Data Hiding Exposing Concealed Data In Multimedia Operating Systems Mobile Devices And Network Protocols

Second International Workshop, IH'98, Portland, Oregon, USA, April 14–17, 1998, Proceedings
Security in Computing and Communications
Third International Symposium, SSCC 2015, Kochi, India, August 10-13, 2015. Proceedings
Defending IoT Infrastructures with the Raspberry Pi
Non-Imaging Microwave and Millimetre-Wave Sensors for Concealed Object Detection
A Practical Approach to Investigation and Defense
Hacking Web Apps
Intelligent Multi-Modal Data Processing
Threats and Countermeasures
Hiding Behind the Keyboard
Pre-Incident Indicators of Terrorist Incidents
Computer Forensics InfoSec Pro Guide
Rage
Principles, Algorithms, and Advances
A Practical Guide
International Conference on Innovative Computing and Communications
Malware Forensics
A Data Analytics Approach
Fraud and Fraud Detection, + Website
Analyzing and Troubleshooting Network Traffic
Social Transformation – Digital Way
Memory Detection
52nd Annual Convention of the Computer Society of India, CSI 2017, Kolkata, India, January 19-21, 2018, Revised Selected Papers
Integrating Python with Leading Computer Forensics Platforms
Prophecy of Light - Unleashed
Monitoring and Detecting Nefarious Behavior in Real Time
Proceedings of ICICC 2021, Volume 3
Multi-staged Attacks Driven by Exploits and Malware
Investigation, Analysis, and Mobile Security for Google Android
ECIW 2013
Detecting and Preventing Web Application Security Problems
Digital Media Steganography
Theory and Application of the Concealed Information Test
Mobile Data Loss
Digital Forensics Field Guides
The Wireshark Field Guide
A Workbench for Inventing and Sharing Digital Forensic Technology
Data Hiding

HUERTA BROCK

Syngress
This is a print on demand edition of a hard to find publication. Explores whether sufficient data exists to examine the temporal and spatial relationships that existed in terrorist group planning, and if so, could patterns of preparatory conduct be identified? About one-half of the terrorists resided, planned, and prepared for terrorism relatively close to their eventual target. The terrorist groups existed for 1,205 days from the first planning meeting to the date of the actual/planned terrorist incident. The planning process for specific acts began 2-3 months prior to the terrorist incident. This study examined selected terrorist groups/incidents in the U.S. from 1980-2002. It provides for the potential to identify patterns of conduct that might lead to intervention prior to the commission of the actual terrorist incidents. Illustrations.
Second International Workshop, IH'98, Portland, Oregon, USA, April 14–17, 1998, Proceedings Springer
Data HidingExposing Concealed Data in Multimedia, Operating Systems, Mobile Devices and Network ProtocolsNewnes
Security in Computing and Communications RJ Crayton
The open source nature of the platform has not only established a new direction for the industry, but enables a developer or forensic analyst to understand the device at the most fundamental level. Android Forensics covers an open source mobile device platform based on the Linux 2.6 kernel and managed by the Open Handset Alliance. The Android platform is a major source of digital forensic investigation and analysis. This book provides a thorough review of the Android platform including supported hardware devices, the structure of the Android development project and implementation of core services (wireless communication, data storage and other low-level

functions). Finally, it will focus on teaching readers how to apply actual forensic techniques to recover data. Ability to forensically acquire Android devices using the techniques outlined in the book Detailed information about Android applications needed for forensics investigations Important information about SQLite, a file based structured data storage relevant for both Android and many other platforms.

Third International Symposium, SSCC 2015, Kochi, India, August 10-13, 2015. Proceedings Elsevier

This book constitutes the refereed proceedings of the 52nd Annual Convention of the Computer Society of India, CSI 2017, held in Kolkata, India, in January 2018. The 59 revised papers presented were carefully reviewed and selected from 157 submissions. The theme of CSI 2017, Social Transformation – Digital Way, was selected to highlight the importance of technology for both central and state governments at their respective levels to achieve doorstep connectivity with its citizens. The papers are organized in the following topical sections: Signal processing, microwave and communication engineering; circuits and systems; data science and data analytics; bio computing; social computing; mobile, nano, quantum computing; data mining; security and forensics; digital image processing; and computational intelligence.

Defending IoT Infrastructures with the Raspberry Pi Springer

Cyber-crime increasingly impacts both the online and offline world, and targeted attacks play a significant role in disrupting services in both. Targeted attacks are those that are aimed at a particular individual, group, or type of site or service. Unlike worms and viruses that usually attack indiscriminately, targeted attacks involve intelligence-gathering and planning to a degree that drastically changes its profile. Individuals, corporations, and even governments are facing new threats from targeted attacks. Targeted Cyber Attacks examines real-world examples of directed attacks and provides insight into what techniques and resources are used to stage these attacks so that you can counter them more effectively. A well-structured introduction into the world of targeted cyber-attacks Includes analysis of real-world attacks Written by cyber-security researchers and experts

Non-Imaging Microwave and Millimetre-Wave Sensors for Concealed Object Detection Taylor & Francis

This book constitutes the proceedings of the satellite workshops held around the 18th International Conference on Applied Cryptography and Network Security, ACNS 2020, in Rome, Italy, in October 2020. The 31 papers presented in this volume were carefully reviewed and selected from 65 submissions. They stem from the following workshops: AIBlock 2020: Second International Workshop on Application Intelligence and Blockchain Security AIHWS 2020: First International Workshop on Artificial Intelligence in Hardware Security AIoTS 2020: Second International Workshop on Artificial Intelligence and Industrial Internet-of-Things Security Cloud S&P 2020: Second International Workshop on Cloud Security and Privacy SCI 2020: First International Workshop on Secure Cryptographic Implementation SecMT 2020: First International Workshop on Security in Mobile Technologies SiMLA 2020: Second International Workshop on Security in Machine Learning and its Applications

A Practical Approach to Investigation and Defense Newnes

The Wireshark Field Guide provides hackers, pen testers, and network administrators with practical guidance on capturing and interactively browsing computer network traffic. Wireshark is the world's foremost network protocol analyzer, with a rich feature set that includes deep inspection of hundreds of protocols, live capture, offline analysis and many other features. The Wireshark Field Guide covers the installation, configuration and use of this powerful multi-platform tool. The book give readers the hands-on skills to be more productive with Wireshark as they drill down into the information contained in real-time network traffic. Readers will learn the fundamentals of packet capture and inspection, the use of color codes and filters, deep analysis, including probes and taps, and much more. The Wireshark Field Guide is an indispensable companion for network technicians, operators, and engineers. Learn the fundamentals of using Wireshark in a concise field manual Quickly create functional filters that will allow you to get to work quickly on solving problems Understand the myriad of options and the deep functionality of Wireshark Solve common network problems Learn some advanced features, methods and helpful ways to work more quickly and efficiently

Hacking Web Apps Syngress

Rage is an unprecedented and intimate tour de force of new reporting on the Trump presidency facing a global pandemic, economic disaster and racial unrest. Woodward, the #1 international bestselling author of Fear: Trump in the White House, has uncovered the precise moment the president was warned that the Covid-19 epidemic would be the biggest national security threat to his presidency. In dramatic detail, Woodward takes readers into the Oval Office as Trump's head pops up when he is told in January 2020 that the pandemic could reach the scale of the 1918 Spanish Flu that killed 675,000 Americans. In 17 on-the-record interviews with Woodward over seven volatile months—an utterly vivid window into Trump's mind—the president provides a self-portrait that is part denial and part combative interchange mixed with surprising moments of doubt as he glimpses the perils in the presidency and what he calls the "dynamite behind every door." At key decision points, Rage shows how Trump's responses to the crises of 2020 were rooted in the instincts, habits and style he developed during his first three years as president. Revisiting the earliest days of the Trump presidency, Rage reveals how Secretary of Defense James Mattis, Secretary of State Rex Tillerson and Director of National Intelligence Dan Coats struggled to keep the country safe as the president dismantled any semblance of collegial national security decision making. Rage draws from hundreds of hours of interviews with firsthand witnesses as well as participants' notes, emails, diaries, calendars and confidential documents. Woodward obtained 25 never-seen personal letters exchanged between Trump and North Korean leader Kim Jong Un, who describes the bond between the two leaders as out of a "fantasy film." Trump insists to Woodward he will triumph over Covid-19 and the economic calamity. "Don't worry about it, Bob. Okay?" Trump told the author in July. "Don't worry about it. We'll get to do another book. You'll find I was right."

Intelligent Multi-Modal Data Processing Apress

Malware Forensics: Investigating and Analyzing Malicious Code covers the complete process of responding to a malicious code incident. Written by authors who have investigated and prosecuted federal malware cases, this book deals with the emerging and evolving field of live forensics, where investigators examine a computer system to collect and preserve critical live data that may be lost if the system is shut down. Unlike other forensic texts that discuss live forensics on a particular operating system, or in a generic context, this book emphasizes a live forensics and evidence collection methodology on both

Windows and Linux operating systems in the context of identifying and capturing malicious code and evidence of its effect on the compromised system. It is the first book detailing how to perform live forensic techniques on malicious code. The book gives deep coverage on the tools and techniques of conducting runtime behavioral malware analysis (such as file, registry, network and port monitoring) and static code analysis (such as file identification and profiling, strings discovery, armoring/packing detection, disassembling, debugging), and more. It explores over 150 different tools for malware incident response and analysis, including forensic tools for preserving and analyzing computer memory. Readers from all educational and technical backgrounds will benefit from the clear and concise explanations of the applicable legal case law and statutes covered in every chapter. In addition to the technical topics discussed, this book also offers critical legal considerations addressing the legal ramifications and requirements governing the subject matter. This book is intended for system administrators, information security professionals, network personnel, forensic examiners, attorneys, and law enforcement working with the inner-workings of computer memory and malicious code. * Winner of Best Book Bejtlich read in 2008! * http://taosecurity.blogspot.com/2008/12/best-book-bejtlich-read-in-2008.html * Authors have investigated and prosecuted federal malware cases, which allows them to provide unparalleled insight to the reader. * First book to detail how to perform "live forensic" techniques on malicous code. * In addition to the technical topics discussed, this book also offers critical legal considerations addressing the legal ramifications and requirements governing the subject matter

Threats and Countermeasures Newnes SpringerBriefs present concise summaries of cutting-edge research and practical applications across a wide spectrum of fields. Featuring compact volumes of 50 to 100 pages (approximately 20,000- 40,000 words), the series covers a range of content from professional to academic. Briefs allow authors to present their ideas and readers to absorb them with minimal time investment. As part of Springer's eBook collection, SpringBriefs are published to millions of users worldwide. Information/Data Leakage poses a serious threat to companies and organizations, as the number of leakage incidents and the cost they inflict continues to increase. Whether caused by malicious intent, or an inadvertent mistake, data loss can diminish a company's brand, reduce shareholder value, and damage the company's goodwill and reputation. This book aims to provide a structural and comprehensive overview of the practical solutions and current research in the DLP domain. This is the first comprehensive book that is dedicated entirely to the field of data leakage and covers all important challenges and techniques to mitigate them. Its informative, factual pages will provide researchers, students and practitioners in the industry with a comprehensive, yet concise and convenient reference source to this fascinating field. We have grouped existing solutions into different categories based on a described taxonomy. The presented taxonomy characterizes DLP solutions according to various aspects such as: leakage source, data state, leakage channel, deployment scheme, preventive/detective approaches, and the action upon leakage. In the commercial part we review solutions of the leading DLP market players based on professional research reports and material obtained from the websites of the vendors. In the academic part we cluster the academic work according to the nature of the leakage and protection into various categories. Finally, we describe main data leakage scenarios and present for each scenario the most relevant and applicable solution or approach that will mitigate and reduce the likelihood and/or impact of the leakage scenario.

Hiding Behind the Keyboard Syngress The mid-1990ssaw an exciting convergenceof a number of dieren t information protection technologies, whose theme was the hiding (as opposed to encryption) of information. Copyright marking schemes are about hiding either copyright notices or individual serial numbers imperceptibly in digital audio and video, as a component in intellectual property protection systems; anonymous c- munication is another area of rapid growth, with people designing systems for electronic cash, digital elections, and privacy in mobile communications; se- rity researchers are also interested in 'stray' communication channels, such as those which arise via shared resourcesin operating systems or the physical le- age of information through radio frequency emissions; and n ally, many workers in these elds drew inspiration from 'classical' hidden communication methods such as steganography and spread-spectrum radio. The rst international workshop on this new emergent discipline of inf- mation hiding was organised by Ross Anderson and held at the Isaac Newton Institute, Cambridge, from the 30th May to the 1st June 1996, and was judged by attendees to be a successful and signi cant event. In addition to a number of research papers, we had invited talks from David Kahn on the history of steganography and from Gus Simmons on the history of subliminal channels. We also had a number of discussion sessions, culminating in a series of votes on common terms and de nitions. These papers and talks, together with minutes of the discussion, can be found in the proceedings, which are published in this series as Volume 1174.

McGraw Hill Professional
Security Smarts for the Self-Guided IT Professional Find out how to excel in the field of computer forensics investigations. Learn what it takes to transition from an IT professional to a computer forensic examiner in the private sector. Written by a Certified Information Systems Security Professional, Computer Forensics: InfoSec Pro Guide is filled with real-world case studies that demonstrate the concepts covered in the book. You'll learn how to set up a forensics lab, select hardware and software, choose forensic imaging procedures, test your tools, capture evidence from different sources, follow a sound investigative process, safely store evidence, and verify your findings. Best practices for documenting your results, preparing reports, and presenting evidence in court are also covered in this detailed resource. Computer Forensics: InfoSec Pro Guide features: Lingo—Common security terms defined so that you're in the know on the job IMHO—Frank and relevant opinions based on the author's years of industry experience Budget Note—Tips for getting security technologies and processes into your organization's budget In Actual Practice—Exceptions to the rules of security explained in real-world contexts Your Plan—Customizable checklists you can use on the job now Into Action—Tips on how, why, and when to apply new skills and techniques at work

Pre-Incident Indicators of Terrorist Incidents Academic Conferences Limited "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 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®.

Computer Forensics InfoSec Pro Guide McGraw Hill Professional

The mobile threat landscape is evolving bringing about new forms of data loss. No longer can organizations rely on security policies designed during the PC era. Mobile is different and therefore requires a revised approach to countermeasures to mitigate data loss. Understanding these differences is fundamental to creating a new defense-in-depth strategy designed for mobile. Mobile Data Loss: Threats & Countermeasures reviews the mobile threat landscape using a hacker mind-set to outline risks and attack vectors that include malware, risky apps, operating system compromises, network attacks, and user behaviours. This provides the basis for then outlining countermeasures for defining a holistic mobile security methodology that encompasses proactive protections, response mechanisms, live monitoring, and incident response. Designing a comprehensive mobile security strategy is key. Mobile Data Loss: Threats & Countermeasures outlines the threats and strategies for protecting devices from a plethora of data loss vectors. Outlines differences in mobile devices versus PCs Reviews mobile threat landscape using a hacker mind-set to outline risks and attack vectors Summarizes the tools and techniques for implementing enterprise countermeasures Maps mobile to common security compliances including PCI, HIPAA, and CJIS Provides a defense-in-depth methodology and strategy for enterprises to minimize data loss

Rage IBM Redbooks

Hiding Behind the Keyboard: Uncovering Covert Communication Methods with Forensic Analysis exposes the latest electronic covert communication techniques used by cybercriminals, along with the needed investigative methods for identifying them. The book shows how to use the Internet for legitimate covert communication, while giving investigators the information they need for detecting cybercriminals who attempt to hide their true identity. Intended for practitioners and investigators, the book offers concrete examples on how to communicate securely, serving as an ideal reference for those who truly need protection, as well as those who investigate cybercriminals. Covers high-level strategies, what they can achieve, and how to implement them Shows discovery and mitigation methods using examples, court cases, and more Explores how social media sites and gaming technologies can be used for illicit communications activities Explores the currently in-use technologies such as TAILS and TOR that help with keeping anonymous online

Principles, Algorithms, and Advances Jones & Bartlett Publishers

HTML5 -- HTML injection & cross-site scripting (XSS) -- Cross-site request forgery (CSRF) -- SQL injection & data store manipulation -- Breaking authentication schemes -- Abusing design deficiencies -- Leveraging platform weaknesses -- Browser & privacy attacks.

A Practical Guide Springer

Traditional techniques for detecting deception, such as the 'lie-detector test' (or polygraph), are based upon the idea that lying is associated with stress. However, it is possible that people telling the truth will experience stress, whereas not all liars will. Because of this, the validity of such methods is questionable. As an alternative, a knowledge-based approach known as the 'Concealed Information Test' has been developed which investigates whether the examinee recognizes secret information - for example a crime suspect recognizing critical crime details that only the culprit could know. The Concealed Information Test has been supported by decades of research, and is used widely in Japan. This is the first book to focus on this exciting approach and will be of interest to law enforcement agencies and academics and professionals in psychology, criminology, policing and law.

International Conference on Innovative Computing and Communications Academic Press

A comprehensive review of the most recent applications of intelligent multi-modal data processing Intelligent Multi-Modal Data Processing contains a review of the most recent applications of data processing. The Editors and contributors – noted experts on the topic – offer a review of the new and challenging areas of multimedia data processing as well as state-of-the-art algorithms to solve the problems in an intelligent manner. The text provides a clear understanding of the real-life implementation of different statistical theories and explains how to implement various statistical theories. Intelligent Multi-Modal Data Processing is an authoritative guide for developing innovative research ideas for interdisciplinary research practices. Designed as a practical resource, the book

contains tables to compare statistical analysis results of a novel technique to that of the state-of-the-art techniques and illustrations in the form of algorithms to establish a pre-processing and/or post-processing technique for model building. The book also contains images that show the efficiency of the algorithm on standard data set. This important book: Includes an in-depth analysis of the state-of-the-art applications of signal and data processing Contains contributions from noted experts in the field Offers information on hybrid differential evolution for optimal multilevel image thresholding Presents a fuzzy decision based multi-objective evolutionary method for video summarisation Written for students of technology and management, computer scientists and professionals in information technology, Intelligent Multi-Modal Data Processing brings together in one volume the range of multi-modal data processing. **Malware Forensics** W. W. Norton & Company

Integrating Python with Leading Computer Forensic Platforms takes a definitive look at how and why the integration of Python advances the field of digital forensics. In addition, the book includes practical, never seen Python examples that can be immediately put to use. Noted author Chet Hosmer demonstrates how to extend four key Forensic Platforms using Python, including EnCase by Guidance Software, MPE+ by AccessData, The Open Source Autopsy/SleuthKit by Brian Carrier and WetStone Technologies, and Live Acquisition and Triage Tool US-LATT. This book is for practitioners, forensic investigators, educators, students, private investigators, or anyone advancing digital forensics for investigating cybercrime. Additionally, the open source availability of the examples allows for sharing and growth within the industry. This book is the first to provide details on how to directly integrate Python into key forensic platforms. Provides hands-on tools, code samples, detailed instruction, and documentation that can be immediately put to use Shows how to integrate Python with popular digital forensic platforms, including EnCase, MPE+, The Open Source Autopsy/SleuthKit, and US-LATT Presents complete coverage of how to use Open Source Python scripts to extend and modify popular digital forensic Platforms **A Data Analytics Approach** Syngress This book constitutes the refereed post-conference proceedings of the Fourth International Conference on IoT as a Service, IoTaaS 2018, which took place in Xi'an, China, in November 2018. The 50 revised full papers were carefully reviewed and selected from 83 submissions. The technical track present IoT-based services in various applications. In addition, there are three workshops: international workshop on edge computing for 5G/IoT, international workshop on green communications for internet of things, and international workshop on space-based internet of things.