

Accepted Manuscript

A New Efficient Approach for Solving the Capacitated Vehicle Routing Problem Using the Gravitational Emulation Local Search Algorithm

Ali Asghar Rahmani Hosseinabadi ,
Najmeh Sadat Hosseini Rostami , Maryam Kardgar ,
Seyedsaeid Mirkamali , Ajith Abraham

PII: S0307-904X(17)30138-5
DOI: [10.1016/j.apm.2017.02.042](https://doi.org/10.1016/j.apm.2017.02.042)
Reference: APM 11630

To appear in: *Applied Mathematical Modelling*

Received date: 27 May 2015
Revised date: 28 January 2017
Accepted date: 22 February 2017

Please cite this article as: Ali Asghar Rahmani Hosseinabadi , Najmeh Sadat Hosseini Rostami , Maryam Kardgar , Seyedsaeid Mirkamali , Ajith Abraham , A New Efficient Approach for Solving the Capacitated Vehicle Routing Problem Using the Gravitational Emulation Local Search Algorithm, *Applied Mathematical Modelling* (2017), doi: [10.1016/j.apm.2017.02.042](https://doi.org/10.1016/j.apm.2017.02.042)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Highlights

- Capacitated vehicle routing problem plays an important role in reducing the costs of transportation in distribution logistics.
- We solved this problem using the Gravitational Emulation Local Search Algorithm.
- Proposed algorithm is a comparative method to solve the problem and could obtain high quality solutions.
- The aim of this algorithm is to reduce the runtime and find the shortest path between customers.
- One advantages of the proposed algorithm over compared algorithms is reduced time for running.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5471116>

Download Persian Version:

<https://daneshyari.com/article/5471116>

[Daneshyari.com](https://daneshyari.com)