



RESEARCH ARTICLE

Adapted Encryption Algorithm with Multiple Skew Tent Map

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Abstract— In recent years, the chaos based cryptographic algorithms have some optional and efficient ways to develop secure encryption techniques. In this paper, we proposed a modified approach for encryption based on chaotic skew tent maps in order to meet the requirements of the secure transfer. In the projected encryption scheme, an external secret key of 128-bit and two chaotic skew tent maps are employed. The initial conditions for the both skew tent maps are derived using the external secret key. The results of several experimental, statistical analysis and key sensitivity tests show that the proposed encryption scheme provides an efficient and secure way for encryption and transmission.

Full Text: <http://www.ijcsmc.com/docs/papers/April2013/V2I4201388.pdf>