

PUBLICATIONS

Articles in Refereed Journals

Published

1. **N. Shaked-Monderer** (1989). An absolutely extremal flow with a non-absolutely extremal factor. *Proceedings of the American Mathematical Society* **105**, 215-220. [link](#)
2. **N. Shaked-Monderer** and A. Berman (1992). More on extremal positive semidefinite doubly stochastic matrices. *Linear Algebra and its Applications* **167**, 17-34. [link](#)
3. **N. Shaked-Monderer** (1993). Extreme chordal doubly nonnegative matrices with given row sums. *Linear Algebra and its Applications* **183**, 23-39. [link](#)
4. **N. Shaked-Monderer** (1994). Extremal positive semidefinite matrices with given sparsity pattern. *Linear and Multilinear Algebra* **36**, 287-292. [link](#)
5. A. Berman and **N. Shaked-Monderer** (1998). Remarks on completely positive matrices. *Linear and Multilinear Algebra* **44**, 149-163. [link](#)
6. **N. Shaked-Monderer** (2001). Minimal CP Rank, *Electronic Journal of Linear Algebra* **8**, 140-157. [link](#)
7. **N. Shaked-Monderer** (2004/2005). A note on the CP-rank of matrices generated by Soules matrices, *Electronic Journal of Linear Algebra* **12**, 2-5. [link](#)
8. R. A. Horn, V. V. Sergeichuk and **N. Shaked-Monderer** (2005). Solution of linear matrix equations in a *Congruence class, *Electronic Journal of Linear Algebra* **13**, 153-156. [link](#)
9. M.Q. Chen, M. Neumann and **N. Shaked-Monderer** (2007), Double Soules Pairs and Matching Soules Bases, *Linear Algebra and its Applications*, **421**, Issues 2-3, 315-327. [link](#)
10. M.Q. Chen, M. Neumann and **N. Shaked-Monderer** (2007), Basic Soules Matrices and Their Applications, *Linear Algebra and its Applications*, **429**, Issues 5-6, 951-971. [link](#)
11. **N. Shaked-Monderer** (2009). A note on upper bounds on the cp-rank, *Linear Algebra and its Applications* **431**, 2407-2413. [link](#)
12. **N. Shaked-Monderer** (2013). Matrices attaining the minimum semidefinite rank of a chordal graph, *Linear Algebra and its Applications*, **438**, pp. 3804-3816. [link](#)
13. **N. Shaked-Monderer**, I. M. Bomze, F. Jarre and W. Schachinger (2013), On the cp-rank and the minimal cp factorization. *SIAM Journal on Matrix Analysis and Applications*, **34(2)**, pp. 355-368. [link](#)

14. **N. Shaked-Monderer**, A. Berman, I. M. Bomze, F. Jarre and W. Schachinger (2014), New results on the cp-rank and related properties of co(mpletely)positive matrices, *Linear and Multilinear Algebra* **63**, 384-396. [link](#)
15. B. Shader, **N. Shaked-Monderer** and D. Szyld (2014), Nearly positive matrices. *Linear Algebra and its Applications*. **449**, pp. 520-544. [link](#)
16. F. Goldberg and **N. Shaked-Monderer** (2014), On the maximal angle between copositive matrices, *Electronic Journal of Linear Algebra* **27**, pp. 837-850. [link](#)
17. M. Rajesh Kannan, **N. Shaked-Monderer**, A. Berman (2015), Some properties of strong H-tensors and regular H-tensors, *Linear Algebra and its Applications* **476**, pp. 42-55. [link](#)
18. **N. Shaked-Monderer** (2015), Bounding the CP-rank by graph parameters, *Electronic Journal of Linear Algebra* **28**, pp. 99-116. [link](#)
19. A. Berman, M. Dür and **N. Shaked-Monderer** (2015), Open problems in the theory of completely positive and copositive matrices, *Electronic Journal of Linear Algebra* **29**, pp. 46-58. [link](#)
20. **N. Shaked-Monderer**, A. Berman, M. Dür, M. Rajesh Kannan (2016), SPN completable graphs, *Linear Algebra and its Applications* **498**, pp. 58-73. [link](#)
21. A. Berman, M. Dür, **N. Shaked-Monderer** and J. Witzel (2016), Cutting planes for semidefinite relaxations based on triangle-free graphs, *Optimization Letters* **10 (3)**, pp. 433-446. [link](#)
22. M. Rajesh Kannan, **N. Shaked-Monderer** and A. Berman (2016), On weakly irreducible nonnegative tensors and interval hull of some classes of tensors, *Linear and Multilinear Algebra* **64(4)**, pp. 667-679. [link](#)
23. **N. Shaked-Monderer** (2016), SPN graphs: when copositive=SPN, *Linear Algebra and its Applications* **509**, pp. 82-113. [link](#)
24. **N. Shaked-Monderer** (2017), The DJL conjecture for order 6, *Operators and Matrices* **11(1)**, pp. 71-88. [link](#)
25. A. Berman, **N. Shaked-Monderer** (2018), Completely Positive Matrices: Real, Rational and Integral, *Acta Mathematica Vietnamica* **43**, pp. 623-639. [link](#)
26. **N. Shaked-Monderer** (2018), Corrigendum to “SPN graphs: When copositive = SPN” [Linear Algebra Appl. 509 (2016) 82–113], *Linear Algebra and its Applications* **541**, pp. 285-286. [link](#)

27. **N. Shaked-Monderer**, M. Dür, A. Berman (2018), Complete positivity over the rationals. *Pure and Applied Functional Analysis* **3**, pp. 681-691. [link](#)
28. A. Berman, **N. Shaked-Monderer**, R. Singh, X.-D. Zhang (2019), Complete multipartite graphs that are determined, up to switching, by their Seidel spectrum, *Linear Algebra and its Applications* **564**, pp. 58-71. [link](#)
29. L. Hogben, **N. Shaked-Monderer** (2019), SPN graphs, *Electronic Journal of Linear Algebra* **35**, pp. 376-386. [link](#)
30. A. Berman, **N. Shaked-Monderer**, S.K. Panda (2020), Strongly self-inverse weighted graphs, *Electronic Journal of Linear Algebra* **36**, pp. 80-89. [link](#)
31. **N. Shaked-Monderer** (2020), On the generalized inverse of a copositive matrix. *Linear and Multilinear Algebra* **68**, pp. 1384-1394. [link](#)
32. A. Berman, **N. Shaked-Monderer** (2022), Triangle-free graphs and completely positive matrices, *Central European Journal of Operations Research* **30**, pp. 1093-1099. [link](#)
33. R. Singh, C. Zheng. **N. Shaked-Monderer**, A. Berman (2020), Nonsingular (vertex-weighted) block graph, *Linear Algebra and its Applications* **602**, pp. 138-156. [link](#)
34. **N. Shaked-Monderer** (2022), On the number of CP factorizations, *Linear and Multilinear Algebra* **70**, pp. 3887-3904. [link](#)
35. R. Singh, **N. Shaked-Monderer**, A. Berman (2022), A linear time algorithm to check the nullity of block graphs, *Discrete Applied Mathematics* **319**, pp. 61-70. [link](#)
36. **N. Shaked-Monderer** (2022), Preservers of the cp-rank, *Linear and Multilinear Algebra* **70**, pp. 6211-6222. [link](#)
37. **N. Shaked-Monderer**, Sign patterns of inverse doubly nonnegative matrices and inverse completely positive matrices, *Linear Algebra and its Applications* **659**, pp. 10-23. [link](#)
38. **N. Shaked-Monderer** (2025), CP graphs and SPN graphs, *Communications in Optimization Theory* **2025.3**, pp. 1-10. [link](#).

Accepted for Publication

39. A. Berman and **N. Shaked-Monderer**, Completely positive matrices over sets, *Communications in Optimization Theory*, to appe

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1. R. Singh, **N. Shaked-Monderer**, and A. Berman (2019), Linear time algorithm to check the singularity of block graphs, in S. P. Pal and A. Vijayakumar (eds.), *Algorithms and Discrete Applied Mathematics* (Springer International Publishing, Cham), pp. 77–90. [link](#)

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Published

1. A. Berman, **N. Shaked-Monderer**, Nonnegative Matrices and Digraphs, in: R.A. Meyer (Ed.), Encyclopedia of Complexity and Systems Science, (2009) Springer. [link](#)