

A Self Recovery Approach Using Halftone Images for Medical Imagery System

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Abstract— Security has become an inseparable issue even in the field of medical applications. Communication in medicine and healthcare is very important. The fast growth of the exchange traffic in medical imagery on the Internet justifies the creation of adapted tools guaranteeing the quality and the confidentiality of the information while respecting the legal and ethical parameters, specific to this field. Visual Cryptography is the study of mathematical techniques related aspects of Information Security which allows Visual Information to be encrypted in such a way that their decryption can be performed by the human visual system, without any complex cryptographic algorithms. This technique represents the secret image by several different shares of binary images. It is hard to perceive any share about a secret image from individual shares. The secret message is revealed when parts or all of these shares are aligned and stacked together. In this paper we provide an overview of the emerging Visual Cryptography (VC) techniques used in the secure transfer of the medical images over the Internet. The related work is based on the recovering of secret image using a binary logo which is used to represent the ownership of the host image which generates shares by visual cryptography algorithms. An error correction-coding scheme is also used to create the appropriate shares. The logo extracted from the halftoned host image identifies the cheating types. Furthermore, the logo recovers the reconstructed image when shares is being checked using an image self-verification scheme based on the Blakesh technique which checks the halftone logo for effective self verification of the reconstructed secret image without the need for the trusted third party(TTP).

Index Terms—Visual secret sharing, Medical image, Halftoning, Verifying shares, Cryptography

I. INTRODUCTION

THE rapid advancement of network technology, multimedia information is transmitted over the Internet conveniently. Nowadays, the transmission of medical information has become very convenient due to the generality of Internet. The current needs in medical imaging security come mainly from the development of the traffic on Internet (tele-radiology, tele-medicine) and to establishment of medical personal file. Various confidential data such as the secret transfer medical images are transmitted over the Internet. Internet has created the biggest benefit to achieve the transmission of patient information efficiently. However, it is

clear that the hackers can grab or duplicate the medical information on the Internet. While using secret images, security issues should be taken into consideration because hackers may utilize this weak link over communication network to steal the information that they want. To deal with the security problems of secret images, various image secret sharing schemes have been developed.

Visual cryptography scheme [4] eliminates complex computation problems in decryption process thus enabling the transfer of medical images in a more convenient, easy and secure way. Even with the remarkable advances of computer technology, using a computer to decrypt secrets is infeasible in some situations. For example, a security guard checks the badge of an employee or a secret agent recovers an urgent secret at some place where no electronic devices are applied. In these situations the human visual system is one of the most convenient and reliable tools to do checking and secret recovery. Visual cryptography (VC), proposed by Naor and Shamir [1], is a method for protecting image-based secrets that has a computation-free decryption process.

Pixel	Probability	Share1	Share2	Share1 + Share2
	50%			
	50%			
	50%			
	50%			

Fig. 1. Construction of (2, 2)-VC Scheme

If 'p' is white, one of the two columns under the white pixel in Figure 1 is selected. If p is black, one of the two columns under the black pixel is selected. In each case, the selection is performed randomly such that each column has 50% probability to be chosen. Then, the first two pairs of sub pixels in the selected columns are assigned to share 1 and share 2, respectively. Thus, in each share, p is encrypted into a black-white or white-black pair of sub pixels, an individual share gives no clue about the secret image [7].

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Andrews, 1978 **Official Gazette of the United States Patent and Trademark Office** United States. Patent and Trademark Office, 2001 **Digital-Forensics and Watermarking** Yun Qing Shi, Hyoungh-Joong Kim, Fernando

Pérez-González, 2014-07-08 This book constitutes the thoroughly refereed post proceedings of the 12th International Workshop on Digital Forensics and Watermarking IWDW 2013 held in Auckland New Zealand during October 2013 The 24 full and 13 poster papers presented together with 2 abstracts were carefully reviewed and selected from 55 submissions The papers are organized in topical sections on steganography and steganalysis visual cryptography reversible data hiding forensics watermarking anonymizing and plate recognition Digital Forensics and Watermarking Hongxia Wang, Xianfeng

Zhao, Yunqing Shi, Hyoungh Joong Kim, Alessandro Piva, 2020-03-25 The 22 full papers and 12 shorts papers presented in this volume were carefully reviewed and selected from 70 submissions The contributions are covering the following topics deep learning for multimedia security digital forensics and anti forensics digital watermarking information hiding steganography and steganalysis authentication and security *Selected Papers on Coherent Optical Processing* Francis T. S. Yu, Shizhuo

Yin, 1992 **U.S. Geological Survey Bulletin**, 1983 Selected Papers on Digital Image Processing Mohan M.

Trivedi, 1990 **Advanced Graphic Communications, Packaging Technology and Materials** Yun Ouyang, Min Xu, Li Yang, Yujie Ouyang, 2015-12-04 This book includes a selection of reviewed papers presented at the 2015 4th China Academic Conference on Printing and Packaging which was held on October 22-24 2015 in Hangzhou China The conference was jointly organized by the China Academy of Printing Technology Beijing Institute of Graphic Communication and Hangzhou Dianzi University With 3 keynote talks and 200 presented papers on graphic communications packaging technologies and materials the conference attracted more than 400 scientists These proceedings cover the recent research outcomes on color science and technology image processing technology digital media technology printing engineering technology packaging engineering technology etc They will be of interest to university researchers R D engineers and graduate students in graphic

communications packaging color science image science materials science computer science digital media and network technology fields

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Handbook of Image and Video Processing Alan C. Bovik, 2010-07-21 55% new material in the latest edition of this must have for students and practitioners of image video processing This Handbook is intended to serve as the basic reference point on image and video processing in the field in the research laboratory and in the classroom Each chapter has been written by carefully selected distinguished experts specializing in that topic and carefully reviewed by the Editor Al Bovik ensuring that the greatest depth of understanding be communicated to the reader Coverage includes introductory intermediate and advanced topics and as such this book serves equally well as classroom textbook as reference resource Provides practicing engineers and students with a highly accessible resource for learning and using image video processing theory and algorithms Includes a new chapter on image processing education which should prove invaluable for those developing or modifying their curricula Covers the various image and video processing standards that exist and are emerging driving today's explosive industry Offers an understanding of what images are how they are modeled and gives an introduction to how they are perceived Introduces the necessary practical background to allow engineering students to acquire and process their own digital image or video data Culminates with a diverse set of applications chapters covered in sufficient depth to serve as extensible models to the reader's own potential applications About the Editor Al Bovik is the Cullen Trust for Higher Education Endowed Professor at The University of Texas at Austin where he is the Director of the Laboratory for Image and Video Engineering LIVE He has published over 400 technical articles in the general area of image and video processing and holds two U S patents Dr Bovik was Distinguished Lecturer of the IEEE Signal Processing Society 2000 received the IEEE Signal Processing Society Meritorious Service Award 1998 the IEEE Third Millennium Medal 2000 and twice was a two time Honorable Mention winner of the international Pattern Recognition Society Award He is a Fellow of the IEEE was Editor in Chief of the IEEE Transactions on Image Processing 1996 2002 has served on and continues to serve on many other

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implementations in image and video technology Digital-Forensics and Watermarking Yun Q. Shi, Fernando Pérez-González, Hyoung Joong Kim, 2013-07-24 This book constitutes the thoroughly refereed post proceedings of the 11th International Workshop on Digital Forensics and Watermarking IWDW 2012 held in Shanghai China during October November 2012 The 42 revised papers 27 oral and 15 poster papers were carefully reviewed and selected from 70 submissions The papers are organized in topical sections on steganography and steganalysis watermarking and copyright protection forensics and anti forensics reversible data hiding fingerprinting and authentication visual cryptography

Artificial Intelligence and Security Xingming Sun, Xiaorui Zhang, Zhihua Xia, Elisa Bertino, 2021-07-09 This two volume set of LNCS 12736 12737 constitutes the refereed proceedings of the 7th International Conference on Artificial Intelligence and Security ICAIS 2021 which was held in Dublin Ireland in July 2021 The conference was formerly called International Conference on Cloud Computing and Security with the acronym ICCCS The total of 93 full papers and 29 short papers presented in this two volume proceedings was carefully reviewed and selected from 1013 submissions Overall a total of 224 full and 81 short papers were accepted for ICAIS 2021 the other accepted papers are presented in CCIS 1422 1424 The papers were organized in topical sections as follows Part I Artificial intelligence and big data Part II Big data cloud computing and security encryption and cybersecurity information hiding IoT security and multimedia forensics

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