

**TRABAJO FIN DE MASTER**

INGENIERIA EN INFORMATICA

**Cryptanalysis Ciphertext Based Genetic Algorithms**

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ABSTRACT

Cryptanalysis is breaking the ciphertext(codes) to find the plaintext (original text). There are many tools used in the cryptanalysis. Genetic algorithm (GA Genetic Algorithms are class of optimization solution. The genetic algorithms are search algorithm based on the mechanics of natural selection and natural genetics. In this project Genetic algorithm (GA) used as a cryptanalysis tool to search the decryption key for obtaining the plaintext from the ciphertext When the ciphertext generated by the transposition cipher After testing this work the decryption key obtained in early rounds.