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The Traveling Salesman Problem In Pursuit of the Traveling Salesman The Traveling Salesman Problem and Its Variations A New Approach to Solve for the Traveling Salesman Problem with Time Windows Novel Trends in the Traveling Salesman Problem The A-priori Dynamic Traveling Salesman Problem with Time Windows The traveling salesman problem The Traveling Salesman Problem An Algorithm for Solving the Traveling-salesman Problem with Three-dimensional Polygonal Barriers Solving Traveling Salesman Problem with a Non-complete Graph A New Strategy to Solve the Traveling Salesman Problem with a Multi-agent System Solution of the Multiple Traveling Salesman Problem with a Circulation Network Model Approximating Asymmetric Traveling Salesman Problem with Distances One and Two The Traveling Salesman Problem with Two Distinct Tour Values The M-traveling Salesman Problem with Minmax Objective A Branch-and-cut Algorithm for the Double Traveling Salesman Problem with Multiple Stacks The Stochastic Travelling Salesman Problem with Dynamic Node Choices The General Traveling Salesman Problem Solving the Traveling Salesman Problem with Siumulated Annealing Techniques on a Concurrent Supercomputer Solvable Cases of the Traveling Salesman Problem with Various Objective Functions A Branch-and-cut Approach to a Traveling Salesman Problem with Side Constraints On the traveling salesman problem with a relaxed Monge matrix Time Dependent Travelling Salesman Solvable Cases of the Traveling Salesman Problem with Various Objective Functions Solvable Cases of the Traveling Salesman Problem with Warious Objective Functions A Note on the Symmetric Multiple Travelling Salesman Problem with Fixed Charges Reglement van de begrafenis-bos de Vrijwillige bijeenkomst te Haarlem The Travelling Salesman Problem with Cumulative Costs An Exact Parallel Algorithm for the Resource Constrained Traveling Salesman Problem with Application to Scheduling with an Aggregate Deadline An Algorithm for the Traveling Salesman Problem A Linear Programming Approach for the Traveling Salesman Problem The A-priori Dynamic Traveling Salesman Problem with Time Windows The M-Traveling Salesman Problem with Minimax Objective Solving the asymmetric travelling Salesman problem with time windows by branch and cut Salving the Traveling Salesman Problem with Gaussian Process Regression An Efficient Transformation of the Generalized Traveling Salesman Problem An Optimal Algorithm for the Traveling Salesman Problem with Time Windows The Traveling Salesman Problem Solving the Traveling Salesman Problem with Simulated Annealing Techniques on a Concurrent Supercomputer Some Experiments on the Traveling-salesman Problem

This book contains original heuristic algorithms for obtaining near optimal solutions to the symmetric, asymmetric and the bottleneck traveling salesman problems. In each instance, the algorithms can be applied to the general case. The Traveling Salesman Problem (TSP) is widely considered one of the most intensively studied problems in computational mathematics and operations research. Since its inception, it has become the poster child for computational complexity research. A number of problems have been transformed to a TSP problem and its application base now extends into scheduling, manufacturing, routing, and logistics. With the advent of high-performance computing and advanced meta-heuristics such as GPU programming and swarm-based algorithms, the TSP problem is positioned firmly as the go-to problem for the development of the next generation of high-performance intelligent heuristics. This book looks to leverage some of these new paradigms for both students and researchers in this field. The Traveling Salesman Problem is central to the area of Combinatorial Optimization, and it is through this problem that many of the most important developments in the area have been made. This book focuses on essential ideas; through them it illustrates all the concepts and techniques of combinatorial optimization concisely but comprehensively. The extensive reference list and numerous exercises direct the reader towards related fields, and give results. Each of the twelve

chapters in this volume is concerned with a specific aspect of the Traveling Salesman Problem, and is written by an authority on that aspect. It is hoped, that the book will serve as a state-of-the-art survey of the Traveling Salesman problem which will encourage further investigations, and that it will also be useful for its comprehensive coverage of the techniques of combinatorial optimization. Abstract: "The Resource Constrained Traveling Salesman Problem (RCTSP) is introduced and an optimal algorithm for its solution is presented. The RCTSP is shown to subsume the Prize Collecting TSP and Orienteering Problem. Computational results are presented for sequential and parallel computations for problems containing up to 200 cities. The RCTSP problem is used to optimally schedule a processing facility involving sequence dependent transition costs and an aggregate due date on all job completion times. A penalty is incurred for each job not completed by the aggregate due date." A brilliant treatment of a knotty problem in computing. This volume contains chapters written by reputable researchers and provides the state of the art in theory and algorithms for the traveling salesman problem (TSP). The book covers all important areas of study on TSP, including polyhedral theory for symmetric and asymmetric TSP, branch and bound, and branch and cut algorithms, probabilistic aspects of TSP, and includes a thorough computational analysis of heuristic and metaheuristic algorithms. One of the simplest, but still NP-hard, routing problems is the Traveling Salesman Problem (TSP). In the TSP, one is given a set of cities and a way of measuring the distance between cities. One has to find the shortest tour that visits all cities exactly once and returns back to the starting city. In state-of-the-art algorithms, they all assume that a complete graph is given as an input. However, for very large graphs, generating all edges in a complete graph, which corresponds to finding shortest paths for all city pairs, could be time-consuming. This is definitely a major obstacle for some real-life applications, especially when the tour needs to be generated in real-time. The objective, in this thesis, is to find a near-optimal TSP tour with a reduced set of edges in the complete graph. In particular, the following problems are investigated: which subset of edges can be produced in a shorter time comparing to the time for generating the complete graph? Is there a subset of edges in the complete graph that results in a better near-optimal tour than other sets? With a non-complete graph, which improvement algorithms work better? In this thesis, we study six algorithms to generate subsets of edges in a complete graph. To evaluate the proposed algorithms, extensive experiments are conducted with the well-known TSP data in a TSP library. In these experiments, we evaluate these algorithms in terms of tour quality, time and scalability. Abstract: "Many optimization problems have several equivalent mathematical models. It is often not apparent which of these models is most suitable for practical computation, in particular, when a certain application with a specific range of instance sizes is in focus. Our paper addresses the Asymmetric Travelling Salesman Problem with time windows (ATSP-TW) from such a point of view. The real-world application we aim at is the control of a stacker crane in a warehouse. We have implemented codes based on three alternative integer programming formulations of the ATSP-TW and more than ten heuristics. Computational results for real-world instances with up to 233 nodes are reported, showing that a new model presented in a companion paper outperforms the other two models we considered -- at least for our special application -- and that the heuristics provide acceptable solutions." The story of one of the greatest unsolved problems in mathematics What is the shortest possible route for a traveling salesman seeking to visit each city on a list exactly once and return to his city of origin? It sounds simple enough, yet the traveling salesman problem is one of the most intensely studied puzzles in applied mathematics—and it has defied solution to this day. In this book, William Cook takes readers on a mathematical excursion, picking up the salesman's trail in the 1800s when Irish mathematician W. R. Hamilton first defined the problem, and venturing to the furthest limits of today's state-of-the-art attempts to solve it. He also explores its many important applications, from genome sequencing and designing computer processors to arranging music and hunting for planets. In Pursuit of the Traveling Salesman travels to the very threshold of our understanding about the nature of complexity, and challenges you yourself to discover the solution to this captivating mathematical problem. This book presents the latest findings on one of the most intensely investigated subjects in computational mathematics--the traveling salesman problem. It sounds simple enough: given a set of

cities and the cost of travel between each pair of them, the problem challenges you to find the cheapest route by which to visit all the cities and return home to where you began. Though seemingly modest, this exercise has inspired studies by mathematicians, chemists, and physicists. Teachers use it in the classroom. It has practical applications in genetics, telecommunications, and neuroscience. The authors of this book are the same pioneers who for nearly two decades have led the investigation into the traveling salesman problem. They have derived solutions to almost eighty-six thousand cities, yet a general solution to the problem has yet to be discovered. Here they describe the method and computer code they used to solve a broad range of large-scale problems, and along the way they demonstrate the interplay of applied mathematics with increasingly powerful computing platforms. They also give the fascinating history of the problem--how it developed, and why it continues to intrigue us.

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