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Tarun Vashishth

Executing Windows Command Line Investigations Chet Hosmer,Joshua Bartolomie,Rosanne Pelli,2016-06-11 The book Executing Windows Command Line Investigations targets the needs of cyber security practitioners who focus on digital forensics and incident response. These are the individuals who are ultimately responsible for executing critical tasks such as incident response; forensic analysis and triage; damage assessments; espionage or other criminal investigations; malware analysis; and responding to human resource violations. The authors lead readers through the importance of Windows CLI, as well as optimal configuration and usage. Readers will then learn the importance of maintaining evidentiary integrity, evidence volatility, and gain appropriate insight into methodologies that limit the potential of inadvertently destroying or otherwise altering evidence. Next, readers will be given an overview on how to use the proprietary software that accompanies the book as a download from the companion website. This software, called Proactive Incident Response Command Shell (PIRCS), developed by Harris Corporation provides an interface similar to that of a Windows CLI that automates evidentiary chain of custody and reduces human error and documentation gaps during incident response. Includes a free download of the Proactive Incident Response Command Shell (PIRCS) software Learn about the technical details of Windows CLI so you can directly manage every aspect of incident response evidence acquisition and triage, while maintaining

evidentiary integrity

Digital Forensics with Open Source Tools Cory Altheide,Harlan
Carvey,2011-03-29 Digital Forensics with Open Source Tools is the definitive
book on investigating and analyzing computer systems and media using open
source tools. The book is a technical procedural guide, and explains the use
of open source tools on Mac, Linux and Windows systems as a platform for
performing computer forensics. Both well-known and novel forensic methods are
demonstrated using command-line and graphical open source computer forensic
tools for examining a wide range of target systems and artifacts. Written by
world-renowned forensic practitioners, this book uses the most current
examination and analysis techniques in the field. It consists of 9 chapters
that cover a range of topics such as the open source examination platform;
disk and file system analysis; Windows systems and artifacts; Linux systems
and artifacts; Mac OS X systems and artifacts; Internet artifacts; and
automating analysis and extending capabilities. The book lends itself to use
by students and those entering the field who do not have means to purchase
new tools for different investigations. This book will appeal to forensic
practitioners from areas including incident response teams and computer
forensic investigators; forensic technicians from legal, audit, and
consulting firms; and law enforcement agencies. Written by world-renowned
forensic practitioners Details core concepts and techniques of forensic file
system analysis Covers analysis of artifacts from the Windows, Mac, and Linux

operating systems

  Mastering Windows Network Forensics and Investigation Steven Anson,Steve
Bunting,Ryan Johnson,Scott Pearson,2012-07-30 An authoritative guide to
investigating high-technologycrimes Internet crime is seemingly ever on the
rise, making the needfor a comprehensive resource on how to investigate these
crimeseven more dire. This professional-level book--aimed at lawenforcement
personnel, prosecutors, and corporateinvestigators--provides you with the
training you need in order toacquire the sophisticated skills and software
solutions to stay onestep ahead of computer criminals. Specifies the
techniques needed to investigate, analyze, anddocument a criminal act on a
Windows computer or network Places a special emphasis on how to thoroughly
investigatecriminal activity and now just perform the initial response Walks
you through ways to present technically complicatedmaterial in simple terms
that will hold up in court Features content fully updated for Windows Server
2008 R2 andWindows 7 Covers the emerging field of Windows Mobile forensics
Also included is a classroom support package to ensure academicadoption,
Mastering Windows Network Forensics and Investigation,2nd Edition offers help
for investigating high-technologycrimes.

  FISMA Compliance Handbook Laura P. Taylor,2013-08-20 This comprehensive
book instructs IT managers to adhere to federally mandated compliance
requirements. FISMA Compliance Handbook Second Edition explains what the
requirements are for FISMA compliance and why FISMA compliance is mandated by

federal law. The evolution of Certification and Accreditation is discussed. This book walks the reader through the entire FISMA compliance process and includes guidance on how to manage a FISMA compliance project from start to finish. The book has chapters for all FISMA compliance deliverables and includes information on how to conduct a FISMA compliant security assessment. Various topics discussed in this book include the NIST Risk Management Framework, how to characterize the sensitivity level of your system, contingency plan, system security plan development, security awareness training, privacy impact assessments, security assessments and more. Readers will learn how to obtain an Authority to Operate for an information system and what actions to take in regards to vulnerabilities and audit findings. FISMA Compliance Handbook Second Edition, also includes all-new coverage of federal cloud computing compliance from author Laura Taylor, the federal government's technical lead for FedRAMP, the government program used to assess and authorize cloud products and services. Includes new information on cloud computing compliance from Laura Taylor, the federal government's technical lead for FedRAMP Includes coverage for both corporate and government IT managers Learn how to prepare for, perform, and document FISMA compliance projects This book is used by various colleges and universities in information security and MBA curriculums

  Policing Digital Crime Robin Bryant,2016-04-22 By its very nature digital crime may present a number of specific detection and investigative

challenges. The use of steganography to hide child abuse images for example, can pose the kind of technical and legislative problems inconceivable just two decades ago. The volatile nature of much digital evidence can also pose problems, particularly in terms of the actions of the 'first officer on the scene'. There are also concerns over the depth of understanding that 'generic' police investigators may have concerning the possible value (or even existence) of digitally based evidence. Furthermore, although it is perhaps a cliché to claim that digital crime (and cybercrime in particular) respects no national boundaries, it is certainly the case that a significant proportion of investigations are likely to involve multinational cooperation, with all the complexities that follow from this. This groundbreaking volume offers a theoretical perspective on the policing of digital crime in the western world. Using numerous case-study examples to illustrate the theoretical material introduced this volume examine the organisational context for policing digital crime as well as crime prevention and detection. This work is a must-read for all academics, police practitioners and investigators working in the field of digital crime.

  Messenger & Mail Hacking + CD ,

  Malware Forensics Cameron H. Malin,Eoghan Casey,James M. Aquilina,2008-08-08 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

  Seven Deadliest USB Attacks Brian Anderson,Barbara Anderson,2010-06-03 Seven Deadliest USB Attacks provides a comprehensive view of the most serious types of Universal Serial Bus (USB) attacks. While the book focuses on Windows systems, Mac, Linux, and UNIX systems are equally susceptible to similar attacks. If you need to keep up with the latest hacks, attacks, and exploits effecting USB technology, then this book is for you. This book pinpoints the most dangerous hacks and exploits specific to USB, laying out the anatomy of these attacks including how to make your system more secure. You will discover the best ways to defend against these vicious hacks with step-by-step instruction and learn techniques to make your computer and network impenetrable. The attacks outlined in this book are intended for individuals with moderate Microsoft Windows proficiency. The book provides the tools, tricks, and detailed instructions necessary to reconstruct and

mitigate these activities while peering into the risks and future aspects surrounding the respective technologies. There are seven chapters that cover the following: USB Hacksaw; the USB Switchblade; viruses and malicious codes; USB-based heap overflow; the evolution of forensics in computer security; pod slurping; and the human element of security, including the risks, rewards, and controversy surrounding social-engineering engagements. This book was written to target a vast audience including students, technical staff, business leaders, or anyone seeking to understand fully the removable-media risk for Windows systems. It will be a valuable resource for information security professionals of all levels, as well as web application developers and recreational hackers. Knowledge is power, find out about the most dominant attacks currently waging war on computers and networks globally Discover the best ways to defend against these vicious attacks; step-by-step instruction shows you how Institute countermeasures, don't be caught defenseless again, and learn techniques to make your computer and network impenetrable

  Data Hiding Techniques in Windows OS Nihad Ahmad Hassan,Rami Hijazi,2016-09-08 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®.

  Fundamentals of Digital Forensics Joakim Kävrestad,2018-07-31 This hands-on textbook provides an accessible introduction to the fundamentals of digital forensics. The text contains thorough coverage of the theoretical foundations, explaining what computer forensics is, what it can do, and also

what it can't. A particular focus is presented on establishing sound forensic thinking and methodology, supported by practical guidance on performing typical tasks and using common forensic tools. Emphasis is also placed on universal principles, as opposed to content unique to specific legislation in individual countries. Topics and features: introduces the fundamental concepts in digital forensics, and the steps involved in a forensic examination in a digital environment; discusses the nature of what cybercrime is, and how digital evidence can be of use during criminal investigations into such crimes; offers a practical overview of common practices for cracking encrypted data; reviews key artifacts that have proven to be important in several cases, highlighting where to find these and how to correctly interpret them; presents a survey of various different search techniques, and several forensic tools that are available for free; examines the functions of AccessData Forensic Toolkit and Registry Viewer; proposes methods for analyzing applications, timelining, determining the identity of the computer user, and deducing if the computer was remote controlled; describes the central concepts relating to computer memory management, and how to perform different types of memory analysis using the open source tool Volatility; provides review questions and practice tasks at the end of most chapters, and supporting video lectures on YouTube. This easy-to-follow primer is an essential resource for students of computer forensics, and will also serve as a valuable reference for practitioners seeking instruction on

performing forensic examinations in law enforcement or in the private sector.

  Cyber Operations Mike O'Leary,2019-03-01 Know how to set up, defend, and attack computer networks with this revised and expanded second edition. You will learn to configure your network from the ground up, beginning with developing your own private virtual test environment, then setting up your own DNS server and AD infrastructure. You will continue with more advanced network services, web servers, and database servers and you will end by building your own web applications servers, including WordPress and Joomla!. Systems from 2011 through 2017 are covered, including Windows 7, Windows 8, Windows 10, Windows Server 2012, and Windows Server 2016 as well as a range of Linux distributions, including Ubuntu, CentOS, Mint, and OpenSUSE. Key defensive techniques are integrated throughout and you will develop situational awareness of your network and build a complete defensive infrastructure, including log servers, network firewalls, web application firewalls, and intrusion detection systems. Of course, you cannot truly understand how to defend a network if you do not know how to attack it, so you will attack your test systems in a variety of ways. You will learn about Metasploit, browser attacks, privilege escalation, pass-the-hash attacks, malware, man-in-the-middle attacks, database attacks, and web application attacks. What You'll Learn Construct a testing laboratory to experiment with software and attack techniquesBuild realistic networks that include active directory, file servers, databases, web servers, and web applications such as

WordPress and Joomla!Manage networks remotely with tools, including PowerShell, WMI, and WinRMUse offensive tools such as Metasploit, Mimikatz, Veil, Burp Suite, and John the RipperExploit networks starting from malware and initial intrusion to privilege escalation through password cracking and persistence mechanismsDefend networks by developing operational awareness using auditd and Sysmon to analyze logs, and deploying defensive tools such as the Snort intrusion detection system, IPFire firewalls, and ModSecurity web application firewalls Who This Book Is For This study guide is intended for everyone involved in or interested in cybersecurity operations (e.g., cybersecurity professionals, IT professionals, business professionals, and students)

  <u>Malware Forensics Field Guide for Windows Systems</u> Cameron H. Malin,Eoghan Casey,James M. Aquilina,2012-05-11 Malware Forensics Field Guide for Windows Systems is a handy reference that shows students the essential tools needed to do computer forensics analysis at the crime scene. It is part of Syngress Digital Forensics Field Guides, a series of companions for any digital and computer forensic student, investigator or analyst. Each Guide is a toolkit, with checklists for specific tasks, case studies of difficult situations, and expert analyst tips that will aid in recovering data from digital media that will be used in criminal prosecution. This book collects data from all methods of electronic data storage and transfer devices, including computers, laptops, PDAs and the images, spreadsheets and other types of files stored on

these devices. It is specific for Windows-based systems, the largest running OS in the world. The authors are world-renowned leaders in investigating and analyzing malicious code. Chapters cover malware incident response - volatile data collection and examination on a live Windows system; analysis of physical and process memory dumps for malware artifacts; post-mortem forensics - discovering and extracting malware and associated artifacts from Windows systems; legal considerations; file identification and profiling initial analysis of a suspect file on a Windows system; and analysis of a suspect program. This field guide is intended for computer forensic investigators, analysts, and specialists. A condensed hand-held guide complete with on-the-job tasks and checklists Specific for Windows-based systems, the largest running OS in the world Authors are world-renowned leaders in investigating and analyzing malicious code

   Hiding Behind the Keyboard Brett Shavers,John Bair,2016-03-14 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

  Digital Privacy and Security Using Windows Nihad Hassan,Rami Hijazi,2017-07-02 Use this hands-on guide to understand the ever growing and complex world of digital security. Learn how to protect yourself from digital crime, secure your communications, and become anonymous online using sophisticated yet practical tools and techniques. This book teaches you how to secure your online identity and personal devices, encrypt your digital data and online communications, protect cloud data and Internet of Things (IoT), mitigate social engineering attacks, keep your purchases secret, and conceal your digital footprint. You will understand best practices to harden your operating system and delete digital traces using the most widely used operating system, Windows. Digital Privacy and Security Using Windows offers a comprehensive list of practical digital privacy tutorials in addition to being a complete repository of free online resources and tools assembled in one place. The book helps you build a robust defense from electronic crime and corporate surveillance. It covers general principles of digital privacy and how to configure and use various security applications to maintain your

privacy, such as TOR, VPN, and BitLocker. You will learn to encrypt email communications using Gpg4win and Thunderbird. What You'll Learn Know the various parties interested in having your private data Differentiate between government and corporate surveillance, and the motivations behind each one Understand how online tracking works technically Protect digital data, secure online communications, and become anonymous online Cover and destroy your digital traces using Windows OS Secure your data in transit and at rest Be aware of cyber security risks and countermeasures Who This Book Is For End users, information security professionals, management, infosec students

  Cyber Forensics Up and Running Tarun Vashishth,2023-12-12 Empowering you to investigate, analyze, and secure the digital realm KEY FEATURES ● Comprehensive coverage of all digital forensics concepts. ● Real-world case studies and examples to illustrate techniques. ● Step-by-step instructions for setting up and using essential forensic tools. ● In-depth exploration of volatile and non-volatile data analysis. DESCRIPTION Digital forensics is the art and science of extracting the hidden truth and this book is your hands-on companion, bringing the world of digital forensics to life. Starting with the core principles of digital forensics, the book explores the significance of various case types, the interconnectedness of the field with cybersecurity, and the ever-expanding digital world's challenges. As you progress, you will explore data acquisition, image formats, digital evidence preservation, file carving, metadata extraction, and the practical use of essential forensic

tools like HxD, The Sleuth Kit, Autopsy, Volatility, and PowerForensics. The book offers step-by-step instructions, real-world case studies, and practical examples, ensuring that beginners can confidently set up and use forensic tools. Experienced professionals, on the other hand, will find advanced insights into memory analysis, network forensics, anti-forensic techniques, and more. This book empowers you to become a digital detective, capable of uncovering data secrets, investigating networks, exploring volatile and non-volatile evidence, and understanding the intricacies of modern browsers and emails. WHAT YOU WILL LEARN ● Learn how to set up and use digital forensic tools, including virtual environments. ● Learn about live forensics, incident response, and timeline examination. ● In-depth exploration of Windows Registry and USBs. ● Network forensics, PCAPs, and malware scenarios. ● Memory forensics, malware detection, and file carving. ● Advance tools like PowerForensics and Autopsy. WHO THIS BOOK IS FOR Whether you are a tech-savvy detective, a curious student, or a seasoned cybersecurity pro seeking to amplify your skillset. Network admins, law enforcement officers, incident responders, aspiring analysts, and even legal professionals will find invaluable tools and techniques within these pages. TABLE OF CONTENTS 1. Introduction to Essential Concepts of Digital Forensics 2. Digital Forensics Lab Setup 3. Data Collection: Volatile and Non-Volatile 4. Forensics Analysis: Live Response 5. File System and Log Analysis 6. Windows Registry and Artifacts 7. Network Data Collection and Analysis 8. Memory Forensics:

Techniques and Tools 9. Browser and Email Forensics 10. Advanced Forensics Tools, Commands and Methods 11. Anti-Digital Forensics Techniques and Methods

Windows Forensics Cookbook Oleg Skulkin,Scar de Courcier,2017-08-04 Maximize the power of Windows Forensics to perform highly effective forensic investigations About This Book Prepare and perform investigations using powerful tools for Windows, Collect and validate evidence from suspects and computers and uncover clues that are otherwise difficult Packed with powerful recipes to perform highly effective field investigations Who This Book Is For If you are a forensic analyst or incident response professional who wants to perform computer forensics investigations for the Windows platform and expand your took kit, then this book is for you. What You Will Learn Understand the challenges of acquiring evidence from Windows systems and overcome them Acquire and analyze Windows memory and drive data with modern forensic tools. Extract and analyze data from Windows file systems, shadow copies and the registry Understand the main Windows system artifacts and learn how to parse data from them using forensic tools See a forensic analysis of common web browsers, mailboxes, and instant messenger services Discover how Windows 10 differs from previous versions and how to overcome the specific challenges it presents Create a graphical timeline and visualize data, which can then be incorporated into the final report Troubleshoot issues that arise while performing Windows forensics In Detail Windows Forensics Cookbook provides recipes to overcome forensic challenges and helps you carry out effective

investigations easily on a Windows platform. You will begin with a refresher on digital forensics and evidence acquisition, which will help you to understand the challenges faced while acquiring evidence from Windows systems. Next you will learn to acquire Windows memory data and analyze Windows systems with modern forensic tools. We also cover some more in-depth elements of forensic analysis, such as how to analyze data from Windows system artifacts, parse data from the most commonly-used web browsers and email services, and effectively report on digital forensic investigations. You will see how Windows 10 is different from previous versions and how you can overcome the specific challenges it brings. Finally, you will learn to troubleshoot issues that arise while performing digital forensic investigations. By the end of the book, you will be able to carry out forensics investigations efficiently. Style and approach This practical guide filled with hands-on, actionable recipes to detect, capture, and recover digital artifacts and deliver impeccable forensic outcomes.

Kinect Open Source Programming Secrets : Hacking the Kinect with OpenNI, NITE, and Java Andrew Davison,2012-04-18 Program Kinect to do awesome things using a unique selection of open source software! The Kinect motion-sensing device for the Xbox 360 and Windows became the world's fastest-selling consumer electronics device when it was released (8 million sold in its first 60 days) and won prestigious awards, such as Gaming Gadget of the Year. Now Kinect Open Source Programming Secrets lets YOU harness the Kinect's powerful

sensing capabilities for gaming, science, multimedia projects, and a mind-boggling array of other applications on platforms running Windows, Mac OS, and Linux. Dr. Andrew Davison, a user interface programming expert, delivers exclusive coverage of how to program the Kinect sensor with the Java wrappers for OpenNI and NITE, which are APIs created by PrimeSense, the primary developers of the Kinect's technology. Beginning with the basics--depth imaging, 3D point clouds, skeletal tracking, and hand gestures--the book examines many other topics, including Kinect gaming, FAAST-style gestures that aren't part of standard NITE, motion detection using OpenCV, how to create gesture-driven GUIs, accessing the Kinect's motor and accelerometer, and other tips and techniques. Inside: Free open source APIs to let you develop amazing Kinect hacks for commercial or private use Full coverage of depth detection, camera, and infrared imaging point clouds; Kinect gaming; 3D programming; gesture-based GUIs, and more Online access to detailed code examples on the author's web site, plus bonus chapters on speech recognition, beamforming, and other exotica From the Author Why Buy This Book? I can suggest four reasons for buying this book: It offers a unique choice of Kinect programming tools. It explains the official Java wrappers for those tools. It covers topics not found elsewhere. It provides depth, but with brevity. Unique Programming Tools This is the only book on programming the Kinect using the OpenNI library, NITE, and Java (as of April 2012, when this book went to press). Official Java Wrappers This is the only book that

explains the official Java wrappers for OpenNI and NITE (again, as of April 2012). By "official," I mean that these bindings were developed by PrimeSense. Obvious advantages of Java include object-orientation, cross-platform support, availability for free, and many people (including you, probably) knowing how to program with it. Most important, programming in Java gives you access to a massive number of libraries—for graphics, networking, and beyond—that can be linked to the Kinect without much effort. For example, I'll demonstrate how to use the Java 3D graphics library and the Java binding for the OpenCV computer vision package. The main drawback of using the PrimeSense Java wrappers is their lack of documentation. As I explain in Chapter 1, I had to decompile the libraries' JAR files, and work out the correspondences between the Java source and the somewhat better documented C++ OpenNI/NITE APIs. (This is why including Secrets in the book's title isn't too excessive.) A Wide Range of Topics This book covers programming topics not found elsewhere. I start off with the basics, of course, with chapters on depth, infrared, and RGB imaging, point clouds, skeletal user tracking, hand tracking, and gesture support. Moving beyond that, I cover several novel and unusual features, including the following: Kinect gaming based around a version of the classic Breakout video game. Controls for the Kinect motor, LED, and accelerometer, which are not part of the standard OpenNI API. In fact, their absence is often held up as a serious drawback of the API. It's actually quite easy to add these capabilities using a custom-

built USB driver. 3D graphics programming in the point cloud and skeletal tracking examples, using Java 3D. A computer vision example that demonstrates how to link the Kinect to the popular (and powerful) OpenCV library. The creation of new body gestures (inspired by the FAAST system), which are not part of the limited NITE repertoire. A new type of GUI component controlled by hand gesturing, illustrated with three examples: a button, dial, and slider. These components are controlled without the help of mouse or keyboard. Depth with Brevity This book describes a lot of complicated code but, unlike some rather hefty programming tomes, you won't find all the code tediously printed on these pages. Instead, you can download it from the book's website. In addition, I've been adding supplementary chapters to the website, including ones discussing speech recognition and the Kinect microphone array.

Breakthroughs in Digital Biometrics and Forensics Kevin Daimi,Guillermo Francia III,Luis Hernández Encinas,2022-10-14 This book focuses on a wide range of breakthroughs related to digital biometrics and forensics. The authors introduce the concepts, techniques, methods, approaches and trends needed by cybersecurity specialists and educators for keeping current their biometrics and forensics knowledge. Furthermore, the book provides a glimpse of future directions where biometrics and forensics techniques, policies, applications, and theories are headed. Topics include multimodal biometrics, soft biometrics, mobile biometrics, vehicle biometrics, vehicle forensics,

integrity verification of digital content, people identification, biometric-based cybercrime investigation, among others. The book is a rich collection of carefully selected and reviewed manuscripts written by diverse digital biometrics and forensics experts in the listed fields and edited by prominent biometrics and forensics researchers and specialists.

  <u>Fundamental Computing Forensics for Africa</u> Aamo Iorliam,2018-06-28 This book presents a general introduction to the computational aspects of forensic science, covering the different tools needed for forensic investigations, the importance of forensics and biometrics, and the use of Benford's law for biometrics and network traffic analysis. It specifically focuses on the application of these techniques in Africa, and how they can be of benefit in the investigation of crime in Nigeria in particular.

  Intelligent Algorithms in Software Engineering Radek Silhavy,2020-08-08 This book gathers the refereed proceedings of the Intelligent Algorithms in Software Engineering Section of the 9th Computer Science On-line Conference 2020 (CSOC 2020), held on-line in April 2020. Software engineering research and its applications to intelligent algorithms have now assumed an essential role in computer science research. In this book, modern research methods, together with applications of machine and statistical learning in software engineering research, are presented.

NirSoft Freeware: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. NirSoft Freeware : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a

bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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