

Audio Steganography By Different Methods Ijetae

Steganography Techniques for Digital Images *Hiding in Plain Sight* **Disappearing Cryptography** *Advances in Computer and Information Sciences and Engineering Data Hiding* **Multimedia Security** **Steganography in Digital Media** *Secrets of Steganography* *Advanced Statistical Steganalysis* *Cryptography and Steganography in Digital Images* **Image Steganographic Systems Using Transforms** *Disappearing Cryptography* *Noiseless Steganography* *Reversible Steganography and Authentication via Transform Encoding* *Multidisciplinary Approach to Modern Digital Steganography* **Handbook of Research on Modeling, Analysis, and Application of Nature-Inspired Metaheuristic Algorithms** **Information Hiding in Communication Networks** *Digital Media Steganography Security in Computing and Communications* *Advances in Computing and Communications, Part II* **Information Hiding in Speech Signals for Secure Communication** *Digital Forensics and Watermarking* **Information Hiding** *Computer Networks and Inventive Communication Technologies* *Security and Privacy in Digital Economy* *The SAGE Encyclopedia of the Internet* *Algorithm of Steganography to Hiding Secret Information within an Image File* **ICCSM2013-Proceedings of the International Conference on Cloud Security Management** **Steganology for the Computer Forensics Examiners** *Data Hiding Techniques in Windows OS* *Information Hiding* **Global Trends in Information Systems and Software Applications** *Steganography: From Black Magic to the Magic of Science* **The Use of Steganography in Cyber-terrorist Communications** *Advances in Information Security and Assurance* *Proceedings of the International*

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

Conference on Soft Computing Systems Cryptography and Steganography. A multilayer Data Security Approach Investigator's Guide to Steganography **Intelligent Cyber-Physical Systems Security for Industry 4.0 Information Hiding**

Thank you certainly much for downloading **Audio Steganography By Different Methods Ijetae**. Maybe you have knowledge that, people have see numerous time for their favorite books later this Audio Steganography By Different Methods Ijetae, but end up in harmful downloads.

Rather than enjoying a good book as soon as a mug of coffee in the afternoon, otherwise they juggled afterward some harmful virus inside their computer. **Audio Steganography By Different Methods Ijetae** is approachable in our digital library an online entrance to it is set as public as a result you can download it instantly. Our digital library saves in merged countries, allowing you to acquire the most less latency times to download any of our books taking into consideration this one. Merely said, the Audio Steganography By Different Methods Ijetae is universally compatible later any devices to read.

Security and Privacy in Digital Economy Oct 11 2020 This book constitutes the refereed proceedings of the First International Conference on Security and Privacy in Digital Economy, SPDE 2020, held in Quzhou, China, in October 2020*. The 49 revised full papers and 2 short papers were carefully reviewed and selected from 132 submissions. The papers are organized in topical sections: cyberspace security, privacy protection, anomaly and intrusion detection, trust computation and forensics, attacks and countermeasures, covert communication, security protocol, anonymous communication, security and privacy from social

science. *The conference was held virtually due to the COVID-19 pandemic.

Steganography in Digital Media Apr 28 2022 Understand the building blocks of covert communication in digital media and apply the techniques in practice with this self-contained guide.

Steganography Techniques for Digital Images Nov 04 2022

This book covers newly developed and novel Steganography techniques and algorithms. The book outlines techniques to provide security to a variety of applications using Steganography, with the goal of both hindering an adversary from decoding a hidden message, and also preventing an adversary from suspecting the existence of covert communications. The book looks into applying these newly designed and improved algorithms to provide a new and efficient Steganographic system, called Characteristic Region-Based Image Steganography (CR-BIS). The algorithms combine both the robustness of the Speeded-Up Robust Features technique (SURF) and Discrete Wavelet Transform (DWT) to achieve characteristic region Steganography synchronization. The book also touches on how to avoid hiding data in the whole image by dynamically selecting characteristic regions for the process of embedding. Applies and discusses innovative techniques for hiding text in a digital image file or even using it as a key to the encryption; Provides a variety of methods to achieve characteristic region Steganography synchronization; Shows how Steganography improves upon cryptography by using obscurity features.

Security in Computing and Communications Apr 16 2021 This book constitutes the refereed proceedings of the International Symposium on Security in Computing and Communications, SSCC 2015, held in Kochi, India, in August 2015. The 36 revised full papers presented together with 13 short papers were carefully reviewed and selected from 157 submissions. The papers are organized in topical sections on security in cloud computing; authentication and access control systems; cryptography and

Online Library
karmaffine.com on
December 5, 2022 Free
Download Pdf

steganography; system and network security; application security.

Steganography: From Black Magic to the Magic of Science Feb 01 2020 Perhaps, steganography emerged in ancient times as a dark magic, but certainly, it evolved during the computer age at large. Currently, it has many techniques, methods, and applications, making it worth having a closer look at. This book presents a comprehensive overview on steganography and on its different techniques that have been proposed in the literature during the last decades. It additionally sheds the light on its history before and after the advent of digital computers, its various algorithms, requirements, and processes

ICCSM2013-Proceedings of the International Conference on Cloud Security Management Jul 08 2020

The Use of Steganography in Cyber-terrorist

Communications Jan 02 2020 This paper discusses the use of steganography as a tool for hiding covert communications between terrorists. Steganography tools are being used within different mediums to conceal communications from one terrorist or terrorist cell to another without the knowledge of a third party. Terrorists use various steganography tools (either freeware or for purchase) to embed or "hide" data in a carrier file; commonly an image, audio, or video file. The tools have the ability to conceal information in a manner unnoticeable to the naked eye requiring further investigation and verification if suspected. Through the use of steganography many countries are rising as greater threats to the United States within the cyber-realm. With the recent incidents involving the penetration of U.S. computer systems, knowledge of steganography tools and how it is used has become more relevant. Agencies need to gain a better understanding of the methods and tools that are being used by those posing the greatest threat to our national security while continuously improving upon existing policies and risk assessment measures; as well as training and educating all levels of employees to be

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

more alert for possible steganographic messages.

Steganology for the Computer Forensics Examiners Jun 06

2020 It is tough to know intention of the steganography users .So it is difficult for investigators or forensic examiners to detect an image. Examiners need to develop other forensic tools like steganography, steganalysis and sterilization for better advancement. As key may or may not use in steganography, so it is cheaper in comparison to cryptography. Beside, they can be also implemented by any user to preserve the integrity of the message easily since digital signature is not indispensable here. Nowadays, organizations based on steganology are concentrated on different untraceable steganographic algorithms. Similarly, steganalysis and sterilization tools are used for undetected steganographic algorithms. Image Processing provides several information regarding image or current situations, where as steganography (can considered as a chapter of image processing) provide strength of security. Where as sterilization and steganalysis strengthen it.

Noiseless Steganography Oct 23 2021 Among the features that make Noiseless Steganography: The Key to Covert

Communications a first of its kind: The first to comprehensively cover Linguistic SteganographyThe first to comprehensively cover Graph SteganographyThe first to comprehensively cover Game SteganographyAlthough the goal of steganography is to prevent adversaries from suspe

Hiding in Plain Sight Oct 03 2022 Explains exactly what steganography is-hiding a message inside an innocuous picture or music file-and how it has become a popular tool for secretly sending and receiving messages for both the good guys and the bad guys First book to describe international terrorists' cybersecurity tool of choice in an accessible language Author is a top security consultant for the CIA and provides gripping stories that show how steganography works Appendix provides tools to help people detect and counteract steganography

Online Library
karmaffine.com on
December 5, 2022 Free
Download Pdf

Data Hiding Techniques in Windows OS May 06 2020 "This unique book delves down into the capabilities of hiding and obscuring data object within the Windows Operating System. However, one of the most noticeable and credible features of this publication is, it takes the reader from the very basics and background of data hiding techniques, and run's on the reading-road to arrive at some of the more complex methodologies employed for concealing data object from the human eye and/or the investigation. As a practitioner in the Digital Age, I can see this book siting on the shelves of Cyber Security Professionals, and those working in the world of Digital Forensics - it is a recommended read, and is in my opinion a very valuable asset to those who are interested in the landscape of unknown unknowns. This is a book which may well help to discover more about that which is not in immediate view of the onlooker, and open up the mind to expand its imagination beyond its accepted limitations of known knowns." - John Walker, CSIRT/SOC/Cyber Threat Intelligence Specialist Featured in Digital Forensics Magazine, February 2017 In the digital world, the need to protect online communications increase as the technology behind it evolves. There are many techniques currently available to encrypt and secure our communication channels. Data hiding techniques can take data confidentiality to a new level as we can hide our secret messages in ordinary, honest-looking data files. Steganography is the science of hiding data. It has several categorizations, and each type has its own techniques in hiding. Steganography has played a vital role in secret communication during wars since the dawn of history. In recent days, few computer users successfully manage to exploit their Windows® machine to conceal their private data. Businesses also have deep concerns about misusing data hiding techniques. Many employers are amazed at how easily their valuable information can get out of their company walls. In many legal cases a disgruntled employee would successfully steal company private data despite all security

Online Library
karmaffine.com on
December 5, 2022 Free
Download Pdf

measures implemented using simple digital hiding techniques. Human right activists who live in countries controlled by oppressive regimes need ways to smuggle their online communications without attracting surveillance monitoring systems, continuously scan in/out internet traffic for interesting keywords and other artifacts. The same applies to journalists and whistleblowers all over the world. Computer forensic investigators, law enforcements officers, intelligence services and IT security professionals need a guide to tell them where criminals can conceal their data in Windows® OS & multimedia files and how they can discover concealed data quickly and retrieve it in a forensic way. Data Hiding Techniques in Windows OS is a response to all these concerns. Data hiding topics are usually approached in most books using an academic method, with long math equations about how each hiding technique algorithm works behind the scene, and are usually targeted at people who work in the academic arenas. This book teaches professionals and end users alike how they can hide their data and discover the hidden ones using a variety of ways under the most commonly used operating system on earth, Windows®.

Disappearing Cryptography Sep 02 2022 The bestselling first edition of "Disappearing Cryptography" was known as the best introduction to information hiding. This fully revised and expanded second edition describes a number of different techniques that people can use to hide information, such as encryption.

The SAGE Encyclopedia of the Internet Sep 09 2020 The Internet needs no introduction, and its significance today can hardly be exaggerated. Today, more people are more connected technologically to one another than at any other time in human existence. For a large share of the world's people, the Internet, text messaging, and various other forms of digital social media such as Facebook have become thoroughly woven into the routines and rhythms of daily life. The Internet has transformed

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

how we seek information, communicate, entertain ourselves, find partners, and, increasingly, it shapes our notions of identity and community. The SAGE Encyclopedia of the Internet addresses the many related topics pertaining to cyberspace, email, the World Wide Web, and social media. Entries will range from popular topics such as Alibaba and YouTube to important current controversies such as Net neutrality and cyberterrorism. The goal of the encyclopedia is to provide the most comprehensive collection of authoritative entries on the Internet available, written in a style accessible to academic and non-academic audiences alike.

Information Hiding Jun 26 2019 This book constitutes the thoroughly refereed post-workshop proceedings of the 11th International Workshop on Information Hiding, IH 2009, held in Darmstadt, Germany, in June 2009. The 19 revised full papers presented were carefully reviewed and selected from 55 submissions. The papers are organized in topical sections on steganography, steganalysis, watermarking, fingerprinting, hiding in unusual content, novel applications and forensics.

Advances in Information Security and Assurance Dec 01 2019 Welcome to the Third International Conference on Information Security and Assurance (ISA 2009). ISA 2009 was the most comprehensive conference focused on the various aspects of advances in information security and assurance. The concept of security and assurance is emerging rapidly as an exciting new paradigm to provide reliable and safe life services. Our conference provides a chance for academic and industry professionals to discuss recent progress in the area of communication and networking including modeling, simulation and novel applications associated with the utilization and acceptance of computing devices and systems. ISA 2009 was a successor of the First International Workshop on Information Assurance in Networks (IAN 2007, Jeju-island, Korea, December, 2007), and the Second International Conference on Information

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

Security and Assurance (ISA 2008, Busan, Korea, April 2008). The goal of this conference is to bring together researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of information technology. ISA 2009 contained research papers submitted by researchers from all over the world. In order to guarantee high-quality proceedings, we put extensive effort into reviewing the papers. All submissions were peer reviewed by at least three Program Committee members as well as external reviewers. As the quality of the submissions was quite high, it was extremely difficult to select the papers for oral presentation and publication in the proceedings of the conference.

Global Trends in Information Systems and Software

Applications Mar 04 2020 This 2-Volume-Set, CCIS 0269-CCIS 0270, constitutes the refereed proceedings of the International Conference on Global Trends in Computing and Communication (CCIS 0269) and the International Conference on Global Trends in Information Systems and Software Applications (CCIS 0270), ObCom 2011, held in Vellore, India, in December 2011. The 173 full papers presented together with a keynote paper and invited papers were carefully reviewed and selected from 842 submissions. The conference addresses issues associated with computing, communication and information. Its aim is to increase exponentially the participants' awareness of the current and future direction in the domains and to create a platform between researchers, leading industry developers and end users to interrelate.

Information Hiding in Communication Networks Jun 18 2021

Describes Information Hiding in communication networks, and highlights their important issues, challenges, trends, and applications. Highlights development trends and potential future directions of Information Hiding Introduces a new classification and taxonomy for modern data hiding techniques Presents different types of network steganography mechanisms Introduces

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

several example applications of information hiding in communication networks including some recent covert communication techniques in popular Internet services

Information Hiding Apr 04 2020 IH 2010 was the 12th Information Hiding Conference, held in Calgary, Canada, June 28-30, 2010. This series of conferences started with the First Workshop on Information Hiding, held in Cambridge, UK in May 1996. Since then, the conference locations have alternated between Europe and North America. The conference has been held annually since 2005. For many years, information hiding has captured the imagination of - searchers. This conference series aims to bring together a number of closely related research areas, including digital watermarking, steganography and s- ganalysis, anonymity and privacy, covert and subliminal channels, ?ngerprinting and embedding codes, multimedia forensics and counter-forensics, as well as theoretical aspects of information hiding and detection. Since its inception, the conference series has been a premier forum for publishing research in these areas. This volume contains the revised versions of 18 accepted papers (incor- rating the comments from members of the Program Committee), and extended abstracts of two (out of three) invited talks. The conference received 39 anonymous submissions for full papers. The task of selecting 18 of them for presentation was not easy. Each submission was reviewed by at least three members of the Program Committee or external - viewers reporting to a member of the Program Committee. In the case of - authorship by a Program Committee member, ?ve reviews were sought. There is no need to say that no member of the Program Committee reviewed his or her own work. Each paper was carefully discussed until consensus was reached.

Digital Forensics and Watermarking Jan 14 2021 This book constitutes the refereed proceedings of the 16th International Workshop on Digital Forensics and Watermarking, IWDW 2017, held in Magdeburg, Germany, in August 2017. The 30 papers

Online Library
karmaffine.com on
December 5, 2022 Free
Download Pdf

presented in this volume were carefully reviewed and selected from 48 submissions. The contributions are covering the state-of-the-art theoretical and practical developments in the fields of digital watermarking, steganography and steganalysis, forensics and anti-forensics, visual cryptography, and other multimedia-related security issues. Also included are the papers on two special sessions on biometric image tampering detection and on emerging threats of criminal use of information hiding : usage scenarios and detection approaches.

Advanced Statistical Steganalysis Feb 24 2022 Steganography is the art and science of hiding information in inconspicuous cover data so that even the existence of a secret message is kept confidential, and steganalysis is the task of detecting secret messages in covers. This research monograph focuses on the role of cover signals, the distinguishing feature that requires us to treat steganography and steganalysis differently from other secrecy techniques. The main theoretical contribution of the book is a proposal to structure approaches to provably secure steganography according to their implied assumptions on the limits of the adversary and on the nature of covers. A further contribution is the emphasis on dealing with heterogeneity in cover distributions, crucial for security analyses. The author's work complements earlier approaches based on information, complexity, probability and signal processing theory, and he presents numerous practical implications. The scientific advances are supported by a survey of the classical steganography literature; a new proposal for a unified terminology and notation that is maintained throughout the book; a critical discussion of the results achieved and their limitations; and an assessment of the possibility of transferring elements of this research's empirical perspective to other domains in information security. The book is suitable for researchers working in cryptography and information security, practitioners in the corporate and national security domains, and graduate students specializing in

Online Library
karmaffine.com on
December 5, 2022 Free
Download Pdf

multimedia security and data hiding.

Advances in Computer and Information Sciences and Engineering

Aug 01 2022 Advances in Computer and Information Sciences and Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer Engineering, and Systems Engineering and Sciences. Advances in Computer and Information Sciences and Engineering includes selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2007) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2007).

Data Hiding Jun 30 2022 As data hiding detection and forensic techniques have matured, people are creating more advanced stealth methods for spying, corporate espionage, terrorism, and cyber warfare all to avoid detection. Data Hiding provides an exploration into the present day and next generation of tools and techniques used in covert communications, advanced malware methods and data concealment tactics. The hiding techniques outlined include the latest technologies including mobile devices, multimedia, virtualization and others. These concepts provide corporate, government and military personnel with the knowledge to investigate and defend against insider threats, spy techniques, espionage, advanced malware and secret communications. By understanding the plethora of threats, you will gain an understanding of the methods to defend oneself from these threats through detection, investigation, mitigation and prevention. Provides many real-world examples of data concealment on the latest technologies including iOS, Android, VMware, MacOS X, Linux and Windows 7 Dives deep into the less known approaches to data hiding, covert communications, and advanced malware Includes never before published information about next generation methods of data hiding Outlines a well-

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

defined methodology for countering threats Looks ahead at future predictions for data hiding

Cryptography and Steganography. A multilayer Data Security

Approach Sep 29 2019 Document from the year 2021 in the

subject Computer Science - IT-Security, grade: 2, , language:

English, abstract: This book focuses on the implementation of

Image steganography and modifying the existing technique to add

more security to a normal steganography technique. The Book

emphasizes various techniques used in steganography with

methodology, algorithm, MATLAB implementation and

implementation in Java. There is data everywhere, in the form of

images, text and audio/video files. Some data is very crucial or

personal and needs to be kept confidential. For that reason, we

have cryptography. Cryptography is the science of encrypting a

message such that an unauthorized party cannot comprehend

what that message means. Only those who possess the key can

decrypt the message. There might be cases where just encrypting

the information is not enough, since an encrypted message can

raise suspicion. Steganography is the science of hiding a message

completely inside another form of data so that the existence of

the actual message is not revealed during communication. It is

possible to hide the image in any of the digital formats whether it

is images, videos or even audio files. Images are popular because

they are really frequent on the internet and hence do not arouse

suspicion. This book intends to give an overview cryptography

with image steganography.

Handbook of Research on Modeling, Analysis, and

Application of Nature-Inspired Metaheuristic Algorithms Jul

20 2021 The digital age is ripe with emerging advances and

applications in technological innovations. Mimicking the structure

of complex systems in nature can provide new ideas on how to

organize mechanical and personal systems. The Handbook of

Research on Modeling, Analysis, and Application of Nature-

Inspired Metaheuristic Algorithms is an essential scholarly

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

resource on current algorithms that have been inspired by the natural world. Featuring coverage on diverse topics such as cellular automata, simulated annealing, genetic programming, and differential evolution, this reference publication is ideal for scientists, biological engineers, academics, students, and researchers that are interested in discovering what models from nature influence the current technology-centric world.

Information Hiding Dec 13 2020 This book constitutes the thoroughly refereed post-proceedings of the 5th International Workshop on Information Hiding, IH 2002, held in Noordwijkerhout, The Netherlands, in October 2002. The 27 revised full papers presented were carefully selected during two rounds of reviewing and revision from 78 submissions. The papers are organized in topical sections on information hiding and networking, anonymity, fundamentals of watermarking, watermarking algorithms, attacks on watermarking algorithms, steganography algorithms, steganalysis, and hiding information in unusual content.

Secrets of Steganography Mar 28 2022 Sometimes, the best hiding place is right in plain sight. Find out about steganography, the practice of concealing messages right under others' noses. See how it links with cryptology, the science of secret communication, and how the two have been used in some of history's biggest moments. Learn about invisible inks, the Cardano Grille, the use of microdots in WWI, and the butterfly maps of Lord Baden-Powell. And follow steganography into modern day with a hands-on activity and stories of hidden files and cybercrime.

Computer Networks and Inventive Communication Technologies Nov 11 2020 This book is a collection of peer-reviewed best-selected research papers presented at 4th International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT 2021). The book covers new results in theory, methodology, and applications of computer networks and

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

data communications. It includes original papers on computer networks, network protocols and wireless networks, data communication technologies, and network security. The proceedings of this conference are a valuable resource, dealing with both the important core and the specialized issues in the areas of next-generation wireless network design, control, and management, as well as in the areas of protection, assurance, and trust in information security practice. It is a reference for researchers, instructors, students, scientists, engineers, managers, and industry practitioners for advanced work in the area.

Disappearing Cryptography Nov 23 2021 Cryptology is the practice of hiding digital information by means of various obfuscatory and steganographic techniques. The application of said techniques facilitates message confidentiality and sender/receiver identity authentication, and helps to ensure the integrity and security of computer passwords, ATM card information, digital signatures, DVD and HDDVD content, and electronic commerce. Cryptography is also central to digital rights management (DRM), a group of techniques for technologically controlling the use of copyrighted material that is being widely implemented and deployed at the behest of corporations that own and create revenue from the hundreds of thousands of mini-transactions that take place daily on programs like iTunes. This new edition of our best-selling book on cryptography and information hiding delineates a number of different methods to hide information in all types of digital media files. These methods include encryption, compression, data embedding and watermarking, data mimicry, and scrambling. During the last 5 years, the continued advancement and exponential increase of computer processing power have enhanced the efficacy and scope of electronic espionage and content appropriation. Therefore, this edition has amended and expanded outdated sections in accordance with new dangers, and

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

includes 5 completely new chapters that introduce newer more sophisticated and refined cryptographic algorithms and techniques (such as fingerprinting, synchronization, and quantization) capable of withstanding the evolved forms of attack. Each chapter is divided into sections, first providing an introduction and high-level summary for those who wish to understand the concepts without wading through technical explanations, and then presenting concrete examples and greater detail for those who want to write their own programs. This combination of practicality and theory allows programmers and system designers to not only implement tried and true encryption procedures, but also consider probable future developments in their designs, thus fulfilling the need for preemptive caution that is becoming ever more explicit as the transference of digital media escalates. Includes 5 completely new chapters that delineate the most current and sophisticated cryptographic algorithms, allowing readers to protect their information against even the most evolved electronic attacks Conceptual tutelage in conjunction with detailed mathematical directives allows the reader to not only understand encryption procedures, but also to write programs which anticipate future security developments in their design

Investigator's Guide to Steganography Aug 28 2019 Investigators within the law enforcement and cyber forensics communities are generally aware of the concept of steganography, but their levels of expertise vary dramatically depending upon the incidents and cases that they have been exposed to. Now there is a book that balances the playing field in terms of awareness, and serves as a valuable refer

[Reversible Steganography and Authentication via Transform](#)

[Encoding](#) Sep 21 2021 This book focuses on reversible steganography and authentication via transform encoding, fully discussing in detail the reversibility computation of six transformation techniques: DFT, DCT, wavelets, Z, binomial and

Online Library

[karmaffine.com](#) on

December 5, 2022 Free

Download Pdf

grouplet, as well as chaos-based authentication. The book also describes algorithmic approaches based on all transformations along with implementation details and results. Further topics include embedding and extraction into the spatial domain, tuning using GA-based approaches and embedding into imaginary coefficients of the Z domain. Featuring detailed algorithms for encryption and descriptions of all techniques, including embedding techniques for all transform-based steganographic processes, the book also explores the adjustment of pixel values after embedding and presents numerical examples of reversible computations. In the context of chaos-based authentication, it also describes testing the quality of generator is using Monobit, Serial and Poker tests. The book then outlines 15 test cases recommended by NIST fifteen test cases, along with their implementation on six evolutionary algorithms for neural cryptographic systems in the context of wireless computations - TPM, KSOMSCT, DHLPSCT, CHDLPST, CTHLPST and CGTHLPST - and verifies their satisfiability based on the implementations of these six techniques. Lastly it presents various metrics of image processing systems. This book is a valuable reference resource for research scholars, PG/UG students and practicing engineers

Cryptography and Steganography in Digital Images Jan 26 2022

Master's Thesis from the year 2009 in the subject Computer Science - IT-Security, grade: 19.61 / 20, language: English, abstract: Cryptography is one of the technological means that provides protection to digital data being transmitted on communications systems. It provides methods of converting data into an unreadable form, while the Steganography is a technique by which the secret digital data is sent from one place to other by hiding it within a digital cover so the existence of secret data is concealed. The data to be hidden takes the form of any bit stream while the digital cover can be a digital image, audio, or video file. Combining Cryptography and Steganography provides two layers

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

protection, the former encrypts the secret message so it becomes unreadable; the latter hides the encrypted message into a digital cover so it cannot be seen. In this thesis, we briefly review the principles of cryptography and its algorithms while doing deep work in JPEG-based steganography. Since JPEG format is the most frequently used through the internet, it is desirable to study some Steganographic techniques based on JPEG format. Chapter 2 presents the JPEG structure and the related subjects; DCT transformation, and entropy coding. Chapter 3 presents some important DCT-based methods like F3, F5, and Mod4 and shows their properties and features. Chapter 4 presents a comparison study between DCT-based steganographic methods F5 and Mod4, the study was completed using Matlab software written for F5 and Mod4 algorithms. In this study, three steganographic requirements are considered; insertion capacity, image quality, and statistical properties. The study shows that F5_111 has big insertion capacity but it could be detected easily while Mod4 has small insertion capacity but it can not be detected easily. The study shows that F5_ME takes a middle position between the considered algorithms. A magic triangle model is presented in order to compare visually between the considered

Proceedings of the International Conference on Soft Computing Systems Oct 30 2019 The book is a collection of high-quality peer-reviewed research papers presented in International Conference on Soft Computing Systems (ICSCS 2015) held at Noorul Islam Centre for Higher Education, Chennai, India. These research papers provide the latest developments in the emerging areas of Soft Computing in Engineering and Technology. The book is organized in two volumes and discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.

Multidisciplinary Approach to Modern Digital Steganography Aug

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

21 2021 Steganography is the art of secret writing. The purpose of steganography is to hide the presence of a message from the intruder by using state-of-the-art methods, algorithms, architectures, models, and methodologies in the domains of cloud, internet of things (IoT), and the Android platform. Though security controls in cloud computing, IoT, and Android platforms are not much different than security controls in an IT environment, they might still present different types of risks to an organization than the classic IT solutions. Therefore, a detailed discussion is needed in case there is a breach in security. It is important to review the security aspects of cloud, IoT, and Android platforms related to steganography to determine how this new technology is being utilized and improved continuously to protect information digitally. The benefits and challenges, along with the current and potential developments for the future, are important keystones in this critical area of security research. Multidisciplinary Approach to Modern Digital Steganography reviews the security aspects of cloud, IoT, and Android platforms related to steganography and addresses emerging security concerns, new algorithms, and case studies in the field. Furthermore, the book presents a new approach to secure data storage on cloud infrastructure and IoT along with including discussions on optimization models and security controls that could be implemented. Other important topics include data transmission, deep learning techniques, machine learning, and both image and text stenography. This book is essential for forensic engineers, forensic analysts, cybersecurity analysts, cyber forensic examiners, security engineers, cybersecurity network analysts, cyber network defense analysts, and digital forensic examiners along with practitioners, researchers, academicians, and students interested in the latest techniques and state-of-the-art methods in digital steganography.

Intelligent Cyber-Physical Systems Security for Industry 4.0

Jul 28 2019 Intelligent Cyber-Physical Systems Security for

Online Library
karmaffine.com on
December 5, 2022 Free
Download Pdf

Industry 4.0: Applications, Challenges and Management presents new cyber-physical security findings for Industry 4.0 using emerging technologies like artificial intelligence (with machine/deep learning), data mining, applied mathematics. All these are the essential components for processing data, recognizing patterns, modeling new techniques, and improving the advantages of data science. Features • Presents an integrated approach with Cyber-Physical Systems, CPS security, and Industry 4.0 in one place • Exposes the necessity of security initiatives, standards, security policies, and procedures in the context of industry 4.0 • Suggests solutions for enhancing the protection of 5G and the Internet of Things (IoT) security • Promotes how optimization or intelligent techniques envisage the role of artificial intelligence-machine/deep learning (AI-ML/DL) in cyberphysical systems security for industry 4.0 This book is primarily aimed at graduates, researchers and professionals working in the field of security. Executives concerned with security management, knowledge dissemination, information, and policy development for data and network security in different educational, government, and non-government organizations will also find this book useful.

Information Hiding in Speech Signals for Secure

Communication Feb 12 2021 In the digital world, the need to protect communications increases every day. While traditional digital encryption methods are useful, there are many other options for hiding your information. Information Hiding in Speech Signals for Secure Communication provides a number of methods to hide secret speech information using a variety of digital speech coding standards. Professor Zhijun Wu has conducted years of research in the field of speech information hiding, and brings his state-of-the-art techniques to readers of this book, including a mathematical model for information hiding, the core concepts of secure speech communication, the ABS-based information hiding algorithm, and much more. This book shows how to implement a

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

secure speech communication system, including applications to various network security states. Readers will find information hiding algorithms and techniques (embedding and extracting) that are capable of withstanding the advanced forms of attack. The book presents concepts and applications for all of the most widely used speech coding standards, including G.711, G.721, G.728, G.729 and GSM, along with corresponding hiding and extraction algorithms. Readers will also learn how to use a speech covert communication system over an IP network as well as a speech secure communication system applied in PSTN. Presents information hiding theory and the mathematical model used for information hiding in speech. Provides a number of methods to hide secret speech information using the most common digital speech coding standards. A combination of practice and theory enables programmers and system designers not only to implement tried and true encryption procedures, but also to consider probable future developments in their designs.

Image Steganographic Systems Using Transforms Dec 25 2021 Steganography is used to hide information in some other medium to provide protection against detection. The success of a technique lies in changing the cover medium in a way that makes the change imperceptible for both the human and computer. A major limitation of steganography is the size of the cover medium used. Therefore, all the Steganographic methods aim to achieve higher hiding capacity in a given medium. Images however, offer a wide variety of ways in which additional information could be embedded. The major dimensions in which images can be used are spectrum, Least Significant Bit (LSB) substitution and transformed domain steganography. The transformed domain steganography techniques are more robust and difficult to detect as compared to LSB insertion. There are few techniques available for color image steganography because, most of the color image formats like jpeg are larger in size and communicating heavy images over open systems like internet can raise suspicions. This

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

book, therefore, provides three steganographic systems based on wavelet/contourlet transforms and Blowfish encryption for improved image steganography using different image sizes of JPEG format.

Multimedia Security May 30 2022 Multimedia Security: Watermarking, Steganography, and Forensics outlines essential principles, technical information, and expert insights on multimedia security technology used to prove that content is authentic and has not been altered. Illustrating the need for improved content security as the Internet and digital multimedia applications rapidly evolve, this book presents a wealth of everyday protection application examples in fields including multimedia mining and classification, digital watermarking, steganography, and digital forensics. Giving readers an in-depth overview of different aspects of information security mechanisms and methods, this resource also serves as an instructional tool on how to use the fundamental theoretical framework required for the development of extensive advanced techniques. The presentation of several robust algorithms illustrates this framework, helping readers to quickly master and apply fundamental principles. Presented case studies cover: The execution (and feasibility) of techniques used to discover hidden knowledge by applying multimedia duplicate mining methods to large multimedia content Different types of image steganographic schemes based on vector quantization Techniques used to detect changes in human motion behavior and to classify different types of small-group motion behavior Useful for students, researchers, and professionals, this book consists of a variety of technical tutorials that offer an abundance of graphs and examples to powerfully convey the principles of multimedia security and steganography. Imparting the extensive experience of the contributors, this approach simplifies problems, helping readers more easily understand even the most complicated theories. It also enables them to uncover novel concepts involved in the

Online Library
karmaffine.com on
December 5, 2022 Free
Download Pdf

implementation of algorithms, which can lead to the discovery of new problems and new means of solving them.

Advances in Computing and Communications, Part II Mar 16 2021 This volume is the second part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 72 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are organized in topical sections on database and information systems; distributed software development; human computer interaction and interface; ICT; internet and Web computing; mobile computing; multi agent systems; multimedia and video systems; parallel and distributed algorithms; security, trust and privacy.

Algorithm of Steganography to Hiding Secret Information within an Image File Aug 09 2020 Studienarbeit aus dem Jahr 2014 im Fachbereich Informatik - Theoretische Informatik, , Sprache: Deutsch, Abstract: As the modern world growing fast, the new technologies has been developed with fast rate and the techniques of sending and receiving and displaying the secret information especially in public society or society places has faced many problems or challenges and has received more attention toward these modes of communication. Therefore, different types or methods have been proposed so far for hiding secret information within different types of cover medium. In this paper, the information is hiding inside an image file which acts as cover medium for secret information. There are two ways or methods for this process i.e. Encryption and decryption. There are two algorithms have been proposed for embedding or extracting the secret or hidden information which used the Steganography technique which is again the most popular technique now a days for hiding information within different cover medium. In this paper, we are using image file as a cover

Online Library

karmaffine.com on

December 5, 2022 Free

Download Pdf

medium.

Digital Media Steganography May 18 2021 The common use of the Internet and cloud services in transmission of large amounts of data over open networks and insecure channels, exposes that private and secret data to serious situations. Ensuring the information transmission over the Internet is safe and secure has become crucial, consequently information security has become one of the most important issues of human communities because of increased data transmission over social networks. *Digital Media Steganography: Principles, Algorithms, and Advances* covers fundamental theories and algorithms for practical design, while providing a comprehensive overview of the most advanced methodologies and modern techniques in the field of steganography. The topics covered present a collection of high-quality research works written in a simple manner by world-renowned leaders in the field dealing with specific research problems. It presents the state-of-the-art as well as the most recent trends in digital media steganography. Covers fundamental theories and algorithms for practical design which form the basis of modern digital media steganography Provides new theoretical breakthroughs and a number of modern techniques in steganography Presents the latest advances in digital media steganography such as using deep learning and artificial neural network as well as Quantum Steganography