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The Annotated Turing Springer Nature

In this age of information overload, people use a variety of strategies to make choices about what to buy, how to spend their leisure time, and even whom to date. Recommender systems automate some of these strategies with the goal of providing affordable, personal, and high-quality recommendations. This book offers an overview of approaches to developing state-of-the-art recommender systems. The authors present current algorithmic approaches for generating personalized buying proposals, such as collaborative and content-based filtering, as well as more interactive and knowledge-based approaches. They also discuss how to measure the effectiveness of recommender systems and illustrate the methods with practical case studies. The final chapters cover emerging topics such as recommender systems in the social web and consumer buying behavior theory. Suitable for computer science researchers and students interested in getting an overview of the field, this book will also be useful for professionals looking for the right technology to build real-world recommender systems. Library and Information Sciences Prentice-Hall PTR After interviewing fifty of the world's greatest financial minds and penning the #1 New York Times bestseller *Money: Master the Game*, Tony Robbins returns with a step-by-step playbook, taking you on a journey to transform your financial life and accelerate your path to financial freedom. No matter your salary, your stage of life, or when you started, this book will provide the tools to help you achieve your financial goals more rapidly than you ever thought

possible. Robbins, who has coached more than fifty million people from 100 countries, is the world's #1 life and business strategist. In this book, he teams up with Peter Mallouk, the only man in history to be ranked the #1 financial advisor in the US for three consecutive years by Barron's. Together they reveal how to become unshakeable--someone who can not only maintain true peace of mind in a world of immense uncertainty, economic volatility, and unprecedented change, but who can profit from the fear that immobilizes so many. In these pages, through plain English and inspiring stories, you'll discover... -How to put together a simple, actionable plan that can deliver true financial freedom. -Strategies from the world's top investors on how to protect yourself and your family and maximize profit from the inevitable crashes and corrections to come. -How a few simple steps can add a decade or more of additional retirement income by discovering what your 401(k) provider doesn't want you to know. -The core four principles that most of the world's greatest financial minds utilize so that you can maximize upside and minimize downside. -The fastest way to put money back in your pocket: uncover the hidden fees and half truths of Wall Street--how the biggest firms keep you overpaying for underperformance. -Master the mindset of true wealth and experience the fulfillment you deserve today. [Artificial Intelligence on Fashion and Textiles](#) Springer

This book explores the development, trends and research of library and information sciences (LIS) in the digital age. Inside, readers will find research and case studies written by LIS experts, educators and theorists, most of whom have visited China, delivered presentations there and drafted their articles based on feedback they received. As a result, readers will discover the LIS issues and concerns that China and the international community have in common. The book first introduces the opportunities and challenges faced by the library and information literacy profession and discusses the key role of librarians in the future of information literacy education. Next, it covers trends in LIS education by examining the vision of the iSchool movement and detailing its practice in Syracuse University. The book then covers issues in information seeking and retrieval by

showing how visual data mining technology can be used to detect the relationship and pattern between terms on the Q&A of a social media site. It also includes a case study regarding tracing information seeking behavior and usage on a multimedia website. Next, the book stresses the importance of building an academic accreditation framework for scientific datasets, explores the relationship between bibliometrics and university rankings, and details the birth and development of East Asian Libraries in North America. Overall, the book offers readers insight into the changing nature of LIS, including the electronic dissemination of information, the impact of the Internet on libraries, the changing responsibilities of library professionals, the new paradigm for evaluating information, and characteristics and functions of today's library personnel.

Credit Risk Measurement CRC Press

This open access book provides an overview of the recent advances in representation learning theory, algorithms and applications for natural language processing (NLP). It is divided into three parts. Part I presents the representation learning techniques for multiple language entries, including words, phrases, sentences and documents. Part II then introduces the representation techniques for those objects that are closely related to NLP, including entity-based world knowledge, sememe-based linguistic knowledge, networks, and cross-modal entries. Lastly, Part III provides open resource tools for representation learning techniques, and discusses the remaining challenges and future research directions. The theories and algorithms of representation learning presented can also benefit other related domains such as machine learning, social network analysis, semantic Web, information retrieval, data mining and computational biology. This book is intended for advanced undergraduate and graduate students, post-doctoral fellows, researchers, lecturers, and industrial engineers, as well as anyone interested in representation learning and natural language processing.

LabVIEW for Everyone John Wiley & Sons

International relations are generally understood as a realm of anarchy in which countries lack any superior authority and interact within a Hobbesian state of nature. In *Hierarchy in International Relations*, David A. Lake challenges this traditional view, demonstrating that states exercise authority over one another in international hierarchies that vary historically but are still pervasive today. Revisiting the concepts of authority and sovereignty, Lake offers a novel view of international relations in which states form social contracts that bind both dominant and subordinate members. The resulting hierarchies have significant effects on the foreign policies of states as well as patterns of international conflict and cooperation. Focusing largely on U.S.-led hierarchies in the contemporary world, Lake provides a compelling account of the origins, functions, and limits of political order in the modern international system. The book is a model of clarity in theory, research design, and the use of evidence. Motivated by concerns about the declining international legitimacy of the United States following the Iraq War, *Hierarchy in International Relations* offers a powerful analytic perspective that has important implications for understanding America's position in the world in the years ahead.

Nanophotonics University of Texas Press
Cluster analysis is an unsupervised process that divides a set of objects into homogeneous groups. This book starts with basic information on cluster analysis, including the classification of data and the corresponding similarity measures, followed by the presentation of over 50 clustering algorithms in groups according to some specific baseline methodologies such as hierarchical, center-based, and search-based methods. As a result, readers and users can easily identify an

appropriate algorithm for their applications and compare novel ideas with existing results. The book also provides examples of clustering applications to illustrate the advantages and shortcomings of different clustering architectures and algorithms. Application areas include pattern recognition, artificial intelligence, information technology, image processing, biology, psychology, and marketing. Readers also learn how to perform cluster analysis with the C/C++ and MATLAB programming languages.

Mathematics of Surfaces Cambridge University Press

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials

are offered on the book's web site.

Managing Innovation and Entrepreneurship Pearson Education

A comprehensive text on foundations and techniques of graph neural networks with applications in NLP, data mining, vision and healthcare.

Data Mining Applications with R Springer

The most cutting-edge read on the pricing, modeling, and management of credit risk available
The rise of credit risk measurement and the credit derivatives market started in the early 1990s and has grown ever since. For many professionals, understanding credit risk measurement as a discipline is now more important than ever. *Credit Risk Measurement, Second Edition* has been fully revised to reflect the latest thinking on credit risk measurement and to provide credit risk professionals with a solid understanding of the alternative approaches to credit risk measurement. This readable guide discusses the latest pricing, modeling, and management techniques available for dealing with credit risk. New chapters highlight the latest generation of credit risk measurement models, including a popular class known as intensity-based models. *Credit Risk Measurement, Second Edition* also analyzes significant changes in banking regulations that are impacting credit risk measurement at financial institutions. With fresh insights and updated information on the world of credit risk measurement, this book is a must-read reference for all credit risk professionals. Anthony Saunders (New York, NY) is the John M. Schiff Professor of Finance and Chair of the Department of Finance at the Stern School of Business at New York University. He holds positions on the Board of Academic Consultants of the Federal Reserve Board of Governors as well as the Council of Research Advisors for the Federal National Mortgage Association. He is the editor of the *Journal of Banking and Finance* and the *Journal of Financial Markets, Instruments and Institutions*. Linda Allen (New York, NY) is Professor of Finance at Baruch College and Adjunct Professor of Finance at the Stern School of Business at New York University. She also is author of *Capital Markets and Institutions: A Global View* (Wiley: 0471130494). Over the years, financial professionals around the world have looked to the Wiley Finance series and its wide

array of bestselling books for the knowledge, insights, and techniques that are essential to success in financial markets. As the pace of change in financial markets and instruments quickens, Wiley Finance continues to respond. With critically acclaimed books by leading thinkers on value investing, risk management, asset allocation, and many other critical subjects, the Wiley Finance series provides the financial community with information they want. Written to provide professionals and individuals with the most current thinking from the best minds in the industry, it is no wonder that the Wiley Finance series is the first and last stop for financial professionals looking to increase their financial expertise.

Graphene Photonics SAGE Publications

This book constitutes the refereed proceedings of the 10th IMA International Conference on the Mathematics of Surfaces, held in Leeds, UK in September 2003. The 25 revised full papers presented were carefully reviewed and selected from numerous submissions. Among the topics addressed are triangulated surface parameterization, bifurcation structures, control vertex computation, polyhedral surfaces, watermarking 3D polygonal meshed, subdivision surfaces, surface reconstruction, vector transport, shape from shading, surface height recovery, algebraic surfaces, box splines, the Plateau-Bezier problem, spline geometry, generative geometry, manifold representation, affine arithmetic, and PDE surfaces.

Crisis Decisionmaking Springer

Provides an expansion of Turing's original paper, a brief look at his life, and information on the Turing machine and computability topics.

Representation Learning for Natural Language

Processing Cambridge University Press

Building a verbal-visual architecture : the RCAF's new world mestizo/a art -- Performing la mujer nueva : Chicana art work in the RCAF -- Heroic foundations : Chicano/a heroes in family, farmwork, and war -- Between the aesthetic and the instrumental : free association, collectivism, and

making space for Chicano/a art -- From front to force : the RCAF's air force persona and the performance of an archive

Mining Intelligence and Knowledge Exploration IGI Global

This lecture presents research on a general framework for perceptual organization that was contacted mainly at the Institute for Robotics and Intelligent Systems of the University of Southern California. It is not written as a historical recount of the work, since the sequence of the presentation is not in chronological order. It aims at presenting an approach to a wide range of problems in computer vision and machine learning that is data-driven, local and requires a minimal number of assumptions. The tensor voting framework combines these properties and provides a unified perceptual organization methodology applicable in situations that may seem heterogeneous initially. Authors Philippos Mordohai and Gerard Medioni show how several problems can be posed as the organization of the inputs into salient perceptual structures, which are inferred via tensor voting. The book extends the original tensor voting framework with the addition of boundary inference capabilities, a novel re-formulation of the framework applicable to high-dimensional spaces and the development of algorithms for computer vision and machine learning problems. The authors provide complete analysis for some problems and briefly outline the approach for other applications and provide references to relevant sources.

Deep Learning on Graphs SIAM

The use of light-emitting proteins for the detection of biomolecules provides fast and sensitive methods which overcome the disadvantages of radioactive labels and the high cost of fluorescent dyes. This reference work summarizes modern advanced techniques and their applications and includes practical examples of assays based on photoproteins. The book presents contemporary key topics like luminescent marine organisms, DNA probes, reporter gene assays and photoproteins, ratiometric sensing, use of photoproteins for in vivo

functional imaging and luminescent proteins in binding assays, to name just a few, and is complemented by recent advances in instrumentation. Includes an introductory chapter by 2008 Chemistry Nobel laureate Osamu Shimomura.

Flying Under the Radar with the Royal Chicano Air Force Simon and Schuster

A comprehensive review of an area of machine learning that deals with the use of unlabeled data in classification problems: state-of-the-art algorithms, a taxonomy of the field, applications, benchmark experiments, and directions for future research. In the field of machine learning, semi-supervised learning (SSL) occupies the middle ground, between supervised learning (in which all training examples are labeled) and unsupervised learning (in which no label data are given). Interest in SSL has increased in recent years, particularly because of application domains in which unlabeled data are plentiful, such as images, text, and bioinformatics. This first comprehensive overview of SSL presents state-of-the-art algorithms, a taxonomy of the field, selected applications, benchmark experiments, and perspectives on ongoing and future research. Semi-Supervised Learning first presents the key assumptions and ideas underlying the field: smoothness, cluster or low-density separation, manifold structure, and transduction. The core of the book is the presentation of SSL methods, organized according to algorithmic strategies. After an examination of generative models, the book describes algorithms that implement the low-density separation assumption, graph-based methods, and algorithms that perform two-step learning. The book then discusses SSL applications and offers guidelines for SSL practitioners by analyzing the results of extensive benchmark experiments. Finally, the book looks at interesting directions for SSL research. The book closes with a discussion of the relationship between semi-supervised learning and transduction. **Algorithmic Aspects of Machine Learning** Psychology Press

All the fundamentals. No fluff. Learn more with less! A truly revolutionary American Government textbook, Christine Barbour's AmGov: Long Story

Short, responds to the needs of today's students and instructors through brevity and accessibility. The succinct ten chapters are separated by tabs that make it easy to skim, flip, revisit, reorient, and return to content quickly. Reading aids like bullets, annotations and arrows walk students through important facts and break up the material in short, engaging bites of information that highlight not only what is important but why it's important. Though brief, this core book is still robust enough to provide everything that students need to be successful in their American Government course. Whether for the on-the-go student who doesn't have time to read and digest a lengthy chapter, or the instructor who wants a book that will stay out of their way and leave room for plenty of supplementary reading and activities, AmGov provides a perfectly simplified foundation for a successful American Government course.

Radar Instruction Manual CRC Press

Semi-supervised learning is a learning paradigm concerned with the study of how computers and natural systems such as humans learn in the presence of both labeled and unlabeled data. Traditionally, learning has been studied either in the unsupervised paradigm (e.g., clustering, outlier detection) where all the data are unlabeled, or in the supervised paradigm (e.g., classification, regression) where all the data are labeled. The goal of semi-supervised learning is to understand how combining labeled and unlabeled data may change the learning behavior, and design algorithms that take advantage of such a combination. Semi-supervised learning is of great interest in machine learning and data mining because it can use readily available unlabeled data to improve supervised learning tasks when the labeled data are scarce or expensive. Semi-supervised learning also shows potential as a quantitative tool to understand human category learning, where most of the input

is self-evidently unlabeled. In this introductory book, we present some popular semi-supervised learning models, including self-training, mixture models, co-training and multiview learning, graph-based methods, and semi-supervised support vector machines. For each model, we discuss its basic mathematical formulation. The success of semi-supervised learning depends critically on some underlying assumptions. We emphasize the assumptions made by each model and give counterexamples when appropriate to demonstrate the limitations of the different models. In addition, we discuss semi-supervised learning for cognitive psychology. Finally, we give a computational learning theoretic perspective on semi-supervised learning, and we conclude the book with a brief discussion of open questions in the field.

Table of Contents: Introduction to Statistical Machine Learning / Overview of Semi-Supervised Learning / Mixture Models and EM / Co-Training / Graph-Based Semi-Supervised Learning / Semi-Supervised Support Vector Machines / Human Semi-Supervised Learning / Theory and Outlook

Handbook of Optofluidics CQ Press

The first book to look at innovation/entrepreneurship from an international perspective, *Managing Innovation and Entrepreneurship: A Global Perspective* provides a step-by-step process for managing innovation and entrepreneurship in an organization in both turbulent and stable economic times. Authors Robert D. Hisrich and Claudine Kearney demonstrate how to manage innovation on a day-to-day basis—using a wide range of real world scenarios, theories, principles, best practices, case studies, and modern examples. The book

provides detailed coverage of each aspect of the process of innovation required to achieve success, including what it takes to build an innovative and entrepreneurial organization, how to develop innovation and entrepreneurship in both individuals and teams, how to manage and operationalize innovation and entrepreneurship, how to develop a global business plan, and more.

Convolutional Neural Networks in Visual Computing MIT Press

Data Mining Applications with R is a great resource for researchers and professionals to understand the wide use of R, a free software environment for statistical computing and graphics, in solving different problems in industry. R is widely used in leveraging data mining techniques across many different industries, including government, finance, insurance, medicine, scientific research and more. This book presents 15 different real-world case studies illustrating various techniques in rapidly growing areas. It is an ideal companion for data mining researchers in academia and industry looking for ways to turn this versatile software into a powerful analytic tool. R code, Data and color figures for the book are provided at the RDataMining.com website. Helps data miners to learn to use R in their specific area of work and see how R can apply in different industries Presents various case studies in real-world applications, which will help readers to apply the techniques in their work Provides code examples and sample data for readers to easily learn the techniques by running the code by themselves

[Introduction to Semi-supervised Learning](#)
Springer

For beginning and intermediate LabVIEW

programmers, this introductory guide assumes no prior knowledge of LabVIEW. There are in-depth examples in every chapter, and all the answers and source code is provided on the accompanying CD-ROM.