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São Paulo, Brazil

July 22th, 2020

Professors Marco Lübbecke and Panos M. Pardalos
Editors-in-Chief
Operations Research Forum

Dear Professors Marco and Panos,

We would like to submit our paper entitled “Relax-and-fix heuristics applied to a real-world lot-sizing and scheduling problem in the personal care consumer goods industry” by K. A. G. Araujo, E. G. Birgin, M. S. Kawamura, and D. P. Ronconi for a possible publication in Operations Research Forum.

In this paper we describe the application of the relax-and-fix technique to a real-world problem that integrates lot sizing and scheduling in the personal care consumer goods industry. The results show that the technique worked very well, largely improving the solutions adopted by the company. In addition, we describe the instances in detail and make them available, so that all the results can be reproduced and the instances can be used in future work to test and compare new methods.

We confirm that this manuscript has not been published elsewhere and is not under consideration by another journal. All authors have approved the manuscript and agree with its submission.

We are confident this work fits Operations Research Forum’s aim and scope, and we believe that our findings would appeal to the readership of the journal. We hope that you will find the paper interesting and suitable for submission to Operations Research Forum.

Sincerely,

Prof. Ernesto G. Birgin
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