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[Graphene Photonics](#) Cambridge University Press

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.

Attention and Orienting Academic Press

Mathematics for Machine Learning Cambridge University Press

Photoproteins in Bioanalysis 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.

[Mathematics of Surfaces](#) Psychology Press

Optofluidics is an emerging field that involves the use of fluids to modify optical properties and the use of optical devices to detect flowing media. Ultimately, its value is highly dependent on the successful integration of photonic integrated circuits with microfluidic or nanofluidic systems. *Handbook of Optofluidics* provides a snapshot of the

[Inside Microsoft SharePoint 2013](#) Cambridge University Press

The Committee on Technology Insight-Gauge, Evaluate & Review set up by the NRC at the request of the Defense Intelligence Agency, has selected a number of emerging technologies to investigate for their potential threats to and opportunities for national security. This first study focused on emerging applications of nanophotonics, which is about the interaction of matter and light at the scale of the wavelength of the light. Manipulation of matter at that scale allows tailoring the optical properties to permit a wide-range of commercial and defense applications. This book presents a review of the nanoscale phenomena underpinning nanophotonics, an assessment of enabling technologies for developing new applications, an examination of potential military applications, and an assessment of foreign investment capabilities

Machine Learning for Audio, Image and Video Analysis 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.

Tensor Voting 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.

Crisis Decisionmaking John Wiley & Sons

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.

John Wiley & Sons

Since 1958 the Maritime Administration has continuously conducted instructions in use of collision avoidance radar for qualified U.S. seafaring personnel and representatives of interested Federal and State Agencies. Beginning in 1963, to facilitate the expansion of training capabilities and at the same time to provide the most modern techniques in training methods, radar simulators were installed in Maritime Administration's three region schools. It soon became apparent that to properly instruct the trainees, even with the advanced equipment, a standardize up-to-date instruction manual was needed. The first manual was later revised to serve both as a classroom textbook and as an onboard reference handbook. This newly updated manual, the fourth revision, in keeping with Maritime Administration policy, has been restructured to include improved and more effective methods of plotting techniques for use in Ocean, Great Lakes, Coastwise and Inland Waters navigation. Robert J. Blackwell Assistant Secretary for Maritime Affairs

[Semi-Supervised Learning](#) Morgan & Claypool Publishers

This book covers the fundamentals in designing and deploying techniques using deep architectures. It is intended to serve as a beginner's guide to engineers or students who want to have a quick start on learning and/or building deep learning systems. This book provides a good theoretical and practical understanding and a complete toolkit of basic information and knowledge required to understand and build convolutional neural networks (CNN) from scratch. The book focuses explicitly on convolutional neural networks, filtering out other material that co-occur in many deep learning books on CNN topics.

Unshakeable Springer

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.

[Managing Innovation and Entrepreneurship](#) Springer Nature

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.

[Mining Intelligence and Knowledge Exploration](#) Cornell University Press

The two volume set LNCS 8047 and 8048 constitutes the refereed proceedings of the 15th International Conference on Computer Analysis of Images and Patterns, CAIP 2013, held in York, UK, in August 2013. The 142 papers presented were carefully reviewed and selected from 243 submissions. The scope of the conference spans the following areas: 3D TV, biometrics, color and texture, document analysis, graph-based methods, image and video indexing and database

retrieval, image and video processing, image-based modeling, kernel methods, medical imaging, mobile multimedia, model-based vision approaches, motion analysis, natural computation for digital imagery, segmentation and grouping, and shape representation and analysis.

Mathematics for Machine Learning Cambridge University Press

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.

The Annotated Turing Springer

Orienting is the gateway to attention, the first step in processing stimulus information. This volume examines these initial stages of information intake, focusing on the sensory and motivational mechanisms that determine such phenomena as stimulus selection and inhibition, habituation, pre-attentive processing, and expectancy. Psychophysiological methods are emphasized throughout. The contributors consider analyses based on cardiovascular and electrodermal changes, reflex reactions, and neural events in the cortex and subcortex. Stimulated by a conference lauding Frances Graham -- held before and during a recent meeting of the Society for Psychophysiological Research, the book presents current theory and research by an international cadre of outstanding investigators. A major researcher and theorist in the field of attention for more than three decades, Dr. Graham contributes an Afterword to the present volume which is both a consideration of the work which has gone before, and a new, original theory paper on preattentive processing and attention.

Handbook of Optofluidics Morgan & Claypool Publishers

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.

Introduction to Semi-supervised Learning Pearson Education

Introduces cutting-edge research on machine learning theory and practice, providing an accessible, modern algorithmic toolkit.

PC Magazine MIT Press

The book includes the Proceedings of the Artificial Intelligence on Fashion and Textiles conference 2018 which provides state-of-the-art techniques and applications of AI in the fashion and textile industries. It is essential reading for scientists, researchers and R&D professionals working in the field of AI with applications in the fashion and textile industry; managers in the fashion and textile enterprises; and anyone with an interest in the applications of AI. Over the last two decades, with the great advancement of computer technology, academic research in artificial intelligence (AI) and its applications in fashion and textile supply chain has been becoming a very hot topic and has received greater attention from both academics and industrialists. A number of AI-related techniques has been successfully employed and proven to handle the problems including fashion sales forecasting, supply chain optimization, planning and scheduling, textile material defect detection, fashion and textile image recognition, fashion image and style retrieval, human body

modeling and fitting, etc.

Hierarchy in International Relations CRC 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

Library and Information Sciences MIT Press

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.