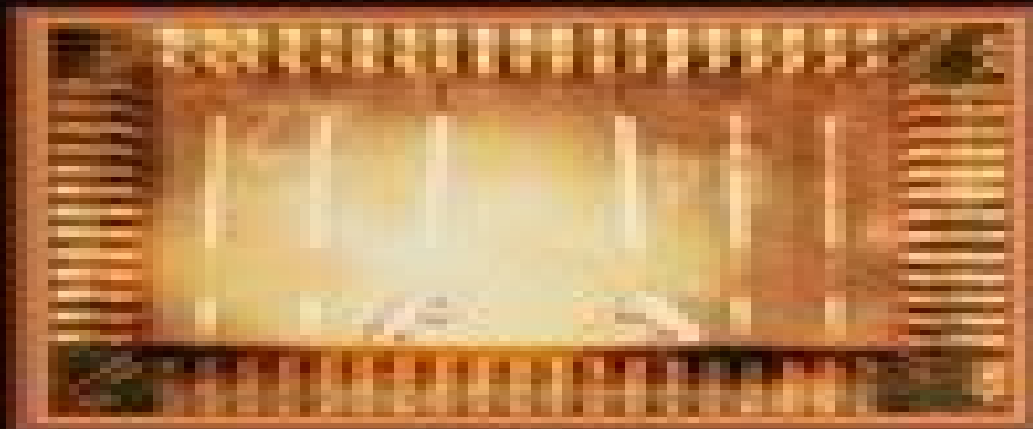


DIGITAL CRIME AND FORENSIC SCIENCE

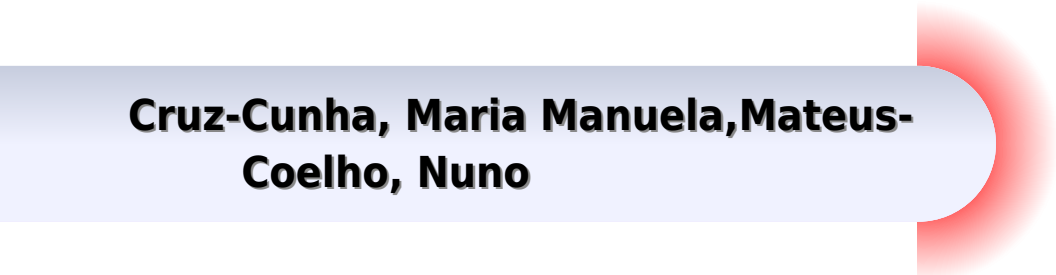


IN CYBERSPACE

Panagiotis Kanellis, Evangelos Kiontoreakis,
Nicholas Kolokotronis, Drakoulis Martakos

Digital Crime And Forensic Science In Cyberspace Na

**Cruz-Cunha, Maria Manuela, Mateus-
Coelho, Nuno**



Digital Crime And Forensic Science In Cyberspace Na:

Cyber Crime and Forensic Computing Gulshan Shrivastava, Deepak Gupta, Kavita Sharma, 2021-09-07 This book presents a comprehensive study of different tools and techniques available to perform network forensics. Also various aspects of network forensics are reviewed as well as related technologies and their limitations. This helps security practitioners and researchers in better understanding of the problem, current solution space and future research scope to detect and investigate various network intrusions against such attacks efficiently. Forensic computing is rapidly gaining importance since the amount of crime involving digital systems is steadily increasing. Furthermore, the area is still underdeveloped and poses many technical and legal challenges. The rapid development of the Internet over the past decade appeared to have facilitated an increase in the incidents of online attacks. There are many reasons which are motivating the attackers to be fearless in carrying out the attacks. For example, the speed with which an attack can be carried out, the anonymity provided by the medium, nature of medium where digital information is stolen without actually removing it, increased availability of potential victims and the global impact of the attacks are some of the aspects. Forensic analysis is performed at two different levels: Computer Forensics and Network Forensics. Computer forensics deals with the collection and analysis of data from computer systems, networks, communication streams and storage media in a manner admissible in a court of law. Network forensics deals with the capture, recording or analysis of network events in order to discover evidential information about the source of security attacks in a court of law. Network forensics is not another term for network security. It is an extended phase of network security as the data for forensic analysis are collected from security products like firewalls and intrusion detection systems. The results of this data analysis are utilized for investigating the attacks. Network forensics generally refers to the collection and analysis of network data such as network traffic, firewall logs, IDS logs etc. Technically, it is a member of the already existing and expanding field of digital forensics. Analogously, network forensics is defined as: The use of scientifically proved techniques to collect, fuse, identify, examine, correlate, analyze and document digital evidence from multiple, actively processing and transmitting digital sources for the purpose of uncovering facts related to the planned intent or measured success of unauthorized activities meant to disrupt, corrupt and/or compromise system components as well as providing information to assist in response to or recovery from these activities. Network forensics plays a significant role in the security of today's organizations. On the one hand, it helps to learn the details of external attacks, ensuring similar future attacks are thwarted. Additionally, network forensics is essential for investigating insiders' abuses that constitute the second costliest type of attack within organizations. Finally, law enforcement requires network forensics for crimes in which a computer or digital system is either being the target of a crime or being used as a tool in carrying a crime. Network security protects the system against attack while network forensics focuses on recording evidence of the attack. Network security products are generalized and look for possible harmful behaviors. This monitoring is a continuous process and is performed

all through the day However network forensics involves post mortem investigation of the attack and is initiated after crime notification There are many tools which assist in capturing data transferred over the networks so that an attack or the malicious intent of the intrusions may be investigated Similarly various network forensic frameworks are proposed in the literature *Digital Crime and Forensic Science in Cyberspace* Kanellis, Panagiotis, Kiountouzis, Evangelos, Kolokotronis, Nicholas, Martakos, Drakoulis, 2006-04-30 Digital forensics is the science of collecting the evidence that can be used in a court of law to prosecute the individuals who engage in electronic crime Provided by publisher **Digital Forensics and Cyber Crime Investigation** Ahmed A. Abd El-Latif, Lo'ai Tawalbeh, Manoranjan Mohanty, Brij B. Gupta, Konstantinos E. Psannis, 2024-10-07 In the ever evolving landscape of digital forensics and cybercrime investigation staying ahead with the latest advancements is not just advantageous it's imperative Digital Forensics and Cyber Crime Investigation Recent Advances and Future Directions serves as a crucial bridge connecting the dots between the present knowledge base and the fast paced developments in this dynamic field Through a collection of meticulous research and expert insights this book dissects various facets of digital forensics and cyber security providing readers with a comprehensive look at current trends and future possibilities Distinguished by its in depth analysis and forward looking perspective this volume sets itself apart as an indispensable resource for those keen on navigating the complexities of securing the digital domain Key features of this book include Innovative Strategies for Web Application Security Insights into Moving Target Defense MTD techniques Blockchain Applications in Smart Cities An examination of how blockchain technology can fortify data security and trust Latest Developments in Digital Forensics A thorough overview of cutting edge techniques and methodologies Advancements in Intrusion Detection The role of Convolutional Neural Networks CNN in enhancing network security Augmented Reality in Crime Scene Investigations How AR technology is transforming forensic science Emerging Techniques for Data Protection From chaotic watermarking in multimedia to deep learning models for forgery detection This book aims to serve as a beacon for practitioners researchers and students who are navigating the intricate world of digital forensics and cyber security By offering a blend of recent advancements and speculative future directions it not only enriches the reader's understanding of the subject matter but also inspires innovative thinking and applications in the field Whether you're a seasoned investigator an academic or a technology enthusiast Digital Forensics and Cyber Crime Investigation Recent Advances and Future Directions promises to be a valuable addition to your collection pushing the boundaries of what's possible in digital forensics and beyond Digital Forensics and Cyber Crime Sanjay Goel, Paulo Roberto Nunes de Souza, 2024-04-02 The two volume set LNICST 570 and 571 constitutes the refereed post conference proceedings of the 14th EAI International Conference on Digital Forensics and Cyber Crime ICDF2C 2023 held in New York City NY USA during November 30 2023 The 41 revised full papers presented in these proceedings were carefully reviewed and selected from 105 submissions The papers are organized in the following topical sections Volume I Crime profile analysis and Fact checking Information hiding and

Machine learning Volume II Password Authentication and Cryptography Vulnerabilities and Cybersecurity and forensics

Digital Forensics and Cyber Crime Pavel Gladyshev, Sanjay Goel, Joshua James, George Markowsky, Daryl

Johnson, 2022-06-03 This book constitutes the refereed proceedings of the 12th International Conference on Digital Forensics and Cyber Crime ICDF2C 2021 held in Singapore in December 2021 Due to COVID 19 pandemic the conference was held virtually The 22 reviewed full papers were selected from 52 submissions and present digital forensic technologies and techniques for a variety of applications in criminal investigations incident response and information security The focus of ICDS2C 2021 was on various applications and digital evidence and forensics beyond traditional cybercrime investigations and litigation

Digital Forensics and Cyber Crime Claus Vielhauer, 2011-03-07 This book contains a selection of thoroughly refereed and revised papers from the Second International ICST Conference on Digital Forensics and Cyber Crime ICDF2C 2010 held October 4 6 2010 in Abu Dhabi United Arab Emirates The field of digital forensics is becoming increasingly important for law enforcement network security and information assurance It is a multidisciplinary area that encompasses a number of fields including law computer science finance networking data mining and criminal justice The 14 papers in this volume describe the various applications of this technology and cover a wide range of topics including law enforcement disaster recovery accounting frauds homeland security and information warfare

Cyber Warfare and Terrorism: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2020-03-06 Through the rise of big data and the internet of things terrorist organizations have been freed from geographic and logistical confines and now have more power than ever before to strike the average citizen directly at home This coupled with the inherently asymmetrical nature of cyberwarfare which grants great advantage to the attacker has created an unprecedented national security risk that both governments and their citizens are woefully ill prepared to face Examining cyber warfare and terrorism through a critical and academic perspective can lead to a better understanding of its foundations and implications Cyber Warfare and Terrorism Concepts Methodologies Tools and Applications is an essential reference for the latest research on the utilization of online tools by terrorist organizations to communicate with and recruit potential extremists and examines effective countermeasures employed by law enforcement agencies to defend against such threats Highlighting a range of topics such as cyber threats digital intelligence and counterterrorism this multi volume book is ideally designed for law enforcement government officials lawmakers security analysts IT specialists software developers intelligence and security practitioners students educators and researchers

Cyber Forensics Albert J. Marcella, 2021-09-12 Threat actors be they cyber criminals terrorists hacktivists or disgruntled employees are employing sophisticated attack techniques and anti forensics tools to cover their attacks and breach attempts As emerging and hybrid technologies continue to influence daily business decisions the proactive use of cyber forensics to better assess the risks that the exploitation of these technologies pose to enterprise wide operations is rapidly becoming a strategic business objective This book moves beyond the typical

technical approach to discussing cyber forensics processes and procedures. Instead, the authors examine how cyber forensics can be applied to identifying, collecting, and examining evidential data from emerging and hybrid technologies while taking steps to proactively manage the influence and impact as well as the policy and governance aspects of these technologies and their effect on business operations. A world-class team of cyber forensics researchers, investigators, practitioners, and law enforcement professionals have come together to provide the reader with insights and recommendations into the proactive application of cyber forensic methodologies and procedures to both protect data and to identify digital evidence related to the misuse of these data. This book is an essential guide for both the technical and non-technical executive manager, attorney, auditor, and general practitioner who is seeking an authoritative source on how cyber forensics may be applied to both evidential data collection and to proactively managing today's and tomorrow's emerging and hybrid technologies. The book will also serve as a primary or supplemental text in both undergraduate and postgraduate academic programs addressing information operational and emerging technologies, cyber forensics, networks, cloud computing, and cybersecurity.

Handbook of Research on Digital Crime, Cyberspace Security, and Information Assurance Cruz-Cunha, Maria Manuela, Portela, Irene Maria, 2014-07-31. In our hyper-connected digital world, cybercrime prevails as a major threat to online security and safety. New developments in digital forensics tools and an understanding of current criminal activities can greatly assist in minimizing attacks on individuals, organizations, and society as a whole. The Handbook of Research on Digital Crime, Cyberspace Security, and Information Assurance combines the most recent developments in data protection and information communication technology, ICT law, with research surrounding current criminal behaviors in the digital sphere. Bridging research and practical application, this comprehensive reference source is ideally designed for use by investigators, computer forensics practitioners, and experts in ICT law, as well as academicians in the fields of information security and criminal science.

Handbook of Research on Cyber Crime and Information Privacy Cruz-Cunha, Maria Manuela, Mateus-Coelho, Nuno, 2020-08-21. In recent years, industries have transitioned into the digital realm as companies and organizations are adopting certain forms of technology to assist in information storage and efficient methods of production. This dependence has significantly increased the risk of cyber crime and breaches in data security. Fortunately, research in the area of cyber security and information protection is flourishing; however, it is the responsibility of industry professionals to keep pace with the current trends within this field. The Handbook of Research on Cyber Crime and Information Privacy is a collection of innovative research on the modern methods of crime and misconduct within cyber space. It presents novel solutions to securing and preserving digital information through practical examples and case studies. While highlighting topics including virus detection, surveillance technology, and social networks, this book is ideally designed for cybersecurity professionals, researchers, developers, practitioners, programmers, computer scientists, academicians, security analysts, educators, and students seeking up-to-date research on advanced approaches and developments in cyber security.

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