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ALL-OR-NONE SOLUTIONS

SEARCH FOR A SOLUTION

SUSTAINING THE LAND, PEOPLE, AND ECONOMY OF THE BLUE MOUNTAINS

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Notion Press **Searching & sorting algorithms form the back bone of coding acumen of developers. This book comprehensively covers In-depth tutorial & analysis of all major algorithms and techniques used to search and sort across data structures. All major variations of each algorithm (e.g. Ternary, Jump, Exponential, Interpolation are variations of Binary search). 110 real coding interview questions as solved examples and unsolved problems. Case studies of implementation of searching and sorting in language libraries. Introduction to how questions are asked and expected to answer on online competitive coding and hiring platforms like hackerrank.com, codechef.com, etc. Introduction to data structures.**

AUTONOMY ORIENTED COMPUTING

FROM PROBLEM SOLVING TO COMPLEX SYSTEMS MODELING

Springer Science & Business Media **Autonomy Oriented Computing is a comprehensive reference for scientists, engineers, and other professionals concerned with this promising development in computer science. It can also be used as a text in graduate/undergraduate programs in a broad range of computer-related disciplines, including Robotics and Automation, Amorphous Computing, Image Processing, Programming Paradigms, Computational Biology, etc. Part One describes the basic concepts and characteristics of an AOC system and enumerates the critical design and engineering issues faced in AOC system development. Part Two gives detailed analyses of methodologies and case studies to evaluate AOC used in problem solving and complex system modeling. The final chapter outlines possibilities for future research and development. Numerous illustrative examples, experimental case studies, and exercises at the end of each chapter of Autonomy Oriented Computing help particularize and consolidate the methodologies and theories presented.**

CRITICAL DEVELOPMENTS AND APPLICATIONS OF SWARM INTELLIGENCE

IGI Global **Artificial intelligence is a constantly advancing field that requires models in order to accurately create functional systems. The use of natural acumen to create artificial intelligence creates a field of research in which the natural and the artificial meet in a new and innovative way. Critical Developments and Applications of Swarm Intelligence is a critical academic publication that examines developing research, technologies, and function regarding natural and artificial acumen specifically, in regards to self-organized systems. Featuring coverage on a broad range of topics such as evolutionary algorithms, optimization techniques, and computational comparison, this book is geared toward academicians, students, researchers, and engineers seeking relevant and current research on the progressive research based on the implementation of swarm intelligence in self-organized systems.**

THE COMPLETE PROBLEM SOLVER

Routledge **This unique volume returns in its second edition, revised and updated with the latest advances in problem solving research. It is designed to provide readers with skills that will make them better problem solvers and to give up-to-date information about the psychology of problem solving. Professor Hayes provides students and professionals with practical, tested methods of defining, representing, and solving problems. Each discussion of the important aspects of human problem solving is supported by the most current research on the psychology problem solving. The Complete Problem Solver, Second Edition features: *Valuable learning strategies; *Decision making methods; *Discussions of the nature of creativity and invention, and *A new chapter on writing. The Complete Problem Solver utilizes numerous examples, diagrams, illustrations, and charts to help any reader become better at problem solving. See the order form for the answer to the problem below.**

PRACTICAL HANDBOOK OF GENETIC ALGORITHMS

COMPLEX CODING SYSTEMS, VOLUME III

CRC Press **Practical Handbook of Genetic Algorithms, Volume 3: Complex Coding Systems contains computer-code examples for the development of genetic algorithm systems - compiling them from an array of practitioners in the field. Each contribution of this singular resource includes: unique code segments documentation descripti**

TRIZ FOR ENGINEERS: ENABLING INVENTIVE PROBLEM SOLVING

John Wiley & Sons **TRIZ is a brilliant toolkit for nurturing engineering creativity and innovation. This accessible, colourful and practical guide has been developed from problem-solving workshops run by Oxford Creativity, one of the world's top TRIZ training organizations started by Gadd in 1998. Gadd has successfully introduced TRIZ to many major organisations such as Airbus, Sellafield Sites, Saint-Gobain, DCA, Doosan Babcock, Kraft, Qinetiq, Trelleborg, Rolls Royce and BAE Systems, working on diverse major projects including next generation submarines, chocolate packaging, nuclear clean-up, sustainability and cost reduction. Engineering companies are increasingly recognising**

and acting upon the need to encourage successful, practical and systematic innovation at every stage of the engineering process including product development and design. TRIZ enables greater clarity of thought and taps into the creativity innate in all of us, transforming random, ineffective brainstorming into targeted, audited, creative sessions focussed on the problem at hand and unlocking the engineers' knowledge and genius to identify all the relevant solutions. For good design engineers and technical directors across all industries, as well as students of engineering, entrepreneurship and innovation, TRIZ for Engineers will help unlock and realise the potential of TRIZ. The individual tools are straightforward, the problem-solving process is systematic and repeatable, and the results will speak for themselves. This highly innovative book: Satisfies the need for concise, clearly presented information together with practical advice on TRIZ and problem solving algorithms Employs explanatory techniques, processes and examples that have been used to train thousands of engineers to use TRIZ successfully Contains real, relevant and recent case studies from major blue chip companies Is illustrated throughout with specially commissioned full-colour cartoons that illustrate the various concepts and techniques and bring the theory to life Turns good engineers into great engineers.

PRINCIPLES AND PRACTICE OF CONSTRAINT PROGRAMMING - CP 2001

7TH INTERNATIONAL CONFERENCE, CP 2001, PAPHOS, CYPRUS, NOVEMBER 26 - DECEMBER 1, 2001, PROCEEDINGS

Springer **This book constitutes the refereed proceedings of the 7th International Conference on Principles and Practice of Constraint Programming, CP 2001, held in Paphos, Cyprus, in November/December 2001. The 37 revised full papers, 9 innovative applications presentations, and 14 short papers presented were carefully reviewed and selected from a total of 135 submissions. All current issues in constraint processing are addressed, ranging from theoretical and foundational issues to advanced and innovative applications in a variety of fields.**

ARTIFICIAL INTELLIGENCE FOR ADVANCED PROBLEM SOLVING TECHNIQUES

IGI Global **One of the most important functions of artificial intelligence, automated problem solving, consists mainly of the development of software systems designed to find solutions to problems. These systems utilize a search space and algorithms in order to reach a solution. Artificial Intelligence for Advanced Problem Solving Techniques offers scholars and practitioners cutting-edge research on algorithms and techniques such as search, domain independent heuristics, scheduling, constraint satisfaction, optimization, configuration, and planning, and highlights the relationship between the search categories and the various ways a specific application can be modeled and solved using advanced problem solving techniques.**

HANDBOOK OF OPTIMIZATION IN TELECOMMUNICATIONS

Springer Science & Business Media **This comprehensive handbook brings together experts who use optimization to solve problems that arise in telecommunications. It is the first book to cover in detail the field of optimization in telecommunications. Recent optimization developments that are frequently applied to telecommunications are covered. The spectrum of topics covered includes planning and design of telecommunication networks, routing, network protection, grooming, restoration, wireless communications, network location and assignment problems, Internet protocol, World Wide Web, and stochastic issues in telecommunications. The book’s objective is to provide a reference tool for the increasing number of scientists and engineers in telecommunications who depend upon optimization.**

ALGORITHMS FOR SCHEDULING PROBLEMS

MDPI **This book is a printed edition of the Special Issue " Algorithms for Scheduling Problems" that was published in Algorithms**

MACHINE LEARNING AND BIG DATA ANALYTICS PARADIGMS: ANALYSIS, APPLICATIONS AND CHALLENGES

Springer Nature **This book is intended to present the state of the art in research on machine learning and big data analytics. The accepted chapters covered many themes including artificial intelligence and data mining applications, machine learning and applications, deep learning technology for big data analytics, and modeling, simulation, and security with big data. It is a valuable resource for researchers in the area of big data analytics and its applications.**

IN SEARCH OF MORE SOLUTIONS

MORE IDEAS FOR PROBLEM SOLVING ACTIVITIES

A STONE IN SPAIN'S SHOE

THE SEARCH FOR A SOLUTION TO THE PROBLEM OF GIBRALTAR

A detailed analysis of the attempt by Britain and Spain since 1980 to solve their dispute over the future of Gibralter, the last-remaining colony in Europe. Using Spanish as well as British sources, the book examines the events which have taken place following the signing of the Lisbon Agreement.

OPERATION RESEARCH

INVENTORY CONTROL AND QUEUING THEORY

Discovery Publishing House **The subject matter has been discussed in such a simple way that the students will find no difficulty to understand it. The proof of various theorems and examples has been given with minute details. Each chapter of this book contains complete theory and fairly large number of solved examples, sufficient problems have also been selected from various universities examination papers. Contents: Inventory Control, Non-Linear Programming Methods, Problem Analysis, Queuing Theory.**

GENETIC ALGORITHMS IN JAVA BASICS

Apress **Genetic Algorithms in Java Basics is a brief introduction to solving problems using genetic algorithms, with working projects and solutions written in the Java programming language. This brief book will guide you step-by-step through various implementations of genetic algorithms and some of their common applications, with the aim to give you a practical understanding allowing you to solve your own unique, individual problems. After reading this book you will be comfortable with the language specific issues and concepts involved with genetic algorithms and you'll have everything you need to start building your own. Genetic algorithms are frequently used to solve highly complex real world problems and with this book you too can harness their problem solving capabilities. Understanding how to utilize and implement genetic algorithms is an essential tool in any respected software developers toolkit. So step into this intriguing topic and learn how you too can improve your software with genetic algorithms, and see real Java code at work which you can develop further for your own projects and research. Guides you through the theory behind genetic algorithms Explains how genetic algorithms can be used for software developers trying to solve a range of problems Provides a step-by-step guide to implementing genetic algorithms in Java**

NEW ADVANCES IN MISSION PLANNING AND REHEARSAL SYSTEMS

EVOLUTIONARY COMPUTATION

BoD – Books on Demand **This book presents several recent advances on Evolutionary Computation, specially evolution-based optimization methods and hybrid algorithms for several applications, from optimization and learning to pattern recognition and bioinformatics. This book also presents new algorithms based on several analogies and metafores, where one of them is based on philosophy, specifically on the philosophy of praxis and dialectics. In this book it is also presented interesting applications on bioinformatics, specially the use of particle swarms to discover gene expression patterns in DNA microarrays. Therefore, this book features representative work on the field of evolutionary computation and applied sciences. The intended audience is graduate, undergraduate, researchers, and anyone who wishes to become familiar with the latest research work on this field.**

TWENTY LECTURES ON ALGORITHMIC GAME THEORY

Cambridge University Press **Computer science and economics have engaged in a lively interaction over the past fifteen years, resulting in the new field of algorithmic game theory. Many problems that are central to modern computer science, ranging from resource allocation in large networks to online advertising, involve interactions between multiple self-interested parties. Economics and game theory offer a host of useful models and definitions to reason about such problems. The flow of ideas also travels in the other direction, and concepts from computer science are increasingly important in economics. This book grew out of the author's Stanford University course on algorithmic game theory, and aims to give students and other newcomers a quick and accessible introduction to many of the most important concepts in the field. The book also includes case studies on online advertising, wireless spectrum auctions, kidney exchange, and network management.**

ADVANCES IN PRODUCTION MANAGEMENT SYSTEMS. VALUE NETWORKS: INNOVATION, TECHNOLOGIES, AND MANAGEMENT

IFIP WG 5.7 INTERNATIONAL CONFERENCE, APMS 2011, STAVANGER, NORWAY, SEPTEMBER 26-28, 2011, REVISED SELECTED PAPERS

Springer **This book constitutes the thoroughly refereed post-conference proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2011, held in Stavanger, Norway, in September 2011. The 66 revised and extended full papers were carefully reviewed and selected from 124 papers presented at the conference. The papers are organized in 3 parts: production process, supply chain management, and strategy. They represent the breadth and complexity of topics in operations management, ranging from optimization and use of technology, management of organizations and networks, to sustainable production and globalization. The authors use a broad range of methodological approaches spanning from grounded theory and qualitative methods, via a broad set of statistical methods to modeling and simulation techniques.**

NATURE-INSPIRED ALGORITHMS FOR OPTIMISATION

Springer **Nature-Inspired Algorithms have been gaining much popularity in recent years due to the fact that many real-world optimisation problems have become increasingly large, complex and dynamic. The size and complexity of the problems nowadays require the development of methods and solutions whose efficiency is measured by their ability to**

find acceptable results within a reasonable amount of time, rather than an ability to guarantee the optimal solution. This volume 'Nature-Inspired Algorithms for Optimisation' is a collection of the latest state-of-the-art algorithms and important studies for tackling various kinds of optimisation problems. It comprises 18 chapters, including two introductory chapters which address the fundamental issues that have made optimisation problems difficult to solve and explain the rationale for seeking inspiration from nature. The contributions stand out through their novelty and clarity of the algorithmic descriptions and analyses, and lead the way to interesting and varied new applications.

METAHEURISTIC OPTIMIZATION VIA MEMORY AND EVOLUTION

TABU SEARCH AND SCATTER SEARCH

Springer Science & Business Media **Tabu Search (TS) and, more recently, Scatter Search (SS) have proved highly effective in solving a wide range of optimization problems, and have had a variety of applications in industry, science, and government. The goal of Metaheuristic Optimization via Memory and Evolution: Tabu Search and Scatter Search is to report original research on algorithms and applications of tabu search, scatter search or both, as well as variations and extensions having "adaptive memory programming" as a primary focus. Individual chapters identify useful new implementations or new ways to integrate and apply the principles of TS and SS, or that prove new theoretical results, or describe the successful application of these methods to real world problems.**

MATHEMATICAL OPTIMIZATION THEORY AND OPERATIONS RESEARCH

18TH INTERNATIONAL CONFERENCE, MOTOR 2019, EKATERINBURG, RUSSIA, JULY 8-12, 2019, PROCEEDINGS

Springer **This book constitutes the proceedings of the 18th International Conference on Mathematical Optimization Theory and Operations Research, MOTOR 2019, held in Ekaterinburg, Russia, in July 2019. The 48 full papers presented in this volume were carefully reviewed and selected from 170 submissions. MOTOR 2019 is a successor of the well-known International and All-Russian conference series, which were organized in Ural, Siberia, and the Far East for a long time. The selected papers are organized in the following topical sections: mathematical programming; bi-level optimization; integer programming; combinatorial optimization; optimal control and approximation; data mining and computational geometry; games and mathematical economics.**

OPTIMIZATION BY GRASP

GREEDY RANDOMIZED ADAPTIVE SEARCH PROCEDURES

Springer **This is the first book to cover GRASP (Greedy Randomized Adaptive Search Procedures), a metaheuristic that has enjoyed wide success in practice with a broad range of applications to real-world combinatorial optimization problems. The state-of-the-art coverage and carefully crafted pedagogical style lends this book highly accessible as an introductory text not only to GRASP, but also to combinatorial optimization, greedy algorithms, local search, and path-relinking, as well as to heuristics and metaheuristics, in general. The focus is on algorithmic and computational aspects of applied optimization with GRASP with emphasis given to the end-user, providing sufficient information on the broad spectrum of advances in applied optimization with GRASP. For the more advanced reader, chapters on hybridization with path-relinking and parallel and continuous GRASP present these topics in a clear and concise fashion. Additionally, the book offers a very complete annotated bibliography of GRASP and combinatorial optimization. For the practitioner who needs to solve combinatorial optimization problems, the book provides a chapter with four case studies and implementable templates for all algorithms covered in the text. This book, with its excellent overview of GRASP, will appeal to researchers and practitioners of combinatorial optimization who have a need to find optimal or near optimal solutions to hard combinatorial optimization problems.**

OPTIMIZATION MODELLING

A PRACTICAL APPROACH

CRC Press **Although a useful and important tool, the potential of mathematical modelling for decision making is often neglected. Considered an art by many and weird science by some, modelling is not as widely appreciated in problem solving and decision making as perhaps it should be. And although many operations research, management science, and optimization books touch on modelling techniques, the short shrift they usually get in coverage is reflected in their minimal application to problems in the real world. Illustrating the important influence of modelling on the decision making process, Optimization Modelling: A Practical Approach helps you come to grips with a wide range of modelling techniques. Highlighting the modelling aspects of optimization problems, the authors present the techniques in a clear and straightforward manner, illustrated by examples. They provide and analyze the formulation and modelling of a number of well-known theoretical and practical problems and touch on solution approaches. The book demonstrates the use of optimization packages through the solution of various mathematical models and provides an interpretation of some of those solutions. It presents the practical aspects and difficulties of problem solving and solution implementation and studies a number of practical problems. The book also discusses the use of available software packages in solving optimization models without going into difficult mathematical details and complex solution methodologies. The emphasis on modelling techniques rather than solution algorithms sets this book apart. It is a single source for a wide range of methods, classic theoretical and practical problems, data collection and input preparation, the use of different optimization software, and practical issues of modelling, model solving, and**

implementation. The authors draw directly from their experience to provide lessons learned when applying modelling techniques to practical problem solving and implementation difficulties.

ARTIFICIAL EVOLUTION

10TH INTERNATIONAL CONFERENCE, EVOLUTION ARTIFICIELLE, EA 2011, ANGERS, FRANCE, OCTOBER 24-26, 2011, REVISED SELECTED PAPERS

Springer **This book constitutes selected best papers from the 10th International Conference on Artificial Evolution, EA 2011, held in Angers, France, in October 2011. Initially, 33 full papers and 10 post papers were carefully reviewed and selected from 64 submissions. This book presents the 19 best papers selected from these contributions. The papers are organized in topical sections on ant colony optimization; multi-objective optimization; analysis; implementation and robotics; combinatorial optimization; learning and parameter tuning; new nature inspired models; probabilistic algorithms; theory and evolutionary search; and applications.**

BIOINSPIRED DESIGN AND CONTROL OF ROBOTS WITH INTRINSIC COMPLIANCE

Frontiers Media SA

CREATIVITY IN INTELLIGENT TECHNOLOGIES AND DATA SCIENCE

THIRD CONFERENCE, CIT&DS 2019, VOLGOGRAD, RUSSIA, SEPTEMBER 16–19, 2019, PROCEEDINGS, PART II

Springer Nature **This two-volume set constitutes the proceedings of the Third Conference on Creativity in Intellectual Technologies and Data Science, CIT&DS 2019, held in Volgograd, Russia, in September 2019. The 67 full papers, 1 short paper and 3 keynote papers presented were carefully reviewed and selected from 231 submissions. The papers are organized in topical sections in the two volumes. Part I: cyber-physical systems and Big Data-driven world. Part II: artificial intelligence and deep learning technologies for creative tasks; intelligent technologies in social engineering.**

PROBLEM-SOLVING AND DECISION MAKING: ILLUSTRATED COURSE GUIDES

Cengage Learning **The Illustrated Series Soft Skills titles are designed to make it easy to teach students the essential soft skills necessary to succeed in today's competitive workplace. Each book and companion CourseMate cover 40 critical skills, providing students with extensive knowledge they can bring with them into the real world. CourseMate brings each text to life with an audio visual eBook, scenario videos, access to Career Transitions, interactive activities for reinforcement, and Engagement Tracker, a first-of-its-kind tool that monitors student engagement in the course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.**

THEORETICAL ASPECTS OF LOCAL SEARCH

Springer Science & Business Media **Local search has been applied successfully to a diverse collection of optimization problems. However, results are scattered throughout the literature. This is the first book that presents a large collection of theoretical results in a consistent manner. It provides the reader with a coherent overview of the achievements obtained so far, and serves as a source of inspiration for the development of novel results in the challenging field of local search.**