ISSN2321-2152
www.ijmece .com
Vol 12 Issue.1Jan 2024

Data Hiding Scheme using Prediction Tunning Model

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ABSTRACT

Data hiding strategies in photographs have become more common as data security and information hiding gain importance. The efficiency of sensitive data protection is reduced by the errors caused by imprecise prediction model findings and the room for improvement in embedding capacity that exists in current reversible data hiding strategies. We suggest a bit shifting algorithm in this project. General optimization techniques are used to fine-tune the settings for the best outcomes, and standard test photos are used to verify our findings. Additionally, by enhancing data concealing in terms of characteristics like embedding capacity (embedding rate), errors from incorrect predictions can be eliminated while maintaining the visual quality of the images.

Keywords: encryption, decryption, data hiding, features extraction.

1. Introduction

These days, cell phones are an essential component of life. A power source is a necessary component of every electronic system. Mobile phones are used for the majority of tasks on a regular basis, so charging them is a necessary necessity. Thus, the primary concept under consideration is the creation of a system that will enable charging upon coin insertion. What matters is that the aforementioned system will always be usable and accessible in public areas. Since electricity is a constant source of power, we shall use it. The user must place a coin in the coin acceptor and connect the appropriate adaptor to the phone. The amount of charging will be pre-defined values as mentioned in the microcontroller. This system is easy to install and useful for the long distance travelling peoples. The mobile phone market is a vast industry, and has spread into rural areas as an essential means of communication. While the urban populations use more sophisticated mobiles with good power batteries lasting for several days, the rural

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