Abstract

Cryptography is dealing with a lot of different algorithms which are much secure in various aspects but there are two major problems coming in the cryptographic algorithms, first the portability of algorithm from heavy applications to light applications and second the current Method of Formal Coding-Side Channel Attack (MFCSCA) which are targeting XOR function of the algorithms. To resolve these two problems we propose a new algorithm by using AES algorithm with lattice concept of multidimensionality. In this paper, we propose a new algorithm by combining the concepts of mathematics and multidimensionality concept of physics which solve both the problems of the encryption algorithms.

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**Index Terms**

Computer Science

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**Keywords**

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Kirchhoff’s principle

MFCSCA