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Random Number Generators: Theory and Applications

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Message from the Guest Editors

Whether truly random or pseudo random, the generators of random numbers have many daily applications in simulations, digital analysis, cryptography, and decision support. They can be studied according to different criteria: Are they cryptographically safe? What is their period? What is the complexity of Kolmogorov? How many bits are generated per unit of time? Which area would be taken by their physical implementation on a logic circuit such as an FPGA? How do they behave in the most stringent statistical tests such as TESTU01?

This Special Issue is expected to be published in 2019. It is aimed at providing state-of-the-art publications of refereed, high-quality, original research papers in all fields of Random Number Generation and its applications including (without being limited to) the following:

- pseudorandom number generator algorithms;
- true random number generator methods;
- analysis (theoretical or practical evaluation) of random number generators;
- the physical implementation of random number generators;
- use cases of pseudorandom number generators in applications.

SpecialIssue