## **Accepted Manuscript**

A relaxed projection method for solving multiobjective optimization problems

A.S. Brito, J.X.Cruz Neto, P.S.M. Santos, S.S. Souza

PII: \$0377-2217(16)30346-0 DOI: 10.1016/j.ejor.2016.05.026

Reference: EOR 13712

To appear in: European Journal of Operational Research

Received date: 2 April 2015 Revised date: 13 May 2016 Accepted date: 16 May 2016



Please cite this article as: A.S. Brito, J.X.Cruz Neto, P.S.M. Santos, S.S. Souza, A relaxed projection method for solving multiobjective optimization problems, *European Journal of Operational Research* (2016), doi: 10.1016/j.ejor.2016.05.026

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#### ACCEPTED MANUSCRIPT

### Highlights

- A nonsmooth method for multiobjective programming is proposed.
- A reflection technique avoids projections on the original constraint set.
- The convergence to a Pareto optimal point is proved under suitable assumptions.
- A preliminary numerical experience is reported.

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