

New Hybrid AES static S-Box algorithm using chaotic maps

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Methods of security need to be improved to face new techniques of data stealing. The substitution table is the essence of the block ciphers encryption. A good design of S-Box increase the encryption algorithm security. This paper proposes two algorithms to generate modified S-Boxes; the key and plaintext depend S-Box using RC4 algorithm. And the key and plaintext depend S-Box using RC4 chaotic algorithm. This paper aims to expound the efficiency of the proposed S-Boxes compared to the existing AES and Dynamic S-Boxes.