

## Meta Heuristics For Large Scale Process Scheduling

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### **Hybrid meta-heuristics with VNS and exact methods ...**

In addition, some large-scale problems are employed to measure the effectiveness and efficiency of hybrid algorithms. Obtained results from these heuristics are compared with local search

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methods and with each other. The experimental results show that the hybrid meta-heuristics produce much better solutions to solve large-scale problems.

### **Sustainable tire closed-loop supply chain network design**

...

For a very large-scale neighborhood search, ... even with additional meta-heuristic techniques such as Simulated Annealing or Tabu search. In large neighborhood search techniques, the possible changes from one solution to its neighbor may allow tens or hundreds of values to change, and this means that the size of the neighborhood may itself be ...

### **Meta-Heuristics in Short Scale Construction: Ant Colony**

...

Metaheuristic Algorithms for Large-Scale Networks Abstract  
Growing environmental concerns and social legislations enforce

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decision makers to design their

## **A comparative study of heuristic algorithms to solve ...**

This thesis research aims at the study and development of meta-heuristic methods and their hybrids for large-scale complex process scheduling problems, with the purpose to enhance the feasibility, solution quality and solution speed. Specifically, four typical classes of problems have been studied.

## **[1812.06585] Generalizable Meta-Heuristic based on ...**

Meta-Heuristics in Short Scale Construction: Ant Colony Optimization and Genetic Algorithm ... The advent of large-scale assessment, but also the more frequent use of longitudinal and multivariate approaches to measurement in psychological, educational, and sociological research, caused an increased demand for psychometrically sound short ...

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## **Online Decisioning Meta-Heuristic Framework for Large**

...

Mingde Zhao, Student Member, IEEE, Hongwei Ge, Yi Lian, C.L. Philip Chen, Fellow, IEEE M. Zhao is with the School of Computer Science and Technology, Dalian University of Technolo

## **Online Vehicle Routing: The Edge of Optimization in Large**

...

Abstract Large-scale unconditional and conditional vertex p-centre problems are solved using two meta-heuristics. One is based on a three-stage approach whereas the other relies on a guided multi-start principle. Both methods incorporate Variable Neighbourhood Search, exact method, and aggregation techniques. The methods are

## **Heuristic and meta-heuristic algorithms for solving medium ...**

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In this paper, a hybrid meta-heuristic is designed and implemented to solve large-scale instances (i.e., state or regional problems) since there is a lack of algorithms that combine the features of meta-heuristics and exact methods to solve NP-hard problems, in particular, NP-hard problems that involve stochasticity related with the production and distribution of biofuels.

## **IRMA-International.org: Investigating of Hybrid Meta ...**

that there is a lot more to learn about solving Large-Scale Vehicle Routing Problems. In this master thesis we attempt to narrow that gap by examining the aspect of cluster first - route second in combination with meta-heuristics that are better suited for small instances, compared to meta-

## **Very large-scale neighborhood search - Wikipedia**

The usefulness of meta-heuristic algorithms is demonstrated for

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solving a large scale NP-hard combinatorial optimization problem. The paper also shows that the utilization of the directed search methods such as hybridization could substantially improve the performance of a meta-heuristic.

### **Meta-Heuristics in Short Scale Construction: Ant Colony**

...

Heuristic and meta-heuristic algorithms for solving medium and large scale sized cellular manufacturing system NP-hard problems: A comprehensive review. Author links open overlay panel V. Kesavan a R. Kamalakannan a R. Sudhakarapandian b P. Sivakumar c. Show more.

### **Sequential Meta-Heuristic Approach for Solving Large-Scale ...**

In addition, some large-scale problems are employed to measure the effectiveness and efficiency of hybrid algorithms. Obtained

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results from these heuristics are compared with local search methods and with each other. The experimental results show that the hybrid meta-heuristics produce much better solutions to solve large-scale problems.

### **Application of Metaheuristics to Large-Scale ...**

The advent of large-scale assessment, but also the more frequent use of longitudinal and multivariate approaches to measurement in psychological, educational, and sociological research, caused an increased demand for psychometrically sound short scales. Shortening scales economizes on valuable administration time, but might result in inadequate measures because reducing an item set could: a ...

### **Online Decisioning Meta-Heuristic Framework for Large ...**

Sequential Meta-Heuristic Approach for Solving Large-Scale



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Ready-Mixed Concrete-Dispatching Problems ... (GA) has been selected for implementing the proposed idea and for evaluating the large-scale data-set model. The data set covers an active RMC for a period of 1 month. The comprehensive tests show that sequential GA is more robust than ...

### **Meta Heuristics For Large Scale**

Online Decisioning Meta-Heuristic Framework for Large Scale Black-Box Optimization Mingde Zhao, Student Member, IEEE, Hongwei Ge, Yi Lian, C.L. Philip Chen, Fellow, IEEE Abstract—Out of practical concerns and with the expectation to achieve high overall efficiency of the resource utilization, this paper transforms the large scale black-box

**Research on meta-heuristic methods for large-scale complex ...**

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aged when optimizing the routing decisions, even at the largest scale. With the recent interest in real time ride-sharing, several large scale online decision systems for taxi scheduling have been proposed and implemented, though these applications focus more on managing large-scale decision systems than optimizing vehicle actions.

### **Hyper-heuristic - Wikipedia**

To achieve generalized performance across Large Scale Blackbox Optimization (LSBO) tasks, it is possible to ensemble several heuristics and devise a meta-heuristic to control their initiation. This paper first proposes a methodology of transforming LSBO problems into online decision processes to maximize efficiency of resource utilization.

### **Sequential Meta-Heuristic Approach for Solving Large-Scale ...**

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Sequential Meta-Heuristic Approach for Solving Large-Scale Ready-Mixed Concrete-Dispatching Problems Mojtaba Maghrebi, M.ASCE<sup>1</sup>; S. Travis Waller, M.ASCE<sup>2</sup>; and Claude Sammut<sup>3</sup>  
Abstract: Finding a practical solution for the allocation of resources in ready-mixed concrete (RMC) is a challenging issue.

## **A decomposition approach based on meta-heuristics and**

...

A hyper-heuristic is a heuristic search method that seeks to automate, often by the incorporation of machine learning techniques, the process of selecting, combining, generating or adapting several simpler heuristics (or components of such heuristics) to efficiently solve computational search problems. One of the motivations for studying hyper-heuristics is to build systems which can handle ...

## **Investigating of Hybrid Meta-Heuristics to Solve the**

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## **Large ...**

Meta-heuristics are approximate methods that efficiently implement iterative mechanisms to explore a large part of the solution space aiming to find the global optimal solution or at least a local ...