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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 august 6 2009 author jon kleinberg was recently cited in the new york times for his statistical analysis research in the internet age

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this newly expanded and updated second edition of the best selling classic continues to take the mystery out of designing algorithms and analyzing their efficacy and efficiency expanding on the first edition the book now serves as the primary textbook of choice for algorithm design courses while maintaining its status as the premier practical reference guide to algorithms for programmers researchers and students the reader friendly algorithm design manual provides straightforward access to combinatorial algorithms technology stressing design over analysis the first part techniques provides accessible instruction on methods for designing and analyzing computer algorithms the second part resources is intended for browsing and reference and comprises the catalog of algorithmic resources implementations and an extensive bibliography new to the second edition doubles the tutorial material and exercises over the first edition provides full online support for lecturers and a completely updated and improved website component with lecture slides audio and video contains a unique catalog identifying the 75 algorithmic problems that arise most often in practice leading the reader down the right path to solve them includes several new war stories relating experiences from real world applications provides up to date links leading to the very best algorithm implementations available in c c and java

the textbook provides a comprehensive yet practical look at optimization theory and applications with examples and matlab programs the author introduces concepts and methods with mathematical formulations followed by clear examples the programs provided in matlab inserted in text being also downloadable are useful for practicing the methods on the given examples and for visualization of results topics covered include linear programming or calculus of variations quadratic programming integer programming etc after presenting basics the book goes on to introduce further methodological steps like interior point methods evolutionary approaches multi objective optimization and decision making including portfolio management games and the application to sparse representations also related to machine learning and image processing the reader can easily take initiative exploring other examples or cases of own interest by using modifying the programs the book is addressed to upper undergraduate and graduate students of engineering mathematics and other sciences computer studies economics and management

this two volume set of lncs 7391 and lncs 7392 constitutes the refereed proceedings of the 39th international colloquium on automata languages and programming icalp 2012 held in warwick uk in july 2012 the total of 123 revised full papers presented in this volume were carefully reviewed and selected from 432 submissions they are organized in three tracks focussing on algorithms complexity and games logic semantics automata and theory of programming and foundations of networked computation

this book explores the identification of influencers in complex networks bridging theoretical approaches with practical applications across diverse

fields it examines interdisciplinary complex systems including online social media biological networks brain networks socioeconomic and financial systems and ecosystems the research presented aims to benefit scientists in relevant areas and inspire new scientific inquiries potentially advancing the field of influencer identification in this context influencer serves as an umbrella term for essential core or central nodes within any complex network the book investigates various manifestations of influencers such as key figures in social media critical nodes in genetic and brain networks keystone species in ecosystems systemically important banks in financial markets and disease superspreaders these diverse scenarios are approached by mapping the influencer identification problem to challenges in physics or computer science the book caters to readers at three distinct levels 1 those seeking mathematically rigorous theories of influencers will find chapter 2 particularly valuable as it delves into the mathematical foundations of influencer identification algorithms subsequent chapters explore the application of these theories across various disciplines 2 data scientists interested in implementing these algorithms in their research and practical work will find relevant information throughout the book 3 professionals in finance marketing politics and social media as well as readers curious about the intersection of big data influencers and ai will gain insights into how these tools can enhance decision making processes these readers are encouraged to focus on the introduction and chapters most relevant to their fields while briefly reviewing the more technical sections by offering this multi layered approach the book aims to provide a comprehensive understanding of influencer identification in complex networks from theoretical foundations to real world applications across various domains

provides a summary of the key developments of a decade of research into the area of data exchange

this book presents a peer reviewed selection of extended versions of ten original papers that were presented at the 15th international symposium on computers in education siie 2013 held in viseu portugal the book provide a representative view of current information and communications technology ict educational research approaches in the ibero american context as well as internationally it includes studies that range from elementary to higher education from traditional to distance learning settings it considers special needs and other inclusive issues across a range of disciplines using multiple and diverse perspectives and technologies to furnish detailed information on the latest trends in ict and education globally design development and evaluation of educational software ict use and evaluation methodologies social web and collaborative systems and learning communities are some of the topics covered

this volume constitutes the proceedings of the 14th international conference on algorithmic aspects in information and management aaim 2020 held in jinhua china in august 2020 the 39 full papers and 17 short papers presented were carefully reviewed and selected from 76 submissions the papers deal with emerging important algorithmic problems with a focus on the fundamental background theoretical technology development and real world applications associated with information and management analysis modeling and data mining special considerations are given to algorithmic research that was motivated by real world applications

this book is designed for use as a primary introduction to python and can be used as an introductory text or as a resource for professionals in industry the book has been divided into four sections the first section deals with the language fundamentals primarily the procedural part of the language the second introduces the object oriented paradigms the third section deals with data structures and the last is devoted to advanced topics like handling multi dimensional arrays using numpy and visualization using matplotlib regular expressions and multi threading have been introduced in the appendices features includes sections dedicated to data structures offers in depth treatment of topics such as classes inheritance bst and numpy introduces topics like matplotlib and pil contains exercises for practice and a review of essential programming concepts

in applications as diverse as data placement in peer to peer systems control of epidemic outbreaks and routing in sensor networks the fundamental questions can be abstracted as problems in combinatorial optimization however many of these problems are np hard which makes it unlikely that exact polynomial time algorithms for them exist approximation algorithms are designed to circumvent this difficulty by finding provably near optimal solutions in polynomial time this thesis introduces a number of new combinatorial optimization problems that arise from various applications and proposes approximation algorithms for them these problems fall into two general areas graph partitioning and facility location the first problem that we introduce is the unbalanced graph cut problem here the goal is to find a graph cut minimizing the size of one of the sides while also respecting an upper bound on the number of edges cut we develop two bicriteria approximation algorithms for this problem using the technique of lagrangian relaxation and a different algorithm for its maximization version the other graph partitioning problem that we introduce and study is the min max multiway cut problem it aims to partition a graph into multiple components minimizing the maximum number of edges coming out of any component we present an approximation algorithm for this problem which uses unbalanced cuts as well as the greedy technique in the second part of the thesis we study two generalizations of the facility location problem which aims to open facilities assigning clients to them in order to minimize the facility opening costs and the connection costs in the facility location with hierarchical facility costs problem the facility costs are more general and depend on the set of assigned clients our algorithm based on the local search technique uses two new local improvement operations achieving a constant factor approximation guarantee the second generalization is the load balanced facility location problem which specifies a lower bound for the number of clients assigned to an open facility we give the first true constant factor approximation algorithm which uses a reduction to the capacitated facility location problem the thesis is concluded with related open problems and directions for future research abstract

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Introduction

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