

Accepted Manuscript

Exact algorithms for bi-objective ring tree problems with reliability measures

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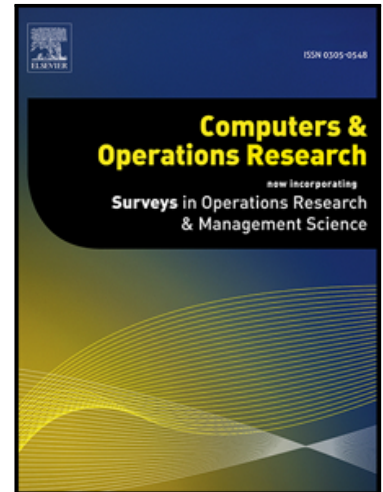
PII: S0305-0548(18)30035-2
DOI: [10.1016/j.cor.2018.02.004](https://doi.org/10.1016/j.cor.2018.02.004)
Reference: CAOR 4409

To appear in: *Computers and Operations Research*

Received date: 3 January 2017
Revised date: 7 February 2018
Accepted date: 7 February 2018

Please cite this article as: Alessandro Hill, Silvia Schwarze, Exact algorithms for bi-objective ring tree problems with reliability measures, *Computers and Operations Research* (2018), doi: [10.1016/j.cor.2018.02.004](https://doi.org/10.1016/j.cor.2018.02.004)

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Highlights

- Four novel reliability measures for ring tree network design are proposed as an alternative for cost minimization
- We develop a generic ϵ -constraint method to solve the four bi-objective problems which is enhanced by objective space heuristics
- The single-objective subproblems are solved to optimality with a branch and cut method based on multi-commodity flow formulations
- We provide a comprehensive computational study of our algorithm and illustrate Pareto front solutions

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