

# Probability And Statistics For Computer Science

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Probability and Statistics for Computer Scientists  
Contemporary Statistics  
Statistics and Computer Methods in BASIC  
Computer Intensive Methods in Statistics  
Understanding and Learning Statistics by Computer  
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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

student friendly coverage of probability statistical methods simulation and modeling tools incorporating feedback from instructors and researchers who used the previous edition probability and statistics for computer scientists second edition helps students understand general methods of stochastic modeling simulation and data analysis make o

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 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

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

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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

probability statistics and queueing theory with computer science applications focuses on the use of statistics and queueing theory for the design and analysis of data communication systems emphasizing how the theorems and theory can be used to solve practical computer science problems this book is divided into three parts the first part discusses the basic concept of probability probability distributions commonly used in applied probability and important concept of a stochastic process part ii covers the discipline of queueing theory while part iii deals with statistical inference this publication is designed as a junior senior level textbook on applied probability and statistics with computer science applications but is also a self study book for practicing computer science data processing professionals

now in paperback and fortified with exercises this brilliant enjoyable text demystifies data science statistics and machine learning

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