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Theory of Stochastic Processes  
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## P-majorizing quadratic stochastic operators (Article)

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### Abstract

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In this paper, we introduce a new class of the so-called p-majorizing quadratic stochastic operators which is the generalization of the class of quadratic doubly stochastic operators. We provide a criterion for the regularity of p-majorizing quadratic stochastic operators acting on 2D simplex. Some relevant examples are also provided.

### Author keywords

Cubic stochastic matrix P-majorization Quadratic stochastic operator

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