA GP multiobjective optimization swarm intelligence collective behavior coevolution and robotics memetic algorithms hybridized techniques meta and hyperheuristics and applications   *Classification and Learning Using Genetic Algorithms* Sanghamitra Bandyopadhyay,Sankar Kumar Pal,2007-05-17 This book provides a unified framework that describes how genetic learning can be used to design pattern recognition and learning systems It examines how a search technique the genetic algorithm can be used for pattern classification mainly through approximating decision

boundaries Coverage also demonstrates the effectiveness of the genetic classifiers vis vis several widely used classifiers including neural networks   *Multiobjective Problem Solving from Nature* Joshua Knowles,David Corne,Kalyanmoy Deb,2008-01-28 This text examines how multiobjective evolutionary algorithms and related techniques can be used to solve problems particularly in the disciplines of science and engineering Contributions by leading researchers show how the concept of multiobjective optimization can be used to reformulate and resolve problems in areas such as constrained optimization co evolution classification inverse modeling and design   **Parallel Problem Solving from Nature - PPSN IX** Thomas Philip Runarsson,2006-09-13 This book constitutes the refereed proceedings of the 9th International Conference on Parallel Problem Solving from Nature PPSN 2006 The book presents 106 revised full papers covering a wide range of topics from evolutionary computation to swarm intelligence and bio inspired computing to real world applications These are organized in topical sections on theory new algorithms applications multi objective optimization evolutionary learning as well as representations operators and empirical evaluation   *Parallel Problem Solving from Nature -- PPSN XIII* Thomas Bartz-Beielstein,Juergen Branke,Bogdan Filipič,James Smith,2014-09-11 This book constitutes the refereed proceedings of the 13th International Conference on Parallel Problem Solving from Nature PPSN 2013 held in Ljubljana Slovenia in September 2014 The total of 90 revised full papers were carefully reviewed and selected from 217 submissions The meeting began with 7 workshops which offered an ideal opportunity to explore specific topics in evolutionary computation bio inspired computing and metaheuristics PPSN XIII also included 9 tutorials The papers are organized in topical sections on adaption self adaption and parameter tuning classifier system differential evolution and swarm intelligence coevolution and artificial immune systems constraint handling dynamic and uncertain environments estimation of distribution algorithms and metamodelling genetic programming multi objective optimisation parallel algorithms and hardware implementations real world applications and theory   **Parallel Problem Solving from Nature, PPSN XI** Robert Schaefer,Carlos Cotta,Joanna Kolodziej,Günter Rudolph,2010-09-13 We are very pleased to present to you this LNCS volume the proceedings of the 11th International Conference on Parallel Problem Solving from Nature PPSN 2010 PPSN is one of the most respected and highly regarded c ference series in evolutionary computation and indeed in natural computation aswell Thisbiennialeventwas rstheldinDortmundin1990 andtheninBr sels 1992 Jerusalem 1994 Berlin 1996 Amsterdam 1998 Paris 2000 Granada 2002 Birmingham 2004 Reykjavik 2006 and again in Dortmund in 2008 PPSN 2010 received 232 submissions After an extensive peer review p cess involving more than 180 reviewers the program committee chairs went through all the review reports and ranked the papers according to the revi ers comments Each paper wasevaluated by at least three reviewers Additional reviewers from the appropriate branches of science were invoked to review into disciplinary papers The top 128 papers were nally selected for inclusion in the proceedings and presentation at the conference This represents an acceptance rate of 55% which guarantees that PPSN will continue to be one of the c ferences of choice for bio inspired computing and metaheuristics

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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   Matrix Analysis and Applications Xian-Da Zhang,2017-10-05 The theory methods and applications of matrix analysis are presented here in a novel theoretical framework   *Computational Models of Learning* Leonard Bolc,2012-12-06 In recent years machine learning has emerged as a significant area of research in artificial intelligence and cognitive science At present research in the field is being intensified from both the point of view of theory and of implementation and the results are being introduced in practice Machine learning has recently become the subject of interest of many young and talented scientists whose bold ideas have greatly contributed to the broadening of knowledge in this rapidly developing field of science This situation has manifested itself in an increasing number of valuable contributions to scientific journals However such papers are necessarily compact descriptions of research problems Computational Models of Learning supplements these contributions and is a collection of more extensive essays These essays provide the reader with an increased knowledge of carefully selected problems of machine learning   *New Solutions for an Old Challenge* Ronny Merkel,2014 In criminal investigations latent fingerprints are often considered as reliable means of identifying suspects However the evidential value of a print is strongly dependent on the knowledge of its age the time which has passed since deposition Suspects might admit their previous presence at a crime scene but often claim to have been there prior to or after the crime Especially in regard to public or highly frequented crime scenes prints might lose their evidential value in this case potentially leading to dropped charges Despite its high relevance the challenge of estimating a latent print s age could not be adequately addressed for 80 years In this thesis non invasive high resolution capturing devices are for the first time applied to the age estimation challenge replacing classical physical or chemical print development techniques They allow to capture a single print in regular time intervals and to systematically study its degradation behavior Introducing automated processing methods in the form of a digital pipeline including preprocessing feature extraction and age estimation techniques objective age estimates are presented for the first time in this field Maximum classification performances of different capturing devices between 76% and 86% are achieved for two class problems Furthermore a qualitative influence model on the aging speed of latent prints is designed forming a prerequisite for future studies

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