



Introduction to Computation and Programming Using Python

Revised and Expanded Edition

John V. Guttag

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Computational Modeling and Visualization of Physical Systems with Python Jay Wang, 2015-12-21 Computational Modeling by Jay Wang introduces computational modeling and visualization of physical systems that are commonly found in physics and related areas The authors begin with a framework that integrates model building algorithm development and data visualization for problem solving via scientific computing Through carefully selected problems methods and projects the reader is guided to learning and discovery by actively doing rather than just knowing physics

[Introduction to Computation and Programming Using Python, third edition](#) John V. Guttag, 2021-01-05 The new edition of an introduction to the art of computational problem solving using Python This book introduces students with little or no prior programming experience to the art of computational problem solving using Python and various Python libraries including numpy matplotlib random pandas and sklearn It provides students with skills that will enable them to make productive use of computational techniques including some of the tools and techniques of data science for using computation to model and interpret data as well as substantial material on machine learning All of the code in the book and an errata sheet are available on the book's web page on the MIT Press website

Univariate, Bivariate, and Multivariate Statistics Using R Daniel J. Denis, 2020-04-14 A practical source for performing essential statistical analyses and data management tasks in R Univariate Bivariate and Multivariate Statistics Using R offers a practical and very user friendly introduction to the use of R software that covers a range of statistical methods featured in data analysis and data science The author a noted expert in quantitative teaching has written a quick go to reference for performing essential statistical analyses and data management tasks in R Requiring only minimal prior knowledge the book introduces concepts needed for an immediate yet clear understanding of statistical concepts essential to interpreting software output The author explores univariate bivariate and multivariate statistical methods as well as select nonparametric tests Altogether a hands on manual on the applied statistics and essential R computing capabilities needed to write theses dissertations as well as research publications The book is comprehensive in its coverage of univariate through to multivariate procedures while serving as a friendly and gentle introduction to R software for the newcomer This important resource Offers an introductory concise guide to the computational tools that are useful for making sense out of data using R statistical software Provides a resource for students and professionals in the social behavioral and natural sciences Puts the emphasis on the computational tools used in the discovery of empirical patterns Features a variety of popular statistical analyses and data management tasks that can be immediately and quickly applied as needed to research projects Shows how to apply statistical analysis using R to data sets in order to get started quickly performing essential tasks in data analysis and data science Written for students

professionals and researchers primarily in the social behavioral and natural sciences Univariate Bivariate and Multivariate Statistics Using R offers an easy to use guide for performing data analysis fast with an emphasis on drawing conclusions from empirical observations The book can also serve as a primary or secondary textbook for courses in data analysis or data science or others in which quantitative methods are featured

Computational Physics Rubin H. Landau, Manuel J. Páez, Cristian C. Bordeianu, 2024-03-25 The classic in the field for more than 25 years now with increased emphasis on data science and new chapters on quantum computing machine learning AI and general relativity Computational physics combines physics applied mathematics and computer science in a cutting edge multidisciplinary approach to solving realistic physical problems It has become integral to modern physics research because of its capacity to bridge the gap between mathematical theory and real world system behavior Computational Physics provides the reader with the essential knowledge to understand computational tools and mathematical methods well enough to be successful Its philosophy is rooted in learning by doing assisted by many sample programs in the popular Python programming language The first third of the book lays the fundamentals of scientific computing including programming basics stable algorithms for differentiation and integration and matrix computing The latter two thirds of the textbook cover more advanced topics such linear and nonlinear differential equations chaos and fractals Fourier analysis nonlinear dynamics and finite difference and finite elements methods A particular focus in on the applications of these methods for solving realistic physical problems Readers of the fourth edition of Computational Physics will also find An exceptionally broad range of topics from simple matrix manipulations to intricate computations in nonlinear dynamics A whole suite of supplementary material Python programs Jupyter notebooks and videos Computational Physics is ideal for students in physics engineering materials science and any subjects drawing on applied physics

Introduction to Media Computation Mark Guzdial, 2005 *Dr. Dobb's Journal*, 2004 *Entertainment Computing and Serious Games* Ralf Dörner, Stefan Göbel, Michael Kickmeier-Rust, Maic Masuch, Katharina Zweig, 2016-10-05 The aim of this book is to collect and to cluster research areas in the field of serious games and entertainment computing It provides an introduction and gives guidance for the next generation of researchers in this field The 18 papers presented in this volume together with an introduction are the outcome of a GI Dagstuhl seminar which was held at Schlo Dagstuhl in July 2015

Sys Admin, 2004 *Proceedings of the ... ACM CIKM*, 2003 *Data-Driven Security* Jay Jacobs, Bob Rudis, 2014-02-24 Uncover hidden patterns of data and respond with countermeasures Security professionals need all the tools at their disposal to increase their visibility in order to prevent security breaches and attacks This careful guide explores two of the most powerful data analysis and visualization You ll soon understand how to harness and wield data from collection and storage to management and analysis as well as visualization and presentation Using a hands on approach with real world examples this book shows you how to gather feedback measure the effectiveness of your security methods and make better decisions Everything in this book will have practical application for information security professionals Helps IT

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Introduction to Computation and Programming Using Python, second edition John V. Guttag,2016-08-08 The new edition of an introductory text that teaches students the art of computational problem solving covering topics ranging from simple algorithms to information visualization This book introduces students with little or no prior programming experience to the art of computational problem solving using Python and various Python libraries including PyLab It provides students with skills that will enable them to make productive use of computational techniques including some of the tools and techniques of data science for using computation to model and interpret data The book is based on an MIT course which became the most popular course offered through MIT s OpenCourseWare and was developed for use not only in a conventional classroom but in in a massive open online course MOOC This new edition has been updated for Python 3 reorganized to make it easier to use for courses that cover only a subset of the material and offers additional material including five new chapters Students are introduced to Python and the basics of programming in the context of such computational concepts and techniques as exhaustive enumeration bisection search and efficient approximation algorithms Although it covers such traditional topics as computational complexity and simple algorithms the book focuses on a wide range of topics not found in most introductory texts including information visualization simulations to model randomness computational techniques to understand data and statistical techniques that inform and misinform as well as two related but relatively advanced topics optimization problems and dynamic programming This edition offers expanded material on statistics and machine learning and new chapters on Frequentist and Bayesian statistics

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