Abstract

Random number generators (RNGs) is an underlying technology to accomplish highly secure systems. Therefore, for any security or simulation, systems should be associated with RNGs. Many of RNGs are currently in use, but the main defects in the available RNGs are the short period of its repeat cycle length and the predefined values of static factors as well. In this paper, we will try to suggest a method to extend the periodic cycle of the repetition and to use dynamic factors instead of static factors based on the seed values for the sake of security enhancement.
Dynamic Random Number Generator based on User Seed(s)


Index Terms

Computer Science
Information Science

Keywords

Seed Period Static Factors Dynamic Factors RNGs Security Simulation LCM Linear Congruential Uniformity Independence.