

عنوان مقاله:

(A Pseudo Random Number Generator Based on Chaotic Henon Map (CHCG

محل انتشار:

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خلاصه مقاله:

In the present paper, the properties of making a deterministic algorithm for generating a pseudo random sequence of numbers for application in cryptography, are discussed. The Chaotic Henon Congruential Generator is proposed as a pseudo random number generator. It is shown that what chaotic features of the Henon Map are useful for generating pseudo random numbers in cryptographic point of view. To evaluate the randomness as well as independence of the number sequences, generated by the PRNGs, two well-known statistic tests were performed and the results approved that the generated sequences are statistically proper in cryptographic applications

کلمات کلیدی:

Chaotic function, Pseudo random numbers sequence, Henon Map, Linear Congruential Generator, Correlation Test, Chi-square Goodness-of-fit Test

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