

Michele Benzi's publications (updated July 2026)

Books:

- [1] M. Benzi, D. A. Bini, D. Kressner, H. Z. Munthe-Kaas, C. Van Loan, “Exploiting Hidden Structure in Matrix Computations: Algorithms and Applications (Cetraro, Italy 2015)”, Lecture Notes in Mathematics vol. 2173, Springer and Fondazione CIME, New York, 2016, ISBN 978-3-319-49887-4 (ix + 406 pp.).

Research Papers:

- [1] M. Benzi, “Un Algoritmo Iterativo Parallelo per la Soluzione di Sistemi Lineari (A Parallel Iterative Algorithm for the Solution of Linear Systems),” *Atti Accad. Sc. Ist. Bologna*, XIV, 6 (1991), 35–41.
- [2] M. Benzi, “Solution of Equality-Constrained Quadratic Programming Problems by a Projection Iterative Method,” *Rend. Mat. Applic.*, VII, 13 (1993), 275–296.
- [3] M. Benzi and C. D. Meyer, “An Explicit Preconditioner for the Conjugate Gradient Method,” in J. D. Brown et al. (Eds.), *Proceedings of the Cornelius Lanczos International Centenary Conference*, SIAM, Philadelphia (1994), 294–296.
- [4] M. Benzi, F. Sgallari and G. Spaletta, “A Parallel Block Projection Method of the Cimmino Type for Finite Markov Chains,” in W. J. Stewart (Ed.), *Computations with Markov Chains: Proceedings of the Second International Workshop on the Numerical Solution of Markov Chains*, Kluwer Academic Publishers, Boston (1995), 65–80.
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- [6] M. Benzi and C. D. Meyer, “A Direct Projection Method for Sparse Linear Systems,” *SIAM Journal on Scientific Computing*, 16, 5 (1995), 1159–1176.
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- [9] M. Benzi and M. Tũma, “Preconditioning with Sparse Approximate Inverses,” in I. Marek (Ed.), *Proceedings of the XI Summer School on Software and Algorithms of Numerical Mathematics*, Železná Ruda, Czech Republic (1996), 5–16.
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- [11] M. Benzi and M. Tũma, "Approximate Inverse Preconditioning for the Conjugate Gradient Method on a Vector Computer," in K. Segeth (Ed.), *Proceedings of the Prague Mathematical Conference '96*, (1996), 29–34.
- [12] M. Benzi and D. B. Szyld, "Existence and Uniqueness of Splittings for Stationary Iterative Methods with Applications to Alternating Methods," *Numerische Mathematik*, 76, 3 (1997), 309–321.
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Translations:

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