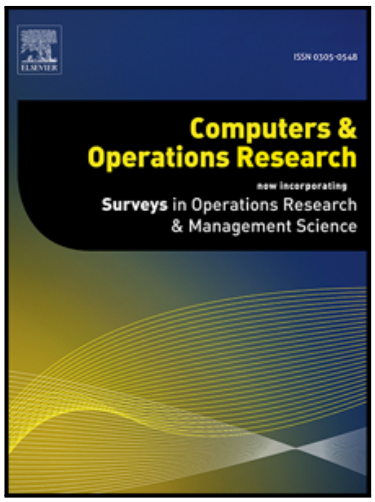
Accepted Manuscript



Branch-and-Price Approaches for the Network Design Problem with Relays

Barış Yıldız, Oya Ekin Karaşan, Hande Yaman

PII: S0305-0548(18)30004-2
DOI: 10.1016/j.cor.2018.01.004
Reference: CAOR 4387

To appear in: *Computers and Operations Research*

Received date: 7 August 2016
Revised date: 2 October 2017
Accepted date: 5 January 2018

Please cite this article as: Barış Yıldız, Oya Ekin Karaşan, Hande Yaman, Branch-and-Price Approaches for the Network Design Problem with Relays, *Computers and Operations Research* (2018), doi: 10.1016/j.cor.2018.01.004

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.

ACCEPTED MANUSCRIPT

Highlights

- We study the network design problem with relays (NDR) and discuss various transportation applications.
- We expose the relation between NDR and hub location problems.
- We further investigate the special case NDR-S (NDR with a single source for each demand) from the practical and theoretical point of views.
- We describe significant properties of optimal NDR and NDR-S solutions and use these properties to devise exact algorithms that can compete with the state of the art heuristics.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/6892695

Download Persian Version:

https://daneshyari.com/article/6892695

Daneshyari.com