

Laurent Poirrier

Contact

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Research interests

- Mathematical optimization
- Computational linear algebra
- Computational combinatorial algorithms
- Operations research

Bio

- 2022 – Adjunct professor
Department of Computer Science, Bocconi University
- 2017 – 2020 Research assistant professor
Combinatorics and Optimization (Faculty of Mathematics), University of Waterloo
- 2013 – 2016 Postdoctoral fellow
Combinatorics and Optimization (Faculty of Mathematics), University of Waterloo
- 2012 – 2013 Postdoctoral fellow
Mathematics Department, Università degli Studi di Padova
- 2008 – 2012 PhD in Applied Sciences (advisor: Quentin Louveaux).
Montefiore Institute, University of Liège
- 2003 – 2008 Engineering Degree in Electronics
University of Liège

Publications

1. The Aggregation Closure is Polyhedral for Packing and Covering Integer Programs,
K. Pashkovich, L. Poirrier, H. Pulyassary. *Mathematical Programming A*, 195(1):1135-1147, 2022.
2. On the depth of cutting planes.
L. Poirrier, J. Yu. Submitted.
3. Multirow Intersection Cuts from the Infinity Norm,
Á. Xavier, R. Fukasawa, L. Poirrier. *INFORMS Journal on Computing*, 33(4):1624-1643, 2021
4. Three-dimensional Stable Matching with Cyclic Preferences.
K. Pashkovich, L. Poirrier. *Optimization Letters*, 14(8):2615-2623, 2020.
5. Split cuts from sparse disjunctions.
R. Fukasawa, L. Poirrier, S. Yang. *Mathematical Programming Computation*, 12(2):(295-335), 2020.
6. Permutations in the factorization of simplex bases.
R. Fukasawa, L. Poirrier. *INFORMS Journal on Computing*, 31(3):612-632, 2019.

7. The (not so) Trivial Lifting in Two Dimensions.
R. Fukasawa, L. Poirrier, Á. Xavier. *Mathematical Programming Computation*, 11(2):(211-235), 2019.
 8. Intersection cuts for single row corner relaxations.
R. Fukasawa, L. Poirrier, Á. Xavier. *Mathematical Programming Computation*. 10(3):423-455, 2018.
 9. Numerically safe bounds for the capacitated vehicle routing problem.
R. Fukasawa, L. Poirrier. *INFORMS Journal on Computing*. 29(3):544-557, 2017.
 10. The strength of multi-row models.
Q. Louveaux, L. Poirrier, D. Salvagnin, *Mathematical Programming Computation*. 7(2):113-148, 2015.
 11. An algorithm for the separation of two-row cuts.
Q. Louveaux, L. Poirrier, *Mathematical Programming*. 143(1-2):111-146, 2014.
 12. Gemvid, an open source, modular, automated activity recording system for rats using digital video.
J.E. Poirrier, L. Poirrier, P. Leprince, P. Maquet, *Journal of Circadian Rhythms* 4:10, 2006.
- PhD thesis: Multi-row approaches to cutting plane generation. L. Poirrier, 2012.