Nathanson, Melvyn B.
Matrix scaling limits in finitely many iterations. (English) Zbl 1443.15024

Summary: The alternate row and column scaling algorithm applied to a positive $n \times n$ matrix $A$ converges to a doubly stochastic matrix $S(A)$, sometimes called the Sinkhorn limit of $A$. For every positive integer $n$, a two parameter family of row but not column stochastic $n \times n$ positive matrices is constructed that become doubly stochastic after exactly one column scaling.

For the entire collection see [Zbl 1431.11004].

MSC:
15B51 Stochastic matrices
11C20 Matrices, determinants in number theory

Keywords:
matrix scaling; Sinkhorn limits; doubly stochastic matrices

Full Text: DOI arXiv

References:

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