

Introduction To Probability Bertsekas 2nd Edition

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an intuitive yet precise introduction to probability theory stochastic processes statistical inference and probabilistic models used in science engineering economics and related fields this is the currently used textbook for an introductory probability course at the massachusetts institute of technology attended by a large number of undergraduate and graduate students and for a leading online class on the subject the book covers the fundamentals of probability theory probabilistic models discrete and continuous random variables multiple random variables and limit theorems which are typically part of a first course on the subject it also contains a number of more advanced topics including transforms sums of random variables a fairly detailed introduction to bernoulli poisson and markov processes bayesian inference and an introduction to classical statistics the book strikes a balance between simplicity in exposition and sophistication in analytical reasoning some of the more mathematically rigorous analysis is explained intuitively in the main text and then developed in detail at the level of advanced calculus in the numerous solved theoretical problems

this revised textbook motivates and illustrates the techniques of applied probability by applications in electrical engineering and computer science eecs the author presents information processing and communication systems that use algorithms based on probabilistic models and techniques including web searches digital links speech recognition gps route planning recommendation systems classification and estimation he then explains how these applications work and along the way provides the readers with the understanding of the key concepts and methods of applied probability python labs enable the readers to experiment and consolidate their understanding the book includes homework solutions and jupyter notebooks this edition includes new topics such as boosting multi armed bandits statistical tests social networks queuing networks

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a thought provoking look at statistical learning theory and its role in understanding human learning and inductive reasoning a joint endeavor from leading researchers in the fields of philosophy and electrical engineering an elementary introduction to statistical learning theory is a comprehensive and accessible primer on the rapidly evolving fields of statistical pattern recognition and statistical learning theory explaining these areas at a level and in a way that is not often found in other books on the topic the authors present the basic theory behind contemporary machine learning and uniquely utilize its foundations as a framework for philosophical thinking about inductive inference promoting the fundamental goal of statistical learning knowing what is achievable and what is not this book demonstrates the value of a systematic methodology when used along with the needed techniques for evaluating the performance of a learning system first an introduction to machine learning is presented that includes brief discussions of applications such as image recognition speech recognition medical diagnostics and statistical arbitrage to enhance accessibility two chapters on relevant aspects of probability theory are provided subsequent chapters feature coverage of topics such as the pattern recognition problem optimal bayes decision rule the nearest neighbor rule kernel rules neural networks support vector machines and boosting appendices throughout the book explore the relationship between the discussed material and related topics from mathematics philosophy psychology and statistics drawing insightful connections between problems in these areas and statistical learning theory all chapters conclude with a summary section a set of practice questions and a reference sections that supplies historical notes and additional resources for further study an elementary

introduction to statistical learning theory is an excellent book for courses on statistical learning theory pattern recognition and machine learning at the upper undergraduate and graduate levels it also serves as an introductory reference for researchers and practitioners in the fields of engineering computer science philosophy and cognitive science that would like to further their knowledge of the topic

performance optimization is vital in the design and operation of modern engineering systems including communications manufacturing robotics and logistics most engineering systems are too complicated to model or the system parameters cannot be easily identified so learning techniques have to be applied this is a multi disciplinary area which has been attracting wide attention across many disciplines areas such as perturbation analysis pa in discrete event dynamic systems dedss markov decision processes mdps in operations research reinforcement learning rl or neuro dynamic programming ndp in computer science identification and adaptive control i ac in control systems share the common goal to make the best decision to optimize system performance this book provides a unified framework based on a sensitivity point of view it also introduces new approaches and proposes new research topics within this sensitivity based framework

arabic versions of the new testament have been overlooked for too long the sinai new finds of 1975 unearthed codex sinaiticus arabicus which preserves an arabic translation of the gospels differing markedly from the majority text here robert turnbull undertakes a wide ranging study of this version discovering many lectionary manuscripts with the same text several open access datasets are made available bayesian phylogenetics and other computational techniques are used to draw insights into the transmission history of this version and its place in the wider new testament textual tradition this arabic version will be indispensable in future textual scholarship on the gospels

a unified framework for developing planning and control algorithms for active sensing with examples of applications for specific sensor technologies active sensor systems increasingly deployed in such applications as unmanned vehicles mobile robots and environmental monitoring are characterized by a high degree of autonomy

reconfigurability and redundancy this book is the first to offer a unified framework for the development of planning and control algorithms for active sensing with examples of applications for a range of specific sensor technologies the methods presented can be characterized as information driven because their goal is to optimize the value of information rather than to optimize traditional guidance and navigation objectives

while helping students to develop their problem solving skills the author motivates students with practical applications from various areas of ece that demonstrate the relevance of probability theory to engineering practice

how can we train powerful machine learning models together across smartphones hospitals or financial institutions without ever sharing raw data this book delivers a compelling answer through the lens of federated learning fl a cutting edge paradigm for decentralized privacy preserving machine learning designed for students engineers and researchers this book offers a principled yet practical roadmap to building secure scalable and trustworthy fl systems from scratch at the heart of this book is a unifying framework that treats fl as a network regularized optimization problem this elegant formulation allows readers to seamlessly address personalization robustness and fairness challenges often tackled in isolation you ll learn how to structure fl networks based on task similarity leverage graph based methods and apply distributed optimization techniques to implement fl systems detailed pseudocode intuitive explanations and implementation ready algorithms ensure you not only understand the theory but can apply it in real world systems topics such as privacy leakage analysis model heterogeneity and adversarial resilience are treated with both mathematical rigor and accessibility whether you re building decentralized ai for regulated industries or in settings where data users or system conditions change over time this book equips you to design fl systems that are both performant and trustworthy

for graduate level neural network courses offered in the departments of computer engineering electrical engineering and computer science renowned for its thoroughness and readability this well organized and completely up to date text remains the most comprehensive treatment of neural networks from an engineering perspective matlab

codes used for the computer experiments in the text are available for download at pearsonhighered.com haykin refocused revised and renamed to reflect the duality of neural networks and learning machines this edition recognizes that the subject matter is richer when these topics are studied together ideas drawn from neural networks and machine learning are hybridized to perform improved learning tasks beyond the capability of either independently

cooperative and graph signal processing principles and applications presents the fundamentals of signal processing over networks and the latest advances in graph signal processing a range of key concepts are clearly explained including learning adaptation optimization control inference and machine learning building on the principles of these areas the book then shows how they are relevant to understanding distributed communication networking and sensing and social networks finally the book shows how the principles are applied to a range of applications such as big data media and video smart grids internet of things wireless health and neuroscience with this book readers will learn the basics of adaptation and learning in networks the essentials of detection estimation and filtering bayesian inference in networks optimization and control machine learning signal processing on graphs signal processing for distributed communication social networks from the perspective of flow of information and how to apply signal processing methods in distributed settings presents the first book on cooperative signal processing and graph signal processing provides a range of applications and application areas that are thoroughly covered includes an editor in chief and associate editor from the iee transactions on signal processing and information processing over networks who have recruited top contributors for the book

artificial intelligence a modern approach 3e is ideal for one or two semester undergraduate or graduate level courses in artificial intelligence it is also a valuable resource for computer professionals linguists and cognitive scientists interested in artificial intelligence the revision of this best selling text offers the most comprehensive up to date introduction to the theory and practice of artificial intelligence

introduction to probability 2nd edition biographical sketch dimitri p bertsekas

undergraduate studies were in engineering at the national technical university of athens greece he obtained his ms in electrical engineering at the george washington university wash dc in 1969 and his ph d in system science in 1971 at the massachusetts institute of technology dr bertsekas has held faculty positions with the engineering economic systems dept stanford university 1971 1974 and the electrical engineering dept of the university of illinois urbana 1974 1979 since 1979 he has been teaching at the electrical engineering and computer science department of the massachusetts institute of technology m i t where he is currently mcafee professor of engineering he has held editorial positions in several journals his research at m i t spans several fields including optimization control large scale computation and data communication networks and is closely tied to his teaching and book authoring activities he has written numerous research papers and sixteen books and research monographs several of which are used as textbooks in mit classes professor bertsekas was awarded the informs 1997 prize for research excellence in the interface between operations research and computer science for his book neuro dynamic programming co authored with john tsitsiklis the 2000 greek national award for operations research the 2001 acc john r ragazzini education award the 2009 informs expository writing award the 2014 acc richard e bellman control heritage award for contributions to the foundations of deterministic and stochastic optimization based methods in systems and control the 2014 khachiyan prize for life time accomplishments in optimization and the siam mos 2015 george b dantzig prize in 2001 he was elected to the united states national academy of engineering for pioneering contributions to fundamental research practice and education of optimization control theory and especially its application to data communication networks dr bertsekas recent books are introduction to probability 2nd edition 2008 convex optimization theory 2009 dynamic programming and optimal control vol i 2017 and vol ii approximate dynamic programming 2012 abstract dynamic programming 2013 and convex optimization algorithms 2015 all published by athena scientific besides his professional activities professor bertsekas is interested in travel portrait and landscape photography his pictures have been exhibited on several occasions at m i t and can also be accessed from his site

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