

# Jon Kleinberg And Eva Tardos Algorithm Design

Algorithm Design-Jon Kleinberg 2014

Algorithm Design: Pearson New International Edition-Jon Kleinberg 2013-08-29 August 6, 2009 Author, Jon Kleinberg, was recently cited in the New York Times for his statistical analysis research in the Internet age. Algorithm Design introduces algorithms by looking at the real-world problems that motivate them. The book teaches students a range of design and analysis techniques for problems that arise in computing applications. The text encourages an understanding of the algorithm design process and an appreciation of the role of algorithms in the broader field of computer science.

Algorithm Design-Jon Kleinberg 2011

'Algorithm Design' teaches students a range of design and analysis techniques for problems that arise in computing applications. The text encourages an understanding of the algorithm design process and an appreciation of the role of algorithms in the broader field of computer science.

Algorithm Design-Michael Mitzenmacher 2007

A Course in Networks and Markets-Rafael Pass 2019-04-16 A graduate-level, mathematically rigorous introduction to strategic behavior in a networked world. This introductory graduate-level text uses tools from game theory and graph theory to examine the role of network structures and network effects in economic and information markets. The goal is for students to develop an intuitive and mathematically rigorous understanding of how strategic agents interact in a connected world. The text

synthesizes some of the central results in the field while also simplifying their treatment to make them more accessible to nonexperts. Thus, students at the introductory level will gain an understanding of key ideas in the field that are usually only taught at the advanced graduate level. The book introduces basic concepts from game theory and graph theory as well as some fundamental algorithms for exploring graphs. These tools are then applied to analyze strategic interactions over social networks, to explore different types of markets and mechanisms for networks, and to study the role of beliefs and higher-level beliefs (beliefs about beliefs). Specific topics discussed include coordination and contagion on social networks, traffic networks, matchings and matching markets, exchange networks, auctions, voting, web search, models of belief and knowledge, and how beliefs affect auctions and markets. An appendix offers a “Primer on Probability.” Mathematically rigorous, the text assumes a level of mathematical maturity (comfort with definitions and proofs) in the reader.

Heuristics in Analytics-Carlos Andre Reis Pinheiro 2014-03-03

Employ heuristic adjustments for truly accurate analysis

Heuristics in Analytics presents an approach to analysis that accounts for the randomness of business and the competitive marketplace, creating a model that more accurately reflects the scenario at hand. With an emphasis on the importance of proper analytical tools, the book describes the analytical process from exploratory analysis through model developments, to deployments and possible outcomes. Beginning with an introduction to heuristic concepts, readers will find heuristics applied to statistics and probability, mathematics, stochastic, and artificial intelligence models, ending with the knowledge applications that solve business problems. Case studies illustrate the everyday application and implication of the techniques presented, while the heuristic approach is integrated into analytical modeling, graph analysis, text analytics, and more. Robust analytics has become

crucial in the corporate environment, and randomness plays an enormous role in business and the competitive marketplace. Failing to account for randomness can steer a model in an entirely wrong direction, negatively affecting the final outcome and potentially devastating the bottom line. Heuristics in Analytics describes how the heuristic characteristics of analysis can be overcome with problem design, math and statistics, helping readers to: Realize just how random the world is, and how unplanned events can affect analysis Integrate heuristic and analytical approaches to modeling and problem solving Discover how graph analysis is applied in real-world scenarios around the globe Apply analytical knowledge to customer behavior, insolvency prevention, fraud detection, and more Understand how text analytics can be applied to increase the business knowledge Every single factor, no matter how large or how small, must be taken into account when modeling a scenario or event—even the unknowns. The presence or absence of even a single detail can dramatically alter eventual outcomes. From raw data to final report, Heuristics in Analytics contains the information analysts need to improve accuracy, and ultimately, predictive, and descriptive power.

Jon Kleinberg 2006, Panos Louridas 2017-03-17

Real-World Algorithms-Panos Louridas 2017-03-17 An introduction to algorithms for readers with no background in advanced mathematics or computer science, emphasizing examples and real-world problems. Algorithms are what we do in order not to have to do something. Algorithms consist of instructions to carry out tasks—usually dull, repetitive ones. Starting from simple building blocks, computer algorithms enable machines to recognize and produce speech, translate texts, categorize and summarize documents, describe images, and predict the weather. A task that would take hours can be completed in virtually no time by using a few lines of code in a

modern scripting program. This book offers an introduction to algorithms through the real-world problems they solve. The algorithms are presented in pseudocode and can readily be implemented in a computer language. The book presents algorithms simply and accessibly, without overwhelming readers or insulting their intelligence. Readers should be comfortable with mathematical fundamentals and have a basic understanding of how computers work; all other necessary concepts are explained in the text. After presenting background in pseudocode conventions, basic terminology, and data structures, chapters cover compression, cryptography, graphs, searching and sorting, hashing, classification, strings, and chance. Each chapter describes real problems and then presents algorithms to solve them. Examples illustrate the wide range of applications, including shortest paths as a solution to paragraph line breaks, strongest paths in elections systems, hashes for song recognition, voting power Monte Carlo methods, and entropy for machine learning. Real-World Algorithms can be used by students in disciplines from economics to applied sciences. Computer science majors can read it before using a more technical text.

Socio-Technical Networks-Fei Hu 2010-11-17 While there are sporadic journal articles on socio-technical networks, there's long been a need for an integrated resource that addresses concrete socio-technical network (STN) design issues from algorithmic and engineering perspectives. Filling this need, Socio-Technical Networks: Science and Engineering Design provides a complete introduction to the fundamentals of one of the hottest research areas across the social sciences, networking, and computer science—including its definition, historical background, and models. Covering basic STN architecture from a physical/technological perspective, the book considers the system design process in a typical STN, including inputs, processes/actions, and outputs/products. It covers current applications, including transportation networks, energy systems,

tele-healthcare, financial networks, and the World Wide Web. A group of STN expert contributors addresses privacy and security topics in the interdependent context of critical infrastructure, which include risk models, trust models, and privacy preserving schemes. Covers the physical and technological designs in a typical STN Considers STN applications in popular fields, such as healthcare and the virtual community Details a method for mapping and measuring complexity, uncertainty, and interactions among STN components The book examines the most important STN models, including graph theory, inferring agent dynamics, decision theory, and information mining. It also explains structural studies, behavioral studies, and agent/actor system studies and policy studies in different STN contexts. Complete with in-depth case studies, this book supplies the practical insight needed to address contemporary STN design issues.

STACS 2004-Volker Diekert 2004-03-13 The Symposium on Theoretical Aspects of Computer Science (STACS) is alternately held in France and in Germany. The conference of March 25-27, 2004 at the Corum, Montpellier was the twenty-first in this series. Previous meetings took place in Paris (1984), Saarbrücken (1985), Orsay (1986), Passau (1987), Bordeaux (1988), Paderborn (1989), Rouen (1990), Hamburg (1991), Cachan (1992), Würzburg (1993), Caen (1994), München (1995), Grenoble (1996), Lubbeck (1997), Paris (1998), Trier (1999), Lille (2000), Dresden (2001), Antibes (2002), and Berlin (2003). The symposium looks back at a remarkable tradition of over 20 years. The interest in STACS has been increasing continuously during recent years and has turned it into one of the most significant conferences in theoretical computer science. The STACS 2004 call for papers led to more than 200 submissions from all over the world.

The reviewing process was extremely hard: more than 800 reviews were done. We would like to thank the program committee and all external referees for the valuable work they put into the reviewing process of this conference. We had a two-day meeting



and exercises for use as course reading are included.

Social Network Data Analytics-Charu C. Aggarwal 2011-03-18

Social network analysis applications have experienced tremendous advances within the last few years due in part to increasing trends towards users interacting with each other on the internet. Social networks are organized as graphs, and the data on social networks takes on the form of massive streams, which are mined for a variety of purposes. Social Network Data Analytics covers an important niche in the social network analytics field. This edited volume, contributed by prominent researchers in this field, presents a wide selection of topics on social network data mining such as Structural Properties of Social Networks, Algorithms for Structural Discovery of Social Networks and Content Analysis in Social Networks. This book is also unique in focussing on the data analytical aspects of social networks in the internet scenario, rather than the traditional sociology-driven emphasis prevalent in the existing books, which do not focus on the unique data-intensive characteristics of online social networks. Emphasis is placed on simplifying the content so that students and practitioners benefit from this book. This book targets advanced level students and researchers concentrating on computer science as a secondary text or reference book. Data mining, database, information security, electronic commerce and machine learning professionals will find this book a valuable asset, as well as primary associations such as ACM, IEEE and Management Science.

Artificial Intelligence Research and Development-L. Museros

2014-10-10 This book presents 34 original papers accepted for presentation at the 17th International Conference of the Catalan Association for Artificial Intelligence (CCIA 2014), held in October 2014 in Barcelona, Spain. The Catalan Association for Artificial Intelligence (ACIA), was created in 1994 as a non-profit association to promote cooperation among researchers from the Catalan-speaking artificial intelligence research community.

Conferences are now held annually throughout the Catalan-speaking countries. The papers in this volume have been organized around different topics, providing a representative sample of the current state-of-the-art in the Catalan artificial intelligence community and of the collaboration between ACIA members and the worldwide AI community. The book will be of interest to all those working in the field of artificial intelligence.

Randomization and Computation in Strategic Settings- 2011 This thesis considers the following question: In large-scale systems involving many self-interested participants, how can we effectively allocate scarce resources among competing interests despite strategic behavior by the participants, as well as the limited computational power of the system? Work at the interface between computer science and economics has revealed a fundamental tension between the economic objective, that of achieving the goals of the system designer despite strategic behavior, and the computational objective, that of implementing aspects of the system efficiently. In particular, this tension has been most apparent in systems that allocate resources deterministically. The realization that careful use of randomization can reconcile economic and computational goals is the starting point for this thesis. Our contributions are twofold: (1) We design randomized mechanisms for several fundamental problems of resource allocation; our mechanisms perform well even in the presence of strategic behavior, and can be implemented efficiently. (2) En route to our results, we develop new and flexible techniques for exploiting the power of randomization in the design of computationally-efficient mechanisms for resource allocation in strategic settings.

Beyond Collapse-Ronald K. Faulstich 2015-11-23 New approaches to collapsed complex societies. The Maya. The Romans. The great dynasties of ancient China. It is generally believed that these once mighty empires eventually crumbled and disappeared. A recent trend in archaeology, however, focusing on what happened

during and after the decline of once powerful regimes has found social resilience and transformation instead of collapse. In *Beyond Collapse: Archaeological Perspectives on Resilience, Revitalization, and Transformation in Complex Societies*, editor Ronald K. Fausseit gathers scholars with diverse theoretical perspectives to interpret how ancient civilizations responded to various stresses, including environmental change, warfare, and the fragmentation of political institutions. Contributors discuss not only what makes societies collapse but also why some societies are resilient and others are not, as well as how societies reorganize after collapse. Putting in context issues we face today, such as climate change, social diversity, and the failure of modern states, *Beyond Collapse* is an essential volume for readers interested in human-environment interaction and in the collapse--and subsequent reorganization--of human societies.

Proceedings of the Fourth SIAM International Conference on Data Mining-Michael W. Berry 2004-01-01 The Fourth SIAM International Conference on Data Mining continues the tradition of providing an open forum for the presentation and discussion of innovative algorithms as well as novel applications of data mining. This is reflected in the talks by the four keynote speakers who discuss data usability issues in systems for data mining in science and engineering, issues raised by new technologies that generate biological data, ways to find complex structured patterns in linked data, and advances in Bayesian inference techniques. This proceedings includes 61 research papers.

The Nature of Computation-Cristopher Moore 2011-08-12 Computational complexity is one of the most beautiful fields of modern mathematics, and it is increasingly relevant to other sciences ranging from physics to biology. But this beauty is often buried underneath layers of unnecessary formalism, and exciting recent results like interactive proofs, phase transitions, and quantum computing are usually considered too advanced for the typical student. This book bridges these gaps by explaining the

deep ideas of theoretical computer science in a clear and enjoyable fashion, making them accessible to non-computer scientists and to computer scientists who finally want to appreciate their field from a new point of view. The authors start with a lucid and playful explanation of the P vs. NP problem, explaining why it is so fundamental, and so hard to resolve. They then lead the reader through the complexity of mazes and games; optimization in theory and practice; randomized algorithms, interactive proofs, and pseudorandomness; Markov chains and phase transitions; and the outer reaches of quantum computing. At every turn, they use a minimum of formalism, providing explanations that are both deep and accessible. The book is intended for graduate and undergraduate students, scientists from other areas who have long wanted to understand this subject, and experts who want to fall in love with this field all over again.

Foundations of Applied Mathematics, Volume 2-Jeffrey Humpherys 2020-03-10 In this second book of what will be a four-volume series, the authors present, in a mathematically rigorous way, the essential foundations of both the theory and practice of algorithms, approximation, and optimization—essential topics in modern applied and computational mathematics. This material is the introductory framework upon which algorithm analysis, optimization, probability, statistics, machine learning, and control theory are built. This text gives a unified treatment of several topics that do not usually appear together: the theory and analysis of algorithms for mathematicians and data science students; probability and its applications; the theory and applications of approximation, including Fourier series, wavelets, and polynomial approximation; and the theory and practice of optimization, including dynamic optimization. When used in concert with the free supplemental lab materials, Foundations of Applied Mathematics, Volume 2: Algorithms, Approximation, Optimization teaches not only the theory but also the

computational practice of modern mathematical methods. Exercises and examples build upon each other in a way that continually reinforces previous ideas, allowing students to retain learned concepts while achieving a greater depth. The mathematically rigorous lab content guides students to technical proficiency and answers the age-old question "When am I going to use this?" This textbook is geared toward advanced undergraduate and beginning graduate students in mathematics, data science, and machine learning.

Understanding Commanders' Information Needs for Influence Operations-Eric V. Larson 2009-11-11 Documents a study whose goals were to develop an understanding of commanders' information requirements for cultural and other "soft" factors in order to improve the effectiveness of combined arms operations, and to develop practical ways for commanders to integrate information and influence operations activities into combined arms planning/assessment in order to increase the usefulness to ground commanders of such operations.

Discrete Mathematics-Jean Gallier 2011-02-01 This book gives an introduction to discrete mathematics for beginning undergraduates. One of original features of this book is that it begins with a presentation of the rules of logic as used in mathematics. Many examples of formal and informal proofs are given. With this logical framework firmly in place, the book describes the major axioms of set theory and introduces the natural numbers. The rest of the book is more standard. It deals with functions and relations, directed and undirected graphs, and an introduction to combinatorics. There is a section on public key cryptography and RSA, with complete proofs of Fermat's little theorem and the correctness of the RSA scheme, as well as explicit algorithms to perform modular arithmetic. The last chapter provides more graph theory. Eulerian and Hamiltonian cycles are discussed. Then, we study flows and tensions and state and prove the max flow min-cut theorem. We also discuss

matchings, covering, bipartite graphs.

Design and Analysis of Algorithms-Sandeep Sen 2019-04-30

Focuses on the interplay between algorithm design and the underlying computational models.

Essays on Signaling and Social Networks- 2011 Over the last few decades some analytic tools intensely used by economics have produced useful insights in topics formerly in the exclusive reach of other social sciences. In particular game theory, justifiable from either a multi-person decision theoretic perspective or from an evolutionary one, often serves as a generous yet sufficiently tight framework for interdisciplinary dialogue. The three essays in this collection apply game theory to answer questions with some aspects of economic interest. The three of them have in common that they are related to topics to which other social sciences, specially sociology, have made significant contributions. While working within economics I have attempted to use constructively and faithfully some of these ideas. Chapter 1, coauthored with Xu Tan, studies situations in which a set of agents take actions in order to convey private information to an observing third party which then assigns a set of prizes based on its beliefs about the ranking of the agents in terms of the unobservable characteristic. These situations were first studied using game theoretic frameworks by Spence and Akerlof in the early seventies, but some of the key insights date back to the foundational work of Veblen. In our analysis we focus on the competitive aspect of some of these situations and cast signals as random variables whose distributions are determined by the underlying unobservable characteristics. Under this formulation different signals have inherent meanings, preceding any stable conventions that may be established. We use these prior meanings to propose an equilibrium selection criterion, which significantly refines the very large set of sequential equilibria in this class of games. In Chapter 2, coauthored with Matthew O. Jackson and Xu Tan, we study the structure of social networks

that allow individuals to cooperate with one another in settings in which behavior is non-contractible, by supporting schemes of credible ostracism of deviators. There is a significant literature on the subject of cooperation in social networks focusing on the role of the network in transmitting the information necessary for the timely punishment of deviators, and deriving properties of network structures able to sustain cooperation from that perspective. Ours is one of the first efforts to understand the network restrictions that emerge purely from the credibility of ostracism, carefully considering the implications that the dissolution of any given relationship may have over the sustainability of other relations in the community. In Chapter 3 I study the sets of Pure Strategy Nash equilibria of a variety of binary games of social influence under complete information. In a game of social influence agents simultaneously choose one of two possible strategies (to be inactive or be active), and the optimal choice depends on the strategies of the agents in their social environment. Different social environments and assumptions on the way in which they influence the behavior of the agents lead to different classes of games of varying degrees of tractability. In any such game an equilibrium can be described by the set of agents that are active, and the full set of equilibria can be thus represented as a collection of subsets of the set of agents. I build the analysis of each of the classes of games that I consider around the question: What collections of sets are expressible as the set of equilibria of some game in the class? I am able to provide precise answers to these questions in some of the classes studied, and in other cases just some pointers.

Advances in Edge Computing: Massive Parallel Processing and Applications-F. Khafa 2020-03-10 The rapid advance of Internet of Things (IoT) technologies has resulted in the number of IoT-connected devices growing exponentially, with billions of connected devices worldwide. While this development brings with it great opportunities for many fields of science, engineering,

business and everyday life, it also presents challenges such as an architectural bottleneck - with a very large number of IoT devices connected to a rather small number of servers in Cloud data centers - and the problem of data deluge. Edge computing aims to alleviate the computational burden of the IoT for the Cloud by pushing some of the computations and logics of processing from the Cloud to the Edge of the Internet. It is becoming commonplace to allocate tasks and applications such as data filtering, classification, semantic enrichment and data aggregation to this layer, but to prevent this new layer from itself becoming another bottleneck for the whole computing stack from IoT to the Cloud, the Edge computing layer needs to be capable of implementing massively parallel and distributed algorithms efficiently. This book, *Advances in Edge Computing: Massive Parallel Processing and Applications*, addresses these challenges in 11 chapters. Subjects covered include: Fog storage software architecture; IoT-based crowdsourcing; the industrial Internet of Things; privacy issues; smart home management in the Cloud and the Fog; and a cloud robotic solution to assist medical applications. Providing an overview of developments in the field, the book will be of interest to all those working with the Internet of Things and Edge computing.

Go (Golang)-Alan A. Donovan, Brian W. Kernighan  
2016-08-31  
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Advances in Experimental Political Science-James Druckman 2021-04 Novel collection of essays addressing contemporary trends in political science, covering a broad array of methodological and substantive topics.

Practical Social Network Analysis with Python-Krishna Raj P.M. 2018-08-25 This book focuses on social network analysis from a computational perspective, introducing readers to the fundamental aspects of network theory by discussing the various metrics used to measure the social network. It covers different forms of graphs and their analysis using techniques like filtering, clustering and rule mining, as well as important theories like small world phenomenon. It also presents methods for identifying influential nodes in the network and information dissemination models. Further, it uses examples to explain the tools for visualising large-scale networks, and explores emerging topics like big data and deep learning in the context of social network analysis. With the Internet becoming part of our everyday lives, social networking tools are used as the primary means of communication. And as the volume and speed of such data is increasing rapidly, there is a need to apply computational techniques to interpret and understand it. Moreover, relationships in molecular structures, co-authors in scientific journals, and developers in a software community can also be understood better by visualising them as networks. This book brings together the theory and practice of social network analysis and includes mathematical concepts, computational techniques and examples from the real world to offer readers an overview of this domain.

The Power of Algorithms-Giorgio Ausiello 2013-11-08 To examine, analyze, and manipulate a problem to the point of designing an algorithm for solving it is an exercise of fundamental value in many fields. With so many everyday activities governed by

algorithmic principles, the power, precision, reliability and speed of execution demanded by users have transformed the design and construction of algorithms from a creative, artisanal activity into a full-fledged science in its own right. This book is aimed at all those who exploit the results of this new science, as designers and as consumers. The first chapter is an overview of the related history, demonstrating the long development of ideas such as recursion and more recent formalizations such as computability. The second chapter shows how the design of algorithms requires appropriate techniques and sophisticated organization of data. In the subsequent chapters the contributing authors present examples from diverse areas - such as routing and networking problems, Web search, information security, auctions and games, complexity and randomness, and the life sciences - that show how algorithmic thinking offers practical solutions and also deepens domain knowledge. The contributing authors are top-class researchers with considerable academic and industrial experience; they are also excellent educators and communicators and they draw on this experience with enthusiasm and humor. This book is an excellent introduction to an intriguing domain and it will be enjoyed by undergraduate and postgraduate students in computer science, engineering, and mathematics, and more broadly by all those engaged with algorithmic thinking.

Diffusion in Social Networks-Paulo Shakarian 2015-09-16 This book presents the leading models of social network diffusion that are used to demonstrate the spread of disease, ideas, and behavior. It introduces diffusion models from the fields of computer science (independent cascade and linear threshold), sociology (tipping models), physics (voter models), biology (evolutionary models), and epidemiology (SIR/SIS and related models). A variety of properties and problems related to these models are discussed including identifying seeds sets to initiate diffusion, game theoretic problems, predicting diffusion events, and more. The book explores numerous connections between

social network diffusion research and artificial intelligence through topics such as agent-based modeling, logic programming, game theory, learning, and data mining. The book also surveys key empirical results in social network diffusion, and reviews the classic and cutting-edge research with a focus on open problems.

**Algorithmic Thinking**-Daniel Zingaro 2020-12-15 A hands-on, problem-based introduction to building algorithms and data structures to solve problems with a computer. **Algorithmic Thinking** will teach you how to solve challenging programming problems and design your own algorithms. Daniel Zingaro, a master teacher, draws his examples from world-class programming competitions like USACO and IOI. You'll learn how to classify problems, choose data structures, and identify appropriate algorithms. You'll also learn how your choice of data structure, whether a hash table, heap, or tree, can affect runtime and speed up your algorithms; and how to adopt powerful strategies like recursion, dynamic programming, and binary search to solve challenging problems. Line-by-line breakdowns of the code will teach you how to use algorithms and data structures like:

- The breadth-first search algorithm to find the optimal way to play a board game or find the best way to translate a book
- Dijkstra's algorithm to determine how many mice can exit a maze or the number of fastest routes between two locations
- The union-find data structure to answer questions about connections in a social network or determine who are friends or enemies
- The heap data structure to determine the amount of money given away in a promotion
- The hash-table data structure to determine whether snowflakes are unique or identify compound words in a dictionary

NOTE: Each problem in this book is available on a programming-judge website. You'll find the site's URL and problem ID in the description. What's better than a free correctness check?

**Optimization and Decision Science: Methodologies and Applications**-Antonio Sforza 2017-11-03 This proceedings volume

highlights the state-of-the-art knowledge related to optimization, decisions science and problem solving methods, as well as their application in industrial and territorial systems. It includes contributions tackling these themes using models and methods based on continuous and discrete optimization, network optimization, simulation and system dynamics, heuristics, metaheuristics, artificial intelligence, analytics, and also multiple-criteria decision making. The number and the increasing size of the problems arising in real life require mathematical models and solution methods adequate to their complexity. There has also been increasing research interest in Big Data and related challenges. These challenges can be recognized in many fields and systems which have a significant impact on our way of living: design, management and control of industrial production of goods and services; transportation planning and traffic management in urban and regional areas; energy production and exploitation; natural resources and environment protection; homeland security and critical infrastructure protection; development of advanced information and communication technologies. The chapters in this book examine how to deal with new and emerging practical problems arising in these different fields through the presented methodologies and their applications. The chapter topics are applicable for researchers and practitioners working in these areas, but also for the operations research community. The contributions were presented during the international conference "Optimization and Decision Science" (ODS2017), held at Hilton Sorrento Palace Conference Center, Sorrento, Italy, September 4 - 7, 2017. ODS 2017, was organized by AIRO, Italian Operations Research Society, in cooperation with DIETI (Department of Electrical Engineering and Information Technology) of University "Federico II" of Naples.

StartUP SOAR Coaching-Ray Garcia 2015-05-01 Start-up now, get inspired to create a high impact international business, make a difference by putting ideas into action, and produce a return on

investment with your talents. Entrepreneurs gain satisfaction by using their talents to produce new wealth for both society and themselves. In a modern world, employment choices typically fit established institutional norms. A “good” job in a government bureaucracy or a large corporation, with its abundance of restrictive policies, may not provide much work satisfaction despite the employment benefits and stability. If you have ever thought, dreamed, imagined, or fantasized about starting a business, or being part of a company doing creative work with a purpose, then you have started to connect with your entrepreneurial spirit. This book is for anyone who wants to better understand the entrepreneurial approach. It originated from the first entrepreneurship course I taught at the University of Pisa from 2011 through 2014 and is based on over 15 years of experience as an entrepreneur of venture backed technology companies. The course was designed for PhD researchers and MBA students looking to expand their work opportunities beyond their traditional prescribed paths into institutions and corporations. This material is not only for academic researchers, it assumes that entrepreneurship is latent in all people. Traditionally, we are taught not to aim for self-employment through entrepreneurship during the years of primary education. Anyone with an advanced education, self-motivation, ambition, a vision for how to improve the world, a good attitude, and a willingness to take on the challenge of actively exploring entrepreneurial pursuits, should be able to follow the material and put it to use in their own efforts. If you currently own or are working in a company and want to innovate and expand the business, this book might be of value in inspiring you to grow a high impact international business by leveraging the business you are already doing. Read it to prepare for the journey and put the concepts into action; do not be a passive reader. Start-up now, get inspired to create a high impact international business, make a difference by putting ideas into action, and produce a return on

investment using your talents.

Discrete and Computational Geometry-Satyan L. Devadoss

2011-04-11 Discrete geometry is a relatively new development in pure mathematics, while computational geometry is an emerging area in applications-driven computer science. Their intermingling has yielded exciting advances in recent years, yet what has been lacking until now is an undergraduate textbook that bridges the gap between the two. Discrete and Computational Geometry offers a comprehensive yet accessible introduction to this cutting-edge frontier of mathematics and computer science. This book covers traditional topics such as convex hulls, triangulations, and Voronoi diagrams, as well as more recent subjects like pseudotriangulations, curve reconstruction, and locked chains. It also touches on more advanced material, including Dehn invariants, associahedra, quasigeodesics, Morse theory, and the recent resolution of the Poincaré conjecture. Connections to real-world applications are made throughout, and algorithms are presented independently of any programming language. This richly illustrated textbook also features numerous exercises and unsolved problems. The essential introduction to discrete and computational geometry Covers traditional topics as well as new and advanced material Features numerous full-color illustrations, exercises, and unsolved problems Suitable for sophomores in mathematics, computer science, engineering, or physics Rigorous but accessible An online solutions manual is available (for teachers only). To obtain access, please e-mail:

Vickie\_Kearn@press.princeton.edu

Handbook of Technical Communication-Alexander Mehler

2012-10-30 The Handbook of Technical Communication brings together a variety of topics which range from the role of technical media in human communication to the linguistic, multimodal enhancement of present-day technologies. It covers the area of computer-mediated text, voice and multimedia communication as well as of technical documentation. In doing so, the handbook



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