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[Discrete Calculus](#) Springer Nature

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.

[Recommender Systems](#) John Wiley & Sons

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.

[Unsupervised Process Monitoring and Fault Diagnosis with Machine Learning Methods](#) Palgrave Macmillan

This book begins with the past and present of the subversive technology of artificial intelligence, clearly analyzes the overall picture, latest developments and development trends of the artificial intelligence industry, and conducts in-depth research on the competitive situation of various countries. The book also provides an in-depth analysis of the opportunities and challenges that artificial intelligence brings to individuals, businesses, and society. For readers who want to fully understand artificial intelligence, this book provides an important reference and is a must-read.

[Governing Habits](#) Springer Nature

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

[Deep Learning](#) Springer

Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

[Modern Algorithms of Cluster Analysis](#) Springer

Information Retrieval (IR) is concerned with the effective and efficient retrieval of information based on its semantic content. The central problem in IR is the quest to find the set of relevant documents, among a large collection containing the information sought, satisfying a user's information need usually expressed in a natural language query. Documents may be objects or items in any medium: text, image, audio, or indeed a mixture of all three. This book presents 12 revised lectures given at the Third European Summer School in Information Retrieval, ESSIR 2000, held at the Villa Monastero, Varenna, Italy, in September 2000. The first part of the book is devoted to the foundation of IR and related areas; the second part on advanced topics addresses various current issues, from usability aspects to Web searching and browsing.

[Condition Monitoring with Vibration Signals](#) Getty Publications

Identifying some of the most influential algorithms that are widely used in the data mining community, The Top Ten Algorithms in Data Mining provides a description of each algorithm, discusses its impact, and reviews current and future research. Thoroughly evaluated by independent reviewers, each chapter focuses on a particular algorithm and is wri

[Photoproteins in Bioanalysis](#) Springer Science & Business Media

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.

[Semi-Supervised Learning](#) MIT Press

An introductory textbook offering a low barrier entry to data science; the hands-on approach will appeal to students from a range of disciplines.

[Physics and Applications of Terahertz Radiation](#) Cambridge University Press

This work discusses research in theoretical and practical aspects of security in distributed systems, in particular in information systems and related security tools. Topics include XML-based management systems, security of multimedia data, and technology and use of smart cards.

[Handbook of Terahertz Technologies](#) Simon and Schuster

Data clustering, also known as cluster analysis, is an unsupervised process that divides a set of objects into homogeneous groups. Since the publication of the first edition of this monograph in 2007, development in the area has exploded, especially in clustering algorithms for big data and open-source software for cluster analysis. This second edition reflects these new developments, covers the basics of data clustering, includes a list of popular clustering algorithms, and provides program code that helps users implement clustering algorithms. Data Clustering: Theory, Algorithms and Applications, Second Edition will be of interest to researchers, practitioners, and data scientists as well as undergraduate and graduate students.

[Large-scale Kernel Machines](#) Springer Science & Business Media

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.

[Hierarchy in International Relations](#) Cambridge University Press

This book covers the latest advances in the techniques employed to manage the THz radiation and its potential uses. It has been subdivided in three sections: THz Detectors, THz Sources, Systems and Applications. These three sections will allow the reader to be introduced in a logical way to the physics problems of sensing and generation of the terahertz radiation, the implementation of these devices into systems including other components and finally the exploitation of the equipment for real applications in some different field. All of the sections and chapters can be individually addressed in order to deepen the understanding of a single topic without the need to read the whole book. The THz Detectors section will address the latest developments in detection devices based on three different physical principles: photodetection, thermal power detection, rectification. The THz Sources section will describe three completely different generation methods, operating in three separate scales: quantum cascade lasers, free electron lasers and non-linear optical generation. The Systems and Applications section will take care of introducing many of the aspects needed to move from a device to an equipment perspective: control of terahertz radiation, its use in imaging or in spectroscopy, potential uses in security, and will address also safety issues. The text book is at a level appropriate to graduate level courses up to researchers in the field who require a reference book covering all aspects of terahertz technology.

[Introduction to Information Retrieval](#) Springer

This monograph presents a systematic, yet accessible introduction to spectral methods from a modern statistical perspective. It is essential reading for all students, researchers and practitioners working in Data Science.

[Bioreactor Engineering Research and Industrial Applications II](#) CRC Press

This book review series presents current trends in modern biotechnology. The aim is to cover all aspects of this interdisciplinary technology where knowledge, methods and expertise are required from chemistry, biochemistry, microbiology, genetics, chemical engineering and computer science. Volumes are organized topically and provide a comprehensive discussion of developments in the respective field over the past 3-5 years. The series also discusses new discoveries and applications. Special volumes are dedicated to selected topics which focus on new biotechnological products and new processes for their synthesis and purification. In general, special volumes are edited by well-known guest editors. The series editor and publisher will however always be pleased to receive suggestions and supplementary information. Manuscripts are accepted in English.

[Spectral Methods for Data Science](#) CRC Press

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.

The Annotated Turing John Wiley & Sons

Programming Legend Charles Petzold unlocks the secrets of the extraordinary and prescient 1936 paper by Alan M. Turing Mathematician Alan Turing invented an imaginary computer known as the Turing Machine; in an age before computers, he explored the concept of what it meant to be computable, creating the field of computability theory in the process, a foundation of present-day computer programming. The book expands Turing's original 36-page paper with additional background chapters and extensive annotations; the author elaborates on and clarifies many of Turing's statements, making the original difficult-to-read document accessible to present day programmers, computer science majors, math geeks, and others. Interwoven into the narrative are the highlights of Turing's own life: his years at Cambridge and Princeton, his secret work in cryptanalysis during World War II, his involvement in seminal computer projects, his speculations about artificial intelligence, his arrest and prosecution for the crime of "gross indecency," and his early death by apparent suicide at the age of 41.

PC Magazine Princeton University Press

Critics of narcology—as addiction medicine is called in Russia—decry it as being "backward," hopelessly behind contemporary global medical practices in relation to addiction and substance abuse, and assume that its practitioners lack both professionalism and expertise. On the basis of his research in a range of clinical institutions managing substance abuse in St. Petersburg, Eugene Raikhel increasingly came to understand that these assumptions and critiques obscured more than they revealed. *Governing Habits* is an ethnography of extraordinary sensitivity and awareness that shows how therapeutic practice and expertise is expressed in the highly specific, yet rapidly transforming milieu of hospitals, clinics, and rehabilitation centers in post-Soviet Russia. Rather than interpreting narcology as a Soviet survival or a local clinical world on the wane in the face of globalizing evidence-based medicine, Raikhel examines the transformation of the medical management of alcoholism in Russia over the past twenty years. Raikhel's book is more than a story about the treatment of alcoholism. It is also a gripping analysis of the many cultural, institutional, political, and social transformations taking place in the post-Soviet world, particularly in Putin's Russia. *Governing Habits* will appeal to a wide range of readers, from medical anthropologists, clinicians, to scholars of post-Soviet Russia, to students of institutions and organizational change, to those interested in therapies and treatments of substance abuse, addiction, and alcoholism.

Lectures on Information Retrieval Academic 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

Patterns, Predictions, and Actions: Foundations of Machine Learning Springer Science & Business Media

The Knowledge Seeker is a useful system to develop various intelligent applications such as ontology-based search engine, ontology-based text classification system, ontological agent system, and semantic web system etc. The Knowledge Seeker contains four different ontological components. First, it defines the knowledge representation model \mathcal{V} Ontology Graph. Second, an ontology learning process that based on chi-square statistics is proposed for automatic learning an Ontology Graph from texts for different domains. Third, it defines an ontology generation method that transforms the learning outcome to the Ontology Graph format for machine processing and also can be visualized for human validation. Fourth, it defines different ontological operations (such as similarity measurement and text classification) that can be carried out with the use of generated Ontology Graphs. The final goal of the KnowledgeSeeker system framework is that it can improve the traditional information system with higher efficiency. In particular, it can increase the accuracy of a text classification system, and also enhance the search intelligence in a search engine. This can be done by enhancing the system with machine processable ontology.