

## Publications

Marcia Fampa

### Book

1. M. Fampa, J. Lee, “Maximum-Entropy Sampling: Algorithms and Application,” Springer Series in Operations Research and Financial Engineering, Springer, New York City, 2022, XVII, 195 pp. <https://link.springer.com/book/9783031130779>
2. N. Maculan, M. Fampa, “Otimização Linear,” Editora UnB, Brasília, 2006, 310 pp.

### Publications in Journals

1. G. Ponte, M. Fampa, J. Lee, L. Xu, “On computing sparse generalized inverses,” Operations Research Letters 52, 2024.  
<https://doi.org/10.1016/j.orl.2023.107058>
2. M. Fampa, J. Lee, “An outer-approximation algorithm for maximum-entropy sampling,” Discrete Applied Mathematics 347, 271-284, 2024.  
<https://doi.org/10.1016/j.dam.2024.01.002>
3. Y. Li, M. Fampa, J. Lee, F. Qiu, W. Xie, R. Yao, “D-optimal Data Fusion: Exact and Approximation Algorithms,” INFORMS Journal on Computing, 2023.  
<https://doi.org/10.1287/ijoc.2022.0235>.
4. Z. Chen, M. Fampa, J. Lee, “On computing with some convex relaxations for the maximum-entropy sampling problem,” INFORMS Journal on Computing 35(2), 368–385, 2023.  
<https://doi.org/10.1287/ijoc.2022.1264>
5. Z. Chen, M. Fampa, J. Lee, “Masking Anstreicher’s linx Bound for Improved Entropy Bounds,” Operations Research, 2022.  
<https://doi.org/10.1287/opre.2022.2324>
6. M. Fampa, “Insight into the computation of Steiner minimal trees in Euclidean space of general dimension,” Discrete Applied Mathematics 308, 4-19, 2022.  
<https://doi.org/10.1016/j.dam.2019.03.015>
7. M. Fampa, J. Lee, G. Ponte, L. Xu, “Experimental analysis of local searches for sparse reflexive generalized inverses,” Journal of Global Optimization 81, 1057-1093, 2021.  
<https://doi.org/10.1007/s10898-021-01087-y>

8. L. Xu, M. Fampa, J. Lee, G. Ponte, "Approximate 1-norm minimization and minimum-rank structured sparsity for various generalized inverses via local search," *SIAM Journal on Optimization* 31(3), 1722-1747, 2021.  
<https://doi.org/10.1137/19M1281514>
9. R. S. Trindade, O. C. B. de Araújo, M. Fampa, "Arc-flow approach for single batch-processing machine scheduling," *Computers & Operations Research* 134, 2021.  
<https://doi.org/10.1016/j.cor.2021.105394>
10. Z. Chen, M. Fampa, A. Lambert, J. Lee, "Mixing convex-optimization bounds for maximum-entropy sampling," *Mathematical Programming, Series B*, 188, 539-568, 2021.  
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11. M. Fampa, J. Lee, G. Ponte. "Trading off 1-norm and sparsity against rank for linear models using mathematical optimization," *Open Journal of Mathematical Optimization*, 2(4), 14 p, 2021.  
<https://doi.org/10.5802/ojmo.6>
12. M. Fampa, J. Lee, "Convexification of bilinear forms through non-symmetric lifting," *Journal of Global Optimization* 80, 287-305, 2021.  
<https://doi.org/10.1007/s10898-020-00975-z>
13. C. Buchheim, M. Fampa, O. Sarmiento, "Lower Bounds for Cubic Optimization over the Sphere," *Journal of Optimization Theory and Applications* 188(3), 823-846, 2021.  
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14. W. Melo, M. Fampa, F. Raupp, "Two linear approximation algorithms for convex mixed integer nonlinear programming," *Annals of Operations Research*, 2020.  
<https://doi.org/10.1007/s10479-020-03722-5>
15. C. D'Ambrosio, M. Fampa, J. Lee, S. Vigerske, "On a nonconvex MINLP formulation of the Euclidean Steiner tree problem in n-space: missing proofs," *Optimization Letters* 14(2), 409-415, 2020.  
<https://doi.org/10.1007/s11590-018-1295-1>
16. M. Fampa, D. Lubke, F. Wang, H. Wolkowicz, "Parametric Convex Quadratic Relaxation of the Quadratic Knapsack Problem," *European Journal of Operational Research* 281, 36-49, 2019.  
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19. W. Melo, M. Fampa, F. Raupp, “An overview of MINLP algorithms and their implementation in Muriqui Optimizer,” *Annals of Operations Research* 286, 217-241, 2018.  
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25. H. Kramer, E. Uchoa, M. Fampa, V. Kohler, F. Vanderbeck, “Column generation approaches for the software clustering problem,” *Computational Optimization and Applications* 64, 843-864, 2016.  
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28. W. Melo, M. Fampa, F. Raupp, “Integrating nonlinear branch-and-bound and outer approximation for convex Mixed Integer Nonlinear Programming,” *Journal of Global Optimization* 60, 373-389, 2014.  
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31. F. S. Thomé, S. Binato, M. V. F. Pereira, N. Campodónico; M. Fampa, L. C. da Costa Jr., "Decomposition approach for generation and transmission expansion planning with implicit multipliers evaluation," *Pesquisa Operacional* 33, 343-359, 2013.  
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38. P. R. Lopes, M. Fampa, S. Binato, "Planejamento de Anéis Unidirecionais em Telecomunicações: uma Aplicação do Método GRASP. TEMA. Tendências em Matemática Aplicada e Computacional, v.5(2), p.227 - 237, 2004.  
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### **Publications in Proceedings and Books**

47. M. Fampa, J. Lee, G. Ponte, "Convex relaxation for the generalized maximum-entropy sampling problem," To appear in Dagstuhl's Leibniz International Proceedings in Informatics (LIPIcs), SEA 2024 Proceedings.
48. C. D'Ambrosio, M. Fampa, J. Lee, F. Sinnecker, "On a geometric graph-covering problem related to optimal safety-landing-site location," To appear in *Lecture Notes in Computer Science*, Springer.

49. M. Fampa, J. Lee, G. Ponte, “Branch-and-bound for D-Optimality with fast local search and variable-bound tightening,” Oberwolfach Reports 35/2023, pp. 19-21. Proceedings of the workshop on Mixed-integer Nonlinear Optimization: a hatchery for modern mathematics, Mathematisches Forschungsinstitut, Oberwolfach, Germany, 2023.  
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50. Z. Chen, M. Fampa, J. Lee, “Generalized scaling for the constrained maximum-entropy sampling problem,” Proceedings of ACDA 2023, 110–118. <https://doi.org/10.1137/1.9781611977714.10>
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55. L. Xu, M. Fampa, J. Lee, “1-norm minimization and minimum-rank structured sparsity for symmetric and ah-symmetric generalized inverses: rank one and two,” To appear in: Fields Institute Communications Series volume on Data Science and Optimization (Deza, Gupta, Pokutta, eds.).
56. M. Fampa, J. Lee, “An outer-approximation algorithm for maximum-entropy sampling,” In: I. Ljubić, F. Barahona, S. S. Dey, A. Ridha Mahjoub (eds) Combinatorial Optimization. ISCO 2022. Lecture Notes in Computer Science, vol. 13526, pp 130-142. Springer, Cham, 2022. [https://doi.org/10.1007/978-3-031-18530-4\\_10](https://doi.org/10.1007/978-3-031-18530-4_10).
57. J. Costa, M. Fampa, F. Raupp, W. Melo, “Modeling demand-price dependence in lot-sizing optimization,” In: Proceedings of the Joint ALIO/EURO International Conference 2021-2022 on Applied Combinatorial Optimization, Viña del Mar, Chile. OpenProceedings.org, ISBN: 978-3-89318-089-9, Electronic Edition. [http://openproceedings.org/2022/conf/alioeuro/ALIOEURO\\_2021\\_paper\\_37.pdf](http://openproceedings.org/2022/conf/alioeuro/ALIOEURO_2021_paper_37.pdf)

58. G. Ponte, M. Fampa, J. Lee, “Análise experimental de buscas locais para a construção de inversas reflexivas generalizadas esparsas,” Proceedings of SBPO 2020 - Brazilian Symposium of Operations Research, João Pessoa, Brazil, 2020 (best undergraduate student paper award).
59. R. S. Trindade, O. C. B. de Araújo, M. Fampa, “Arc-Flow Approach for Parallel Batch Processing Machine Scheduling with Non-identical Job Sizes,” In: M. Baiou; B. Gendron; O. Günlük; A. Ridha Mahjoub (eds) Combinatorial Optimization. ISCO 2020. Lecture Notes in Computer Science, vol. 12176, pp. 179-190. Springer, Cham, 2020. [https://doi.org/10.1007/978-3-030-53262-8\\_15](https://doi.org/10.1007/978-3-030-53262-8_15).
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78. K. M. Anstreicher, M. Fampa, J. Lee, J. Williams. “Continuous relaxations for constrained maximum-entropy sampling,” In: Cunningham W.H., McCormick S.T., Queyranne M. (eds) Integer Programming and Combinatorial Optimization. IPCO 1996. Lecture Notes in Computer Science, vol. 1084, pp. 234-248, Springer, Berlin, Heidelberg, 1996.

## Unpublished Papers

79. M. Fampa, J. Lee, G. Ponte, “Convex relaxation for the generalized maximum-entropy sampling problem,” (Extension of SEA 2024 paper).  
<https://doi.org/10.48550/arXiv.2404.01390>
80. Z. Chen, M. Fampa, J. Lee, “Generalized scaling for the constrained maximum-entropy sampling problem” (Extension of ACDA 2023 paper).  
<https://arxiv.org/abs/2306.14661>.
81. G. Ponte, M. Fampa, J. Lee, “Computing D-Optimal solutions for huge-scale linear and quadratic response-surface models.”  
<https://arxiv.org/abs/2309.04009>.
82. G. Ponte, M. Fampa, J. Lee, “Branch-and-bound for integer D-Optimality with fast local search and variable-bound tightening.” (Extension of SBPO-2022 paper).  
<https://arxiv.org/abs/2309.00117>.
83. F. Thomé, M. Pereira, S. Granville, M. Fampa, “Non-convexities representation on hydrothermal operation planning using SDDP.”  
[https://www.researchgate.net/publication/283091434\\_Non-Convexities\\_Representation\\_on\\_Hydrothermal\\_Operation\\_Planning\\_using\\_SDDP](https://www.researchgate.net/publication/283091434_Non-Convexities_Representation_on_Hydrothermal_Operation_Planning_using_SDDP).