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An Optimal Method in Image Encryption.

Image encryption has been a subject of current research activity because of the necessity to transfer data in a secured manner. There has been considerable effort to use hyper chaotic system in image encryption. Transform techniques like Fourier transform and wavelet transforms have been used efficiently for the same purpose with competing algorithms. We present a method of image encryption with large key space generated randomly with the use of generalized heat equation obtained by the use of fractional Fourier transform. We show that the method is robust and the NPCR and UACI are satisfactory. (Received July 18, 2017)