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ICORIS-2022 Submission 253


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Submission 253

Title	Optimization of Student Database Confidentiality Using Elgamal Algorithm and Fermat Method
Paper:	 (Aug 09, 07:06 GMT) (previous versions)
Author keywords	student database Elgamal algorithm Fermat method
Abstract	<p>Every Islamic boarding school institution must have many databases, one of which is the student database. Securing the student database is needed to protect student data and information from database theft. To create an optimal system in securing the student database with the aim of avoiding accessing and processing data and information by unauthorized persons, the student database processed in this study used the ElGamal algorithm and the Fermat method with key formation using prime numbers and solving the problem requires discrete logarithm calculations. The keys used by this algorithm are the public key and the private key. The result of testing this method is that the student database is encrypted. The algorithm used to generate these prime numbers is to use Fermat. The ElGamal algorithm is very helpful in securing the student database at the Darul Hikmah Islamic Boarding School TPI Medan. In testing the encryption of the student database file with the file name "santri.mdf" it was successfully converted into a file with the new name "santri_mdf.encrypt", and in the decryption process it could return to plaintext with the name "santri.mdf".</p>

Submitted Aug 08, 02:46 GMT

Last update Aug 09, 07:05 GMT

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Reviews

Review 1

1: (weak accept)

Overall evaluation

This research uses the ElGamal algorithm and the Fermat method with key generation using prime numbers and discrete logarithm calculations. The algorithm used by this algorithm is the public key and the private key. However, there has been no explanation of the implications of the results for previous similar studies reviewed, to highlight the contribution of the proposed method.

Review 2

2: (accept)

The paper accepted:

Overall evaluation

1. The paper contributes to the body of knowledge
2. The paper is not too technically sound. It has just combined a very basic manual calculation to encrypt and decrypt database files.
3. The subject matter was presented in a comprehensive manner.
4. Fig. 1. need to be changed with a better-quality image.

Review 3

0: (borderline paper)

Checking Template:

Overall evaluation

1. for given Name Surname dept. organization name (Aff.) organization name (Aff.) City, Country , email address or ORCID. check the format use left and right alignment.
2. For writing keywords at Max 5 words.
- 3 check the format in tables make it and format
4. Fix all references, at least 20 citations, in 2018 and above
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