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this book constitutes the refereeed proceedings of the 6th international conference on integer programming and combinatorial optimization ipco 98 held in houston texas usa in june 1998

the 32 revised papers presented were carefully selected from a total of 77 submissions the book is divided into sections on o 1 matrices and matroids edge connectivity algorithms integer programming computation network flows scheduling and quadratic assignment problems

six degrees of separation is a cliche as is it s a small world both cliches of the language and cliches of everyday experience but it s also an intriguing idea with a long history and some surprising implications we all live in tightly bonded social networks yet linked to vast numbers of people more closely than we sometimes think scientists have begun to apply insights from the theoretical study of networks to understand forms as superficially different as social networks and electrical networks computer networks and economic networks and to show how common principles underlie them all duncan j watts explores the science of networks and its implications ranging from the dutch tulipmania of the seventeenth century the success of harry potter the impact of september 11th on manhattan to the structure of the world wide web

the pioneering young scientist whose work on the structure of small worlds has triggered an avalanche of interest in networks in this remarkable book duncan watts one of the principal architects of network theory sets out to explain the innovative research that he and other scientists are spearheading to create a blueprint of our connected planet whether they bind computers economies or terrorist organizations networks are everywhere in the real world yet only recently have scientists attempted to explain their mysterious workings from epidemics of disease to outbreaks of market madness from people searching for information to firms surviving crisis and change from the structure of personal relationships to the technological and social choices of entire societies watts weaves together a network of discoveries across an array of disciplines to tell the story of an explosive new field of knowledge the people who are building it and his own peculiar path in forging this new science

this book constitutes the refereed proceedings of the 6th international conference on integration of ai and or techniques in constraint programming for combinatorial optimization problems cpaior 2009 held in pittsburgh pa usa in may 2009 the 20 revised full papers and 10 extended abstracts presented together with 2 invited talks were carefully reviewed and selected from 65 submissions the papers describe current research in the fields of constraint programming artificial intelligence and operations research and present new techniques or new applications in combinatorial optimization thus exploring ways of solving large scale practical optimization problems through integration and hybridization of the fields different

techniques

this book constitutes the refereed proceedings of the 12th annual european symposium on algorithms esa 2004 held in bergen norway in september 2004 the 70 revised full papers presented were carefully reviewed from 208 submissions the scope of the papers spans the entire range of algorithmics from design and mathematical issues to real world applications in various fields and engineering and analysis of algorithms

get in the game and learn essential computer algorithms by solving competitive programming problems in the fully revised second edition of the bestselling original still no math required are you hitting a wall with data structures and algorithms whether you re a student prepping for coding interviews or an independent learner this book is your essential guide to efficient problem solving in programming unlock the power of data structures algorithms learn the intricacies of hash tables recursion dynamic programming trees graphs and heaps become proficient in choosing and implementing the best solutions for any coding challenge real world competition proven code examples the programs and challenges in this book aren t just theoretical they re drawn from real programming competitions train with problems that have tested and honed the skills of coders around the world get interview ready prepare yourself for coding interviews with practice exercises that help you think algorithmically weigh different solutions and implement the best choices efficiently written in c useful across languages the code examples are written in c and designed for clarity and accessibility to those familiar with languages like c java or python if you need help with the c code no problem we ve got recommended reading too algorithmic thinking is the complete package providing the solid foundation you need to elevate your coding skills to the next level

collects the 77 papers presented during the november 2002 symposium on the mathematical foundations of computing among the topics are abstract combinatorial programs and efficient property testers a lower bound for testing 3 colorability in bounded degree graphs a spectral algorithm for learning

annotation the proceedings covers computational complexity cryptography parallel and distributed computing machine learning logic coding theory theoretical databases information technology networks quantum computing and much more

proceedings of a july 2001 conference covering all aspects of dependability in classical and networked computer systems as well as topical areas in it there is a special focus on safety

and security issues in embedded multimedia and internet applications papers are in sections on modeling algorithms software demos replication software robustness survivability and security wireless and mobile communications real time testing and runtime error detection models for fault tolerance hardware architecture and design group oriented systems and practical experiences specific topics include model based synthesis of fault trees from matlab a dynamic replica selection algorithm for tolerating timing faults constructing self testable software components and intrusion tolerant group management in enclaves this volume lacks a subject index c book news inc

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