

## Accepted Manuscript

Bidirectional Labeling in Column-Generation Algorithms for Pickup-and-Delivery Problems

Timo Gschwind, Stefan Irnich, Ann-Kathrin Rothenbächer, Christian Tilk

PII: S0377-2217(17)30878-0  
DOI: [10.1016/j.ejor.2017.09.035](https://doi.org/10.1016/j.ejor.2017.09.035)  
Reference: EOR 14713



To appear in: *European Journal of Operational Research*

Received date: 26 May 2017  
Revised date: 20 September 2017  
Accepted date: 22 September 2017

Please cite this article as: Timo Gschwind, Stefan Irnich, Ann-Kathrin Rothenbächer, Christian Tilk, Bidirectional Labeling in Column-Generation Algorithms for Pickup-and-Delivery Problems, *European Journal of Operational Research* (2017), doi: [10.1016/j.ejor.2017.09.035](https://doi.org/10.1016/j.ejor.2017.09.035)

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**

- Bidirectional labeling for vehicle routing with pickup-and-delivery structure
- Different cost matrices in forward and backward labeling
- Strong dominance rules in both directions is key innovation
- Computational analysis on pickup-and-delivery problem with time windows
- New branch-price-and-cut algorithm reduces computation time by 40% on average

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/6895163>

Download Persian Version:

<https://daneshyari.com/article/6895163>

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