Probability And Statistics For Computer Scientists

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in modern computer science software engineering and other fields the need arises to make decisions under uncertainty presenting probability and statistical methods simulation techniques and modeling tools probability and statistics for computer scientists helps students

solve problems and make optimal decisions in uncertain conditions

this textbook provides an introduction to statistics for computer users or computer science undergraduates the main emphasis here is on how to use the computer to understand statistics and to facilitate statistical computation since the stress is on the basic concepts the mathematics is kept as simple as possible programming exercises are included in every chapter which can be run on any present day microcomputer this book provides a prerequisite for more complicated statistical procedures or individual special applications

comprehensive and thorough development of both probability and statistics for serious computer scientists goal oriented to present the mathematical analysis underlying probability results special emphases on simulation and discrete decision theory mathematically rich but self contained text at a gentle pace review of calculus and linear algebra in an appendix mathematical interludes in each chapter which examine mathematical techniques in the context of probabilistic or statistical importance numerous section exercises summaries historical notes and further readings for reinforcement of content

this textbook gives an overview of statistical methods that have been developed during the last years due to increasing computer use including random number generators monte carlo methods markov chain monte carlo mcmc methods bootstrap em algorithms simex variable selection density estimators kernel estimators orthogonal and local polynomial estimators wavelet estimators splines and model assessment computer intensive methods in statistics is written for students at graduate level but can also be used by practitioners features presents the main ideas of computer intensive statistical methods gives the algorithms for all the methods uses various plots and illustrations for explaining the main ideas features the theoretical backgrounds of the main methods includes r codes for the methods and examples silvelyn zwanzig is an associate professor for mathematical statistics at uppsala university she studied mathematics at the humboldt university in berlin before coming to sweden she was assistant professor at the university of hamburg in germany she received her ph d in mathematics at the academy of sciences of the gdr since 1991 she has taught statistics for undergraduate and graduate students her research interests have moved from theoretical statistics to computer intensive statistics behrang mahjani is a postdoctoral fellow with a ph d in scientific computing with a focus on computational statistics from uppsala university sweden he joined the seaver autism center for research and treatment at the icahn school of medicine at mount sinai new york in september 2017 and was formerly a postdoctoral fellow at the karolinska institutet stockholm sweden his research is focused on solving large scale problems through statistical and computational methods

this textbook is aimed at computer science undergraduates late in sophomore or early in

junior year supplying a comprehensive background in qualitative and quantitative data analysis probability random variables and statistical methods including machine learning with careful treatment of topics that fill the curricular needs for the course probability and statistics for computer science features a treatment of random variables and expectations dealing primarily with the discrete case a practical treatment of simulation showing how many interesting probabilities and expectations can be extracted with particular emphasis on markov chains a clear but crisp account of simple point inference strategies maximum likelihood bayesian inference in simple contexts this is extended to cover some confidence intervals samples and populations for random sampling with replacement and the simplest hypothesis testing a chapter dealing with classification explaining why it s useful how to train svm classifiers with stochastic gradient descent and how to use implementations of more advanced methods such as random forests and nearest neighbors a chapter dealing with regression explaining how to set up use and understand linear regression and nearest neighbors regression in practical problems a chapter dealing with principal components analysis developing intuition carefully and including numerous practical examples there is a brief description of multivariate scaling via principal coordinate analysis a chapter dealing with clustering via agglomerative methods and k means showing how to build vector quantized features for complex signals illustrated throughout each main chapter includes many worked examples and other pedagogical elements such as boxed procedures definitions useful facts and remember this short tips problems and programming exercises are at the end of each chapter with a summary of what the reader should know instructor resources include a full set of model solutions for all problems and an instructor s manual with accompanying presentation slides

tabulations graphical representations and properties of observed distributions the numerical characteristics of observed distributions introduction to fortran programming the fundamental of fortran fortran lists and loops mathematical models for discrete random variables mathematical models for continuous random variables fundamentals of sampling theory applications of sampling theory introduction to statistical decision making statistical applications of decision theory regression and correlation an introduction to experimental design other uses of the chi square distribution sample survey design statistical classification

an accessible introduction to probability stochastic processes and statistics for computer science and engineering applications second edition now also available in paperback this updated and revised edition of the popular classic first edition relates fundamental concepts in probability and statistics to the computer sciences and engineering the author uses markov chains and other statistical tools to illustrate processes in reliability of computer systems and networks fault tolerance and performance this edition features an entirely new section on stochastic

petri nets as well as new sections on system availability modeling wireless system modeling numerical solution techniques for markov chains and software reliability modeling among other subjects extensive revisions take new developments in solution techniques and applications into account and bring this work totally up to date it includes more than 200 worked examples and self study exercises for each section probability and statistics with reliability queuing and computer science applications second edition offers a comprehensive introduction to probability stochastic processes and statistics for students of computer science electrical and computer engineering and applied mathematics its wealth of practical examples and up to date information makes it an excellent resource for practitioners as well an instructor s manual presenting detailed solutions to all the problems in the book is available from the wiley editorial department

this volume presents a selection of research papers on various topics at the interface of statistics and computer science emphasis is put on the practical applications of statistical methods in various disciplines using machine learning and other computational methods the book covers fields of research including the design of experiments computational statistics music data analysis statistical process control biometrics industrial engineering and econometrics gathering innovative high quality and scientifically relevant contributions the volume was published in honor of claus weihs professor of computational statistics at tu dortmund university on the occasion of his 66th birthday

this textbook consists of three parts basic concepts of statistics advanced statistical methods and design and analysis for medical research each chapter begins with challenging medical problems and related statistical methods and theories to make the statistical ideas more easily understood there is a section of computer experiments in each chapter where some basic statistical phenomena and related concepts are revealed the statistical software sas is used to carry out related statistical calculations the aim of this book is to make medical students and researchers grasp easily the most useful tools of statistics for their medical research it is done through various applications to a great number of medical problems interesting demonstration of well designed computer experiments and detailed explanation of statistical thinking

this comprehensive text uses a conversational writing style to make the material covered less intimidating for students it fully integrates the use of computers with statistics but can still be used by those desiring a more traditional calculator based approach

this textbook on computational statistics presents tools and concepts of univariate and multivariate statistical data analysis with a strong focus on applications and implementations in the statistical software r it covers mathematical statistical as well as programming problems

in computational statistics and contains a wide variety of practical examples in addition to the numerous r sniplets presented in the text all computer programs quantlets and data sets to the book are available on github and referred to in the book this enables the reader to fully reproduce as well as modify and adjust all examples to their needs the book is intended for advanced undergraduate and first year graduate students as well as for data analysts new to the job who would like a tour of the various statistical tools in a data analysis workshop the experienced reader with a good knowledge of statistics and programming might skip some sections on univariate models and enjoy the various ma thematical roots of multivariate techniques the quantlet platform quantlet de quantlet com quantlet org is an integrated quantnet environment consisting of different types of statistics related documents and program codes its goal is to promote reproducibility and offer a platform for sharing validated knowledge native to the social web quantnet and the corresponding data driven documents based visualization allows readers to reproduce the tables pictures and calculations inside this springer book

taken literally the title all of statistics is an exaggeration but in spirit the title is apt as the book does cover a much broader range of topics than a typical introductory book on mathematical statistics this book is for people who want to learn probability and statistics quickly it is suitable for graduate or advanced undergraduate students in computer science mathematics statistics and related disciplines the book includes modern topics like non parametric curve estimation bootstrapping and classification topics that are usually relegated to follow up courses the reader is presumed to know calculus and a little linear algebra no previous knowledge of probability and statistics is required statistics data mining and machine learning are all concerned with collecting and analysing data

the twenty first century has seen a breathtaking expansion of statistical methodology both in scope and influence data science and machine learning have become familiar terms in the news as statistical methods are brought to bear upon the enormous data sets of modern science and commerce how did we get here and where are we going how does it all fit together now in paperback and fortified with exercises this book delivers a concentrated course in modern statistical thinking beginning with classical inferential theories bayesian frequentist fisherian individual chapters take up a series of influential topics survival analysis logistic regression empirical bayes the jackknife and bootstrap random forests neural networks markov chain monte carlo inference after model selection and dozens more the distinctly modern approach integrates methodology and algorithms with statistical inference each chapter ends with class tested exercises and the book concludes with speculation on the future direction of statistics and data science

the 13th symposium on the interface continued this series after a one year pause the objective of these symposia is to provide a forum for the interchange of ideas of common concern to computer scientists and statisticians the sessions of the 13th symposium were held in the pittsburgh hilton hotel gateway center pittsburgh following established custom the 13th symposium had organized workshops on various topics of interest to participants the workshop format allowed the invited speakers to present their material variously as formal talks tutorial sessions and open discussion the symposium schedule was also the customary one registration opened in late afternoon of march 11 1981 and continued during the opening mixer held that evening the formal opening of the symposium was on the morning of march 12 the opening remarks were followed by bradley efron s address statistical theory and the computer the rest of the daily schedule was three concurrent workshops in the morningand three in the afternoon with contributed poster sessions during the noon break additionally there were several commercial displays and guided tours of carnegie mellon university s computer center computer science research facilities and robotics institute

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