

The Traveling Salesman Problem and Its Variations

Gregory Gutin and Abraham P. Punnen (Eds.)

This volume, which contains chapters written by well-established researchers, provides state-of-the-art in the 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, thorough computational analysis of heuristic and metaheuristic algorithms, theoretical analysis of approximation algorithms including the emerging area of domination analysis of algorithms, discussion on TSP software and variations of TSP such as bottleneck TSP, generalized TSP, prize collecting TSP, maximizing TSP, orienteering problem, etc.

Audience

Researchers, practitioners, and academicians in mathematics, computer science, and operations research.

Appropriate as a reference work or as a main or supplement textbook in graduate and senior undergraduate courses and projects.

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