

# suvrashaw/ Steganography



An image steganography program made using Java Swing & AWT.

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# Image Steganography Using Java Swing Templates

**Steven L. Tanimoto**



## **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

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