Abstract

In the recent years, a lot of research has been done in the field of covert chaotic communication involving many known chaotic maps and the results have been very promising. In this paper the generation of binary sequence using modified chaotic sine map is discussed. The auto correlation and the cross correlation properties of the generated sequence is observed. Also, the BER of chaotic shift keying system is analyzed to check the feasibility of the generated sequence in communication purpose. The possibilities of using the generated binary sequences in radar pulse compression techniques is also explored and Peak Side lobe Ratio (PSLR) obtained is compared with other existing binary sequences.

References

1684-1691.
Index Terms

Computer Science
Communication

Keywords

CSK  Chaotic sin map  PSLR  BER