



سخنرانی علمی

A Note on Parrondo's Paradox

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In this talk we briefly introduce the Parrondo's paradox. A discrete time Markov chain is applied to show how the combination of two losing games can result in a winning one.

The history of the paradox dates back to the time that Spanish scientist, Parrondo, modeled the flashing Brownian ratchet as a Markov process. It has been applied to several fields such as economics, physical quantum systems, and population genetics.

We present a generalization of the paradox. Using simulation, some properties of the generalized paradox are examined.

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