

RSA Algorithm

Algorithm Analysis

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Abstract—The abstract goes here.

1. Introduction

RSA algorithm, first published on 1977 by Ron Rivest, Adi Shamir, and Len Adleman, is a public-key cryptosystem, in this days, often used in various web servers, browsers and commercial system to protect web traffic among some other things like email encryption In this type of cryptosystem the encryption key and the decryption key are different also, the encryption is public while de decryption key is private. This cryptosystem is base on the difficulty of factoring to prime large numbers.

2. The Algorithm

Taking the words of Weisstein, E RSA encryption defines as "A public-key algorithm which uses prime factorization as the trapdoor one-way function",

2.1. Actual panorama

With the breakthrough in quantum computers is known that Shor's algorithm broke a 768-bit key (usually key sizes variate from 1024 to 4096 bits), this give us an idea of how quantum computers may change our way of thinking

3. Methodology

Bla bla bla

4. Experiments

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5. Analysis and Results

The analysis goes here

6. Conclusion

The conclusion goes here.

References

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