

# Accepted Manuscript

The Packing While Traveling Problem

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PII: S0377-2217(16)30787-1  
DOI: [10.1016/j.ejor.2016.09.035](https://doi.org/10.1016/j.ejor.2016.09.035)  
Reference: EOR 13996



To appear in: *European Journal of Operational Research*

Received date: 23 December 2015  
Revised date: 20 September 2016  
Accepted date: 20 September 2016

Please cite this article as: S. Polyakovskiy, F. Neumann, The Packing While Traveling Problem, *European Journal of Operational Research* (2016), doi: [10.1016/j.ejor.2016.09.035](https://doi.org/10.1016/j.ejor.2016.09.035)

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**Highlights**

- We introduce a new class of nonlinear knapsack problems.
- We show that the constrained and unconstrained versions of the problem are NP-hard.
- We provide lower and upper bounds adopting piecewise linear approximation.
- We use a linearization technique to solve the problem exactly.
- We propose a branch-infer-and-bound hybrid approach to solve the problem exactly.

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