

Parallel Processing of Discrete Optimization Problems *

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Abstract

Discrete optimization problems (DOPs) arise in various applications such as planning, scheduling, computer aided design, robotics, game playing and constraint directed reasoning. Often, a DOP is formulated in terms of finding a (minimum cost) solution path in a graph from an initial node to a goal node and solved by graph/tree search methods such as branch-and-bound and dynamic programming. Availability of parallel computers has created substantial interest in exploring the use of parallel processing for solving discrete optimization problems. This article provides an overview of parallel search algorithms for solving discrete optimization problems.

1 Introduction.

Discrete optimization problems (DOPs) arise in various applications such as planning, scheduling, computer aided design, robotics, game playing and constraint directed reasoning. Formally, a DOP can be stated as follows : *Given a finite discrete set X and a function $f(x)$ defined on the elements of X , find an optimal element x_{opt} , such that, $f(x_{opt}) = \min\{f(x)/x \in X\}$. In*

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given the name of crossover In other population based methods based on the notion of path relinking neighborhood structures are used in their full generality including constructive and destructive neighborhoods as well as those for transitioning between complete solutions Certain hybrids of classical evolutionary approaches which link them with local search also use neighborhood structures more fully though apart from the combination process itself

Encyclopedia of Microcomputers Allen Kent, James G. Williams, 1993-11-18 The Encyclopedia of Microcomputers serves as the ideal companion reference to the popular Encyclopedia of Computer Science and Technology Now in its 10th year of publication this timely reference work details the broad spectrum of microcomputer technology including microcomputer history explains and illustrates the use of microcomputers throughout academe business government and society in general and assesses the future impact of this rapidly changing technology

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Encyclopedia of Optimization Christodoulos A. Floudas, Panos M. Pardalos, 2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling

An Integrated Approach to the Parallel Processing of Explicit/discrete Element Problems J. M. P. Macedo, 1997

Introduction to Scheduling Yves Robert, Frederic Vivien, 2009-11-18 Full of practical examples Introduction to Scheduling presents the basic concepts and methods fundamental results and recent developments of scheduling theory With contributions from highly respected experts it provides self contained easy to follow yet rigorous presentations of the material The book first classifies scheduling problems and

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