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## On classification of the genetic and evolution Rock-Paper-Scissor algebras

(Conference Paper)

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### Abstract

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We consider genetic and evolution algebras generated by non-ergodic Volterra operator. It is known that a zero-sum game generated by Volterra operator be a RPS game if and only if the operator is a non-ergodic transformation. We will call the genetic ( evolution ) algebra generated by non-ergodic Volterra operator RPS genetic (respectively RPS evolution ) algebra . In this paper, we investigate the problem of isomorphism of two RPS genetic (evolutionary) algebras and establish necessary and sufficient conditions when two such algebras will be isomorphic. © 2019 Author(s).

### SciVal Topic Prominence ⓘ

Topic: Algebra | Quadratic | Cubic stochastic

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