

This chapter deals with the containership stowage problem. It is an NP-hard combinatorial optimization whose goal is to find optimal plans for stowing containers into a containership with low operational costs, subject to a set of structural and operational constraints.

LIBRO: Recent Advances on Hybrid Approaches for Designing Intelligent Systems - Springer International Publishing (pags. -), MÉXICO; ISBN: 978-3-319-05169-7;

PROPÓSITO: Generación de Conocimiento; SECTOR → DISCIPLINA: (Tecnologías de la Información y Comunicaciones → Computación)

2014-
03-27

Preference Incorporation into Evolutionary Multiobjective Optimization Using a Multi-Criteria Evaluation Method

Autor(es): Cruz-Reyes, Laura; Fernandez, Eduardo; Gomez, Claudia; Sanchez, Patricia

In this chapter, we introduce a new way to incorporate and update the DM's preferences into a Multiobjective Evolutionary Algorithm, expressed in a set of solutions assigned to ordered categories.

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A Decision Support System Framework for Public Project Portfolio Selection with Argumentation Theory

Autor(es): Cruz-Reyes, Laura; Medina-Trejo, César; López-Irarragorri, Fernando; Gómez-Santillán, Claudia G.

In this Chapter we propose a quality model of portfolio and an algorithm that solves it. The experimental results show that the algorithm that includes our model offers benefits to the decision maker, and his advantages highlighted with respect to the related works reported in the state of the art.

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Quality-Assessment Model for Portfolios of Projects Expressed by a Priority Ranking

Autor(es): Bastiani, S. Samantha; Cruz-Reyes, Laura; Fernandez, Eduardo; Gómez, Claudia; Rivera, Gilberto

In this Chapter we propose a quality model of portfolio and an algorithm that solves it. The experimental results show that the algorithm that includes our model offers benefits to the decision maker, and his advantages highlighted with respect to the related works reported in the state of the art.

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Generic Memetic Algorithm for Course Timetabling ITC2007

Autor(es): Soria-Alcaraz, Jorge; Carpio, Martín; Puga, Hector; Melin, Patricia; Terashima-Marin, Hugo; Cruz-Reyes, Laura; Sotelo-Figueroa, Marco

Course timetabling is an important and recurring administrative activity in most educational institutions. This chapter describes an automated configuration of a generic memetic algorithm to solving this problem.

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02-07

A Hybrid Metaheuristic Algorithm for the Quay Crane Scheduling Problem

Autor(es): Cruz-Reyes, Laura; Lam-Alvarez, Arturo; Quiroz-Castellanos, Marcela; Gómez, Claudia; Rangel-Valdez, Nelson; Castilla-Valdez, Guadalupe; Gonzalez-Barbosa, Javier.

A Hybrid Metaheuristic Algorithm for the Quay Crane Scheduling Problem

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2013-
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Methodology of design: A novel generic approach applied to the course timetabling problem

Autor(es): Soria-Alcaraz, Jorge; Carpio, Martín; Puga, Héctor; Terashima-Marin, Hugo; Cruz-Reyes, Laura; Sotelo-Figueroa, Marco A.

The main objectives in this chapter are: to show the construction of a two-phase algorithm based in a novel generic approach called design methodology and to find which metaheuristic algorithm shows a better performance in terms of quality. The design methodology generates set of generic structures: MMA, LPH, LPA and LPS.

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Memetic Algorithm for Solving the Problem of Social Portfolio Using Outranking Model

Autor(es): Gómez-Santillán, Claudia; Fernández-González, Eduardo; Cruz-Reyes, Laura; Bastiani, S. Samantha; Rivera-Zarate, Gilberto; Ruiz, Victoria

This paper examines the use of multi objective methods leading to a ranking of quality of all selected projects and allocates resources according to priority ranking projects until the budget is exhausted.

LIBRO: Recent Advances on Hybrid Intelligent Systems - Springer Berlin Heidelberg (pags. -), MÉXICO; ISBN: 978-3-642-33020-9;