

Image Steganography using Java Swing Templates

Authors:

Sundar Ganesh C S *

Address For correspondence:

¹ Assistant Professor, Robotics and Automation, PSG College of Technology, Coimbatore, India

Abstract— Multimedia data hiding techniques have developed a strong basis for steganography area with a growing number of applications like digital rights management, covert communications, hiding executables for access control, annotation etc. The advantage of steganography over cryptography alone is that messages do not attract attention to themselves, to messengers, or to recipients. An unhidden coded message, no matter how unbreakable it is, will arouse suspicion and may in itself be incriminating, as in some countries encryption is illegal.

Keywords-image steganography; AWT Components; Stegoanalysis; cryptography; java swing templates.

I. INTRODUCTION

Communication by embedding a message or data file in a cover medium has been increasingly gaining importance in the all-encompassing field of information technology. Audio steganography is concerned with embedding information in an innocuous cover speech in a secure and robust manner. Communication and transmission security and robustness are essential for transmitting vital information to intended sources while denying access to unauthorized persons. By hiding the information using a cover or host audio as a wrapper, the existence of the information is concealed during transmission.

A. Steganography

The term Steganography refers to the art of covert communications. By implementing steganography, it is possible for two parties to communicate in such a way that no one else will know that the message exists[1]. Typically, the message is embedded within another object known as a cover Work, by tweaking its properties. The resulting output, known as a stegogramme is engineered such that it is a near identical

perceptual model of the cover Work, but it will also contain the hidden message. It is this stegogramme that is sent between the two parties. If anybody intercepts the communication, they will obtain the stegogramme, but as it is so similar to the cover, it is a difficult task for them to tell that the stegogramme is anything but innocent. It is therefore the duty of steganography to ensure that the adversary regards the stegogramme - and thus, the communication - as innocuous.

In modern days, steganography is usually implemented computationally, where cover works such as text files, images, audio files, and video files are tweaked in such a way that a secret message can be embedded within them [5].

Steganography also has its applications in preventing the duplication of products, by embedding some secret text inside the company logo of original product.

II. JAVA PROGRAM COMPONENTS

The Swing package is part of Java Foundation Classes (JFC) in the Java platform. The JFC encompasses a group of features to help people build Graphical user Interface (GUI); Swing provides all the components from buttons to split panes and tables[2].

The Swing package was first available as an add-on to Java Development Kit (JDK). Prior to the introduction of the Swing package, the Abstract Window Toolkit (AWT) components provided all the UI components in the JDK1.0 and 1.1 platforms. Although the Java2 Platform still supports the AWT components, we strongly encourage using Swing components instead. The AWT button class, for example, is named Button, whereas the Swing button class is named JButton. In addition, the AWT components are in the java.awt package, whereas the swing components are in the javax.swing package.

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Siti Dhalila Mohd Satar



Image Steganography Using Java Swing Templates:

An Interdisciplinary Introduction to Image Processing Steven L. Tanimoto, 2012-04-27 Basic principles of image processing and programming explained without college level mathematics This book explores image processing from several perspectives the creative the theoretical mainly mathematical and the programmatical It explains the basic principles of image processing drawing on key concepts and techniques from mathematics psychology of perception computer science and art and introduces computer programming as a way to get more control over image processing operations It does so without requiring college level mathematics or prior programming experience The content is supported by PixelMath a freely available software program that helps the reader understand images as both visual and mathematical objects The first part of the book covers such topics as digital image representation sampling brightness and contrast color models geometric transformations synthesizing images stereograms photomosaics and fractals The second part of the book introduces computer programming using an open source version of the easy to learn Python language It covers the basics of image analysis and pattern recognition including edge detection convolution thresholding contour representation and K nearest neighbor classification A chapter on computational photography explores such subjects as high dynamic range imaging autofocusing and methods for automatically inpainting to fill gaps or remove unwanted objects in a scene Applications described include the design and implementation of an image based game The PixelMath software provides a transparent view of digital images by allowing the user to view the RGB values of pixels by zooming in on an image PixelMath provides three interfaces the pixel calculator the formula page an advanced extension of the calculator and the Python window

Advanced Digital Image Steganography Using LSB, PVD, and EMD: Emerging Research and Opportunities

Swain, Gandharba, 2019-06-28 In the last few decades the use of the Internet has grown tremendously and the use of online communications has grown even more The lack of security in private messages between individuals however allows hackers to collect loads of sensitive information Modern security measures are required to prevent this attack on the world's communication technologies Advanced Digital Image Steganography Using LSB PVD and EMD Emerging Research and Opportunities provides evolving research exploring the theoretical and practical aspects of data encryption techniques and applications within computer science The book provides introductory knowledge on steganography and its importance detailed analysis of how RS and PDH are performed discussion on pixel value differencing principles and hybrid approaches using substitution PVD and EMD principles It is ideally designed for researchers and graduate and under graduate students seeking current research on the security of data during transit [Image in Image Steganography Using Pifs](#) Ahmed Hussain Ali, 2013 Steganography encompasses techniques of transmitting secret data through innocuous covers such as that its presence cannot be detected The aim of this book is to design and implement Image in Image Steganography System IISS that hides secret image into cover image without causing any a significant effect on the quality of the cover image In this

work an adaptive hiding method has been implemented to hide the gray scale or color image into color image only the main objective is to increase the hiding rate *Implementing Image Steganography Using Least Significant Bit in Mobile Device* Siti Dhalila Mohd Satar,2012 *Enhancing the Security of High Payload Image Steganography Using Chaos* Rezza Moieni,2013

Image Steganography Using Java Swing Templates: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Image Steganography Using Java Swing Templates : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Image Steganography Using Java Swing Templates : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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