

Nathan Hamlin, Bala Krishnamoorthy, and William Webb
A Knapsack-Like Code Using Recurrence Sequence Representations,
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Abstract

We had recently shown that every positive integer can be represented uniquely using a recurrence sequence, when certain restrictions on the digit strings are satisfied. We present the details of how such representations can be used to build a knapsack-like public key cryptosystem. We also present new disguising methods, and provide arguments for the security of the code against known methods of attack.