

# عنوان مقاله:

An algorithm for constructing integral row stochastic matrices

# محل انتشار:

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## نویسنده:

Asma Ilkhanizadeh manesh - Department of Mathematics Vali-e-Asr University of Rafsanjan P.O. Box: YYIP9PSFIY, Rafsanjan, Iran

### خلاصه مقاله:

Let \textbf{M}\_{n} be the set of all n-by-n real matrices, and let \mathbb{R}^{n} be the set of all n-by-n real (column) vectors. An n-by-n matrix R=[r\_{ij}] with nonnegative entries is called row stochastic, if \sum\_{k=1}^{n} r\_{ik} is equal to 1 for all i, (1\leq i \leq n). In fact, Re=e, where  $e=(1, \ldots, 1)^t \in \mathbb{R}^n$ . A matrix  $R \in \mathbb{R}^n$  is called integral row stochastic, if each row has exactly one nonzero entry, +1, and other entries are zero. In the present paper, we provide an algorithm for constructing integral row stochastic matrices, and also we show the relationship between .this algorithm and majorization theory

**کلمات کلیدی:** Eigenvalue, Majorization, Integral row stochastic

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