

Title: Key Based Random Permutation (KBRP)

Author: Shakir M. Hussain and Naim M. Ajlouni

Source: Journal of Computer Science 2(5): 419-421 , 2006

Abstract: This study introduces a method for generating a particular permutation  $P$  of a given size  $n$  out of  $N!$  permutations from a given key. This method computes a unique permutation for a given key and size since it takes the same key; therefore, the same permutation can be computed for any key and size if the same key and size are applied. The name of random permutation comes from the fact that the probability of getting this permutation is 1 out of  $N!$  possible permutations. Besides, this permutation can not be guessed because of its generating method that is depending on a given key and size.