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models, algorithms, and applications.

Arc Routing | Society for Industrial and Applied Mathematics

The term "arc routing" refers to routing problems where the key service activity is to cover arcs of a transportation network. In contrast to

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node routing, where the key service activity occurs at the nodes (customer sites) and arcs are of interest only as elements of paths that connect the nodes, arc routing focuses on the traversal of edges.

Arc Routing: Problems, Methods, and

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Arc Routing is the process of selecting the best path in a network based on the route. Contrary to normal routing problems, which usually involve mapping a route between nodes, arc routing focuses more heavily on the



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route itself. The goal of many arc routing problems is to produce a route with the minimum amount of dead mileage, while also fully encompassing the edges required.

[PDF] Multiple center capacitated arc routing problems: A ...

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Location-routing is a branch of locational analysis that takes into account distribution aspects. The location-arc routing problem (LARP) considers scenarios where the demand is on the edges rather than being on the nodes of a network (usually a road network is assumed).

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Arc routing - SIAM

Undirected Capacitated Arc Routing  
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Operation After Disaster Andie

PRAMUDITA 1\*, Eiichi TANIGUCHI 2

and Ali G. QURESHI 3 1 Dept. of

Urban Management, Kyoto University

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2

Modeling and Optimization of Vehicle  
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Abstract In the capacitated arc routing problem with multiple centers (M-CARP) the objective is to find routes starting from the given depots or centers such that each required arc is served, capacity (and usually additional) constraints are satisfied and total travel cost is minimized. In

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this paper we consider a heuristic transformation of the M-CARP into a multiple center capacitated ...

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Arc routing (Corberán) Arc routing : problems, methods, and applications / edited by Ángel Corberán, University of Valencia, Burjassot, Valencia, Spain, Gilbert Laporte, HEC Montréal, Quebec, Montréal, Canada. pages cm. -- (MOS-SIAM series on optimization ; 20) Includes bibliographical references



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and index. ISBN 978-1-611973-66-2 1.

## Arc Routing Problems

The TVARP and the TVP are related to routing problems with hierarchies on the set of targets, where the order in which the demand must be satisfied is established in advance. One node

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routing example is the hierarchical traveling salesman problem (Panchamgam et al. 2013). Hierarchies have also been studied in the context of arc routing.

Chapter 5 Arc routing methods and applications - ScienceDirect

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The target visitation arc routing problem | SpringerLink

Scope and purpose The scope of this paper is transforming arc routing problems into node routing problems. The paper shows that this approach can be effective and, in particular, that

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the original instances may generate node routing instances that behave as if the size is not increased. ... Golden BL. Arc routing methods and applications. In ...

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profit maximization objectives; and  
important applications ...

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This chapter describes some of the  
most important models and algorithms  
for the classical vehicle routing



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problem and for several families of arc routing problems. Exact methods (mostly based on branch-and-cut) and heuristics (mostly based on tabu search) are described, and computational results are presented.

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The capacitated arc routing problem (CARP) has attracted much attention during the last few years due to its wide applications in real life. Since CARP is NP-hard and exact methods are only applicable to small instances, heuristic and metaheuristic methods

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are widely adopted when solving  
CARP.

Location-arc routing problem: Heuristic  
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Arc Routing book 19 Dec 2014 Edited  
by Ángel Corberán and Gilbert  
Laporte, the book Arc Routing:

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