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Statistical Machine Translation
John Wiley & Sons
Dr. Greg Zacharias, former Chief Scientist of the United States Air Force (2015-18), explores next steps in autonomous systems (AS)

July, 27 2024

development, fielding, and training. Rapid advances in AS development and artificial intelligence (AI) research will change how we think about machines, whether they are individual vehicle platforms or networked enterprises. The payoff will be considerable, affording the US military significant protection for aviators, greater effectiveness in employment, and unlimited opportunities for novel and disruptive concepts of operations. Autonomous Horizons: The Way Forward identifies issues and makes recommendations for the Air Force to take full advantage of this transformational technology. Common Mistakes in Meta-Analysis transcript Verlag

This readable, accessible book offers prospective teachers a comprehensive introduction to teaching social studies to middle and secondary school students. With the purpose of social studies being the development of reflective, competent, concerned citizens, the book first examines the origins and evolution of social studies and citizenship education across the United States. Following this, targeted chapters address the art, science, and craft of social

studies teaching as a means for engaging learners in knowledge construction. In the final section, the authors look at ways to improve social studies instruction through the incorporation of emerging technology into the social studies curriculum. For middle and secondary school social studies teachers.

Science Examination Papers
Cambridge University Press
The book contains blackline masters of stimulating activities in mathematics._

Graphical Models, Exponential Families, and

Variational Inference
Springer
This accessible textbook gives beginning undergraduate mathematics students a first exposure to introductory logic, proofs, sets, functions, number theory, relations, finite and infinite sets, and the foundations of analysis. The book provides students with a quick path to writing proofs and a practical collection of tools that they can use in later mathematics courses such as abstract algebra and analysis. The importance of the logical structure of a mathematical statement as a framework for finding a proof of that statement, and the proper use of variables, is an early and consistent theme used throughout the book.

Multimodal Literacy SIU Press
In One Economics, Many Recipes, leading economist Dani Rodrik argues that neither globalizers nor antiglobalizers have got it right. While economic globalization can be a boon for countries that are trying to dig out of poverty, success usually requires following policies that are tailored to local economic and political realities rather than obeying the dictates of the international globalization establishment. A definitive statement of Rodrik's original and influential perspective on economic growth and globalization, One Economics, Many Recipes shows how successful countries craft their own

unique strategies--and what other countries can learn from them. To most proglobalizers, globalization is a source of economic salvation for developing nations, and to fully benefit from it nations must follow a universal set of rules designed by organizations such as the World Bank, the International Monetary Fund, and the World Trade Organization and enforced by international investors and capital markets. But to most antiglobalizers, such global rules spell nothing but trouble, and the more poor nations shield themselves from them, the better off they are. Rodrik rejects the simplifications of both sides, showing that poor countries get rich not by copying what Washington technocrats preach or what others have done, but by overcoming their own highly specific constraints. And, far from conflicting with economic science, this is exactly what good economics teaches.

Combinatorial Stochastic Processes

John Benjamins Publishing
An up-to-date account of the interplay between optimization and machine learning, accessible to students and researchers in both communities. The interplay between optimization and machine learning is one of the most important developments in modern computational science. Optimization formulations and methods are proving to be vital in designing algorithms to extract essential knowledge from huge volumes of data. Machine learning, however, is not

simply a consumer of optimization technology but a rapidly evolving field that is itself generating new optimization ideas. This book captures the state of the art of the interaction between optimization and machine learning in a way that is accessible to researchers in both fields. Optimization approaches have enjoyed prominence in machine learning because of their wide applicability and attractive theoretical properties. The increasing complexity, size, and variety of today's machine learning models call for the reassessment of existing assumptions. This book starts the process of reassessment. It describes the resurgence in novel contexts of established frameworks such as first-order methods, stochastic approximations, convex relaxations, interior-point methods, and proximal methods. It also devotes attention to newer themes such as regularized optimization, robust optimization, gradient and subgradient methods, splitting techniques, and second-order methods. Many of these techniques draw inspiration from other fields, including operations research, theoretical computer science, and subfields of optimization. The book will enrich the ongoing cross-fertilization between the machine learning community and these other fields, and within the broader optimization community. **Algorithms for**

Reinforcement Learning
New Literacies and Digital Epistemologies
This volume is based on contributions from the First International Conference on "Recent Advances in Natural Language Processing" (RANLP'95) held in Tzigov Chark, Bulgaria, 14-16 September 1995. This conference was one of the most important and competitively reviewed conferences in Natural Language Processing (NLP) for 1995 with submissions from more than 30 countries. Of the 48 papers presented at RANLP'95, the best (revised) papers have been selected for this book, in the hope that they reflect the most significant and promising trends (and latest successful results) in NLP. The book is organised thematically and the contributions are grouped according to the traditional topics found in NLP: morphology, syntax, grammars, parsing, semantics, discourse, grammars, generation, machine translation, corpus processing and multimedia. To help the reader find his/her way, the authors have prepared an extensive index which contains major terms used in NLP; an index of authors which lists the names of the authors and the page numbers of their paper(s); a list of figures; and a list of tables. This book will be of interest to researchers, lecturers and graduate students interested in Natural

Language Processing and more specifically to those who work in Computational Linguistics, Corpus Linguistics and Machine Translation.
Representation Learning for Natural Language Processing Granada Learning Semantic change — how the meanings of words change over time — has preoccupied scholars since well before modern linguistics emerged in the late 19th and early 20th century, ushering in a new methodological turn in the study of language change. Compared to changes in sound and grammar, semantic change is the least understood. Ever since, the study of semantic change has progressed steadily, accumulating a vast store of knowledge for over a century, encompassing many languages and language families. Historical linguists also early on realized the potential of computers as research tools, with papers at the very first international conferences in computational linguistics in the 1960s. Such computational studies still tended to be small-scale, method-oriented, and qualitative. However, recent years have witnessed a sea-change in this regard. Big-data empirical quantitative investigations are now coming to the forefront, enabled by enormous advances in storage capability and processing power. Diachronic corpora

have grown beyond imagination, defying exploration by traditional manual qualitative methods, and language technology has become increasingly data-driven and semantics-oriented. These developments present a golden opportunity for the empirical study of semantic change over both long and short time spans. A major challenge presently is to integrate the hard-earned knowledge and expertise of traditional historical linguistics with cutting-edge methodology explored primarily in computational linguistics. The idea for the present volume came out of a concrete response to this challenge. The 1st International Workshop on Computational Approaches to Historical Language Change (LChange'19), at ACL 2019, brought together scholars from both fields. This volume offers a survey of this exciting new direction in the study of semantic change, a discussion of the many remaining challenges that we face in pursuing it, and considerably updated and extended versions of a selection of the contributions to the LChange'19 workshop, addressing both more theoretical problems — e.g., discovery of "laws of semantic change" — and practical applications, such as information retrieval in longitudinal text archives.

An Introduction to Causal Inference Cambridge University Press
This paper summarizes recent advances in causal inference and underscores the paradigmatic shifts that must be undertaken in moving from traditional statistical analysis to causal analysis of multivariate data. Special emphasis is placed on the assumptions that underly all causal inferences, the languages used in formulating those assumptions, the conditional nature of all causal and counterfactual claims, and the methods that have been developed for the assessment of such claims. These advances are illustrated using a general theory of causation based on the Structural Causal Model (SCM) described in Pearl (2000a), which subsumes and unifies other approaches to causation, and provides a coherent mathematical foundation for the analysis of causes and counterfactuals. In particular, the paper surveys the development of mathematical tools for inferring (from a combination of data and assumptions) answers to three types of causal queries: (1) queries about the effects of potential interventions, (also called "causal effects" or "policy evaluation") (2) queries about probabilities of counterfactuals, (including assessment of "regret," "attribution" or "causes of effects") and (3) queries

about direct and indirect effects (also known as "mediation"). Finally, the paper defines the formal and conceptual relationships between the structural and potential-outcome frameworks and presents tools for a symbiotic analysis that uses the strong features of both. The tools are demonstrated in the analyses of mediation, causes of effects, and probabilities of causation. -- p. 1.

Learning Deep Architectures for AI Springer Science & Business Media

Demand for tech professionals is expected to increase substantially over the next decade, and increasing the number of women of color in tech will be critical to building and maintaining a competitive workforce. Despite years of efforts to increase the diversity of the tech workforce, women of color have remained underrepresented, and the numbers of some groups of women of color have even declined. Even in cases where some groups of women of color may have higher levels of representation, data show that they still face significant systemic challenges in advancing to positions of leadership. Research evidence suggests that structural and social barriers in tech education, the tech workforce, and in venture capital investment disproportionately and negatively affect women of color. Transforming Trajectories for Women of Color in Tech uses current research as well as information obtained through four public information-gathering workshops to provide recommendations to a broad set of stakeholders within the tech ecosystem for increasing recruitment, retention, and advancement of women of

color. This report identifies gaps in existing research that obscure the nature of challenges faced by women of color in tech, addresses systemic issues that negatively affect outcomes for women of color in tech, and provides guidance for transforming existing systems and implementing evidence-based policies and practices to increase the success of women of color in tech.

Authorship Attribution

Language Science Press Theoretical results suggest that in order to learn the kind of complicated functions that can represent high-level abstractions (e.g. in vision, language, and other AI-level tasks), one may need deep architectures. Deep architectures are composed of multiple levels of non-linear operations, such as in neural nets with many hidden layers or in complicated propositional formulae re-using many sub-formulae. Searching the parameter space of deep architectures is a difficult task, but learning algorithms such as those for Deep Belief Networks have recently been proposed to tackle this problem with notable success, beating the state-of-the-art in certain areas. This paper discusses the motivations and principles regarding learning algorithms for deep architectures, in particular those exploiting as building blocks unsupervised learning of single-layer models such as Restricted Boltzmann Machines, used to construct deeper models

such as Deep Belief Networks.

Bionanocomposites R.I.C. Publications

A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

Recent Advances in Natural Language Processing Createspace Independent Publishing Platform

Leo Biga has reported on the career of filmmaker Alexander Payne for 20 years. In this updated collection of essays, the author-journalist-blogger offers the only comprehensive look at Payne's career and creative process. Based in Payne's hometown of Omaha, Nebraska, Biga has been granted access to location shooting for Nebraska and Sideways, the latter filmed in California's wine country. Biga has also been given many exclusive interviews by Payne and his creative collaborators. His insightful analysis of Payne's films and personal journey has been praised by Payne for its "honesty, thoughtfulness, and accuracy." The two-time Oscar-winner calls Biga's articles, "the most complete and perceptive of any journalist's anywhere." Payne's films are celebrated for their blend of humor and honest look at human relationships. Members of Hollywood's A-List, including George Clooney (The Descendants), Jack Nicholson (About Schmidt), Reese Witherspoon (Election), Paul Giamatti (Sideways), Laura Dern (Citizen Ruth), and Bruce

Dern (Nebraska), have starred in his films.

Alexander Payne World Scientific

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. Transforming Trajectories for Women of Color in Tech Harper Collins The dream of automatic language translation is now closer thanks to

recent advances in the techniques that underpin statistical machine translation. This class-tested textbook from an active researcher in the field, provides a clear and careful introduction to the latest methods and explains how to build machine translation systems for any two languages. It introduces the subject's building blocks from linguistics and probability, then covers the major models for machine translation: word-based, phrase-based, and tree-based, as well as machine translation evaluation, language modeling, discriminative training and advanced methods to integrate linguistic annotation. The book also reports the latest research, presents the major outstanding challenges, and enables novices as well as experienced researchers to make novel contributions to this exciting area. Ideal for students at undergraduate and graduate level, or for anyone interested in the latest developments in machine translation.

Decision Making Under Uncertainty MIT Press Over the last few decades, important progresses in the methods of sampling have been achieved. This book draws up an inventory of new methods that can be useful for selecting samples. Forty-six sampling methods are described in the framework of general theory. The algorithms are described rigorously, which allows implementing directly the described methods. This book is aimed

at experienced statisticians who are familiar with the theory of survey sampling.

Inside the black box Springer Nature The purpose of this text is to bring graduate students specializing in probability theory to current research topics at the interface of combinatorics and stochastic processes. There is particular focus on the theory of random combinatorial structures such as partitions, permutations, trees, forests, and mappings, and connections between the asymptotic theory of enumeration of such structures and the theory of stochastic processes like Brownian motion and Poisson processes.

Introduction to Applied Linear Algebra Now Publishers Inc After a long time of neglect, Artificial Intelligence is once again at the center of most of our political, economic, and socio-cultural debates. Recent advances in the field of Artifical Neural Networks have led to a renaissance of dystopian and utopian speculations on an AI-rendered future. Algorithmic technologies are deployed for identifying potential terrorists through vast surveillance networks, for producing sentencing guidelines and recidivism risk profiles in criminal justice systems, for demographic and psychographic targeting of bodies for advertising or propaganda, and more generally for automating the analysis of language, text, and images. Against this background, the aim of this book is to discuss the heterogenous conditions, implications, and effects of modern AI and Internet technologies in terms of their political dimension: What does

it mean to critically investigate efforts of net politics in the age of machine learning algorithms?

Empirical Asset Pricing

MIT Press

Former Head of the Singapore Civil Service Mr Lim Siong Guan now shares his diverse experiences and fresh insights on leadership in his exclusive new book, The Leader, The Teacher & You. As a former Permanent Secretary in ministries, including the Ministry of Defence, the Prime Minister's Office and the Ministry of Finance, and former chairman of the Inland Revenue Authority of Singapore and the Singapore Economic Development Board, the indefatigable public servant has contributed greatly to Singapore's success, introducing innovative policies and practices at each turn, which have greatly enhanced drive and performance across the board. Most notably, he is known for his pursuit of excellence, especially in spearheading the Public Service for the 21st Century (PS21) movement, to develop organizational excellence. From Singapore's early years of government to its emergence as a prosperous metropolis, Lim has served the nation tirelessly through the years.In The Leader, The Teacher & You, Lim puts forth a fresh take on the notion of leadership as other-centered, with the focus on enabling others

to be the best they can be. This noble vision of leadership is elaborated and built upon through the sharing of his experiences, in particular the memorable lessons and deep-seated convictions he has had while serving under Mr Lee Kuan Yew, Singapore's first Prime Minister, and Dr Goh Keng Swee, Singapore's First Deputy Prime Minister. Different types of leadership, such as personal and position leadership are touched upon as the author encourages leaders to take an active role in empowering those they lead and spurring them on to excellence. Coming from a man who has helmed many distinguished organizations, Mr Lim's insights on core values essential for organizational excellence are also not to be missed. The book offers practical and down-to-earth advice for leaders in all walks of life. For leaders who genuinely care for the people they lead and hope to make a difference in their lives, this book will be a crucial guide.

The Leader, The Teacher & You: Leadership Through The Third Generation Machine Learning Mastery More than one hundred of the world's leading thinkers write about things they believe in, despite the absence of concrete proof Scientific theory, more often than not, is born of bold assumption,

disparate bits of unconnected evidence, and educated leaps of faith. Some of the most potent beliefs among brilliant minds are based on supposition alone -- yet that is enough to push those minds toward making the theory viable. Eminent cultural impresario, editor, and publisher of Edge (www.edge.org), John Brockman asked a group of leading scientists and thinkers to answer the question: What do you believe to be true even though you cannot prove it? This book brings together the very best answers from the most distinguished contributors. Thought-provoking and hugely compelling, this collection of bite-size thought-experiments is a fascinating insight into the instinctive beliefs of some of the most brilliant minds today.