Review of: "WaveBit — Nonbinary Computation: I Symmetric Cryptography"

Gang Wu[1]

1 University of Electronic Science and Technology of China

Potential competing interests: No potential competing interests to declare.

The author presents an encryption method called wavebit in this article, and demonstrates the method of generating FSK signal waveforms with 7 bits through examples. This article provides a clear description of the basic process of encryption and decryption, and the methods can be repeatedly verified.

However, from the perspective of evaluating encryption methods, this article still lacks analysis of encryption anti cracking, such as the randomness analysis of the generated encryption waveforms. Secondly, this article does not discuss the impact of interference and noise that may be encountered in encrypted waveform transmission channels on decryption. Thirdly, most importantly, this article does not discuss the probability of decryption when plaintext is obtained by eavesdroppers under the Wiretap channel model.

In summary, the work of this article is interesting but still in the preliminary research stage. It is recommended that the author add a more complete theoretical analysis of encryption and anti eavesdropping. Finally, how to use the method proposed in this article? Is it based on symmetric keys or public key systems, which is not mentioned in this article.