Accepted Manuscript

Line planning with user-optimal route choice

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PII: S0377-2217(16)30868-2
DOI: 10.1016/j.ejor.2016.10.034
Reference: EOR 14057

To appear in: *European Journal of Operational Research*

Received date: 6 April 2016
Revised date: 17 October 2016
Accepted date: 18 October 2016

Please cite this article as: Marc Goerigk, Marie Schmidt, Line planning with user-optimal route choice, *European Journal of Operational Research* (2016), doi: 10.1016/j.ejor.2016.10.034

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Highlights

- We propose a new line planning model where passengers travel on their shortest routes.
- Both passenger travel times and operator costs are considered.
- We present two ways to linearize the resulting bilevel problem.
- Our solution algorithms scale up to real-world instance sizes.

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