

A
Cryptographic
& Steganographic
system using
Magic
Rectangle &
Genetic
Algorithm

Monali Pawa Minal Chaudhari Ankita Wani Dhiraj Mahajan

Introduction

Proposed system

Methodology

Advantage

Conclusio

References

A Cryptographic & Steganographic system using Magic Rectangle & Genetic Algorithm

Monali Pawar Minal Chaudhari Ankita Wani Dhiraj Mahajan under guidance of Mr.Ashish T. Bhole

SSBT's College of Engineering & Technology, Bambhori, Jalgaon - 425 001, Maharashtra, India

September 28, 2016





Outline

A
Cryptographic
& Steganographic
system using
Magic
Rectangle &
Genetic
Algorithm

Monali Pawa Minal Chaudhari Ankita Wani Dhiraj Mahajan

Introduction

Proposed system

Methodolog

Camaluaia

Conclusion

Referenc

- 1 Introduction
- 2 Proposed system
- 3 Methodology
- 4 Advantages
- 5 Conclusion
- 6 References



Introduction

A
Cryptographic
& Steganographic
system using
Magic
Rectangle &
Genetic
Algorithm

Monali Pawar Minal Chaudhari Ankita Wani

Ankita Wan Dhiraj Mahajan

Introduction

Proposed system

Methodolo

Advantage

Conclusio

References

- Existing System.
 - Limitations of Past Cryptographic System.
- Proposed System



A Cryptographic & Steganographic system using Magic Rectangle & Genetic Algorithm

Cryptographic & Steganographic system using Magic Rectangle & Genetic Algorithm

Monali Pawa Minal

Ankita Wan Dhiraj

Dhiraj Mahajan

Introduction

Proposed system

Methodolo

Advantage

Conclusio

References

- It consists of 3 algorithms:
 - Magic Rectangle Algorithm
 - Genetic Algorithm
 - Fisher-Yates Shuffle Algorithm



Architecture

A
Cryptographic
& Steganographic
system using
Magic
Rectangle &
Genetic
Algorithm

Monali Pawa Minal Chaudhari Ankita Wani Dhiraj

Introduction

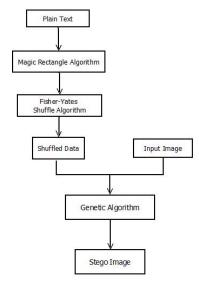
Proposed system

Methodology

Advantages

Conclusion

Referenc







System Design

A
Cryptographic
& Steganographic
system using
Magic
Rectangle &
Genetic
Algorithm

Monali Pawa Minal Chaudhari Ankita Wan Dhiraj

Introduction

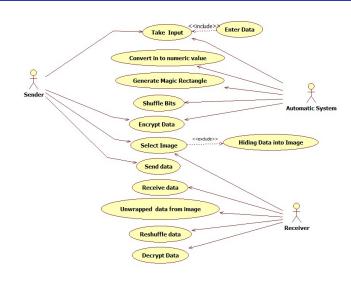
Proposed system

 ${\sf Methodology}$

Advantage

Conclusio

Reference





Advantages

A Cryptographic & Steganographic system using Magic Rectangle & Genetic Algorithm

Monali Pawa Minal Chaudhari Ankita Wani Dhiraj

Introduction

Proposed system

Methodolog

Advantages

Conclusio

References

- Enhances security of the existing system.
- 2 Increases the complexity of cipher text.
- Improves efficiency.
- 4 Unbreakable cryptographic system.



Conclusion

A
Cryptographic
& Steganographic
system using
Magic
Rectangle &
Genetic
Algorithm

Monali Pawai Minal Chaudhari Ankita Wani

Proposed

Methodoic

Advantage

Conclusion

Reference

- Increases the efficiency and security of the data.
- Makes a robust system, protective from different attacks.



References

Cryptographic & Steganographic system using Magic Rectangle & Genetic Algorithm

References

Pratiksha Sethi, V. Kapoor," A Secured System for Information Hiding in Image Steganography using Genetic Algorithm and Cryptography", International Journal of Computer Applications-June 2016.

- Dr. D.I. George Amalarethinam and J.Sai Geetha, K. Mani," Add-on Security Level for Public Key Cryptosystem using Magic Rectangle with Column/Row Shifting", International Journal of Computer Applications (0975 8887) Volume 96 No.14, June 2014.
- "Novel Architecture for Data Shuffling Using Fisher Yates Shuffle Algorithm", C. Aishwarya, J. R. Beny, 30 December 2015.
- Dr. D.I. George Amalarethinam and J.Sai Geetha," Enhancing Security level for Public Key Cryptosystem using MRGA", IEEE 2014.



A
Cryptographic
& Steganographic
system using
Magic
Rectangle &
Genetic
Algorithm

Monali Pawa Minal Chaudhari Ankita Wani

Dhiraj Mahajan

Introduction

Proposed

Methodolog

Advantage

Conclusion

References

Thank You