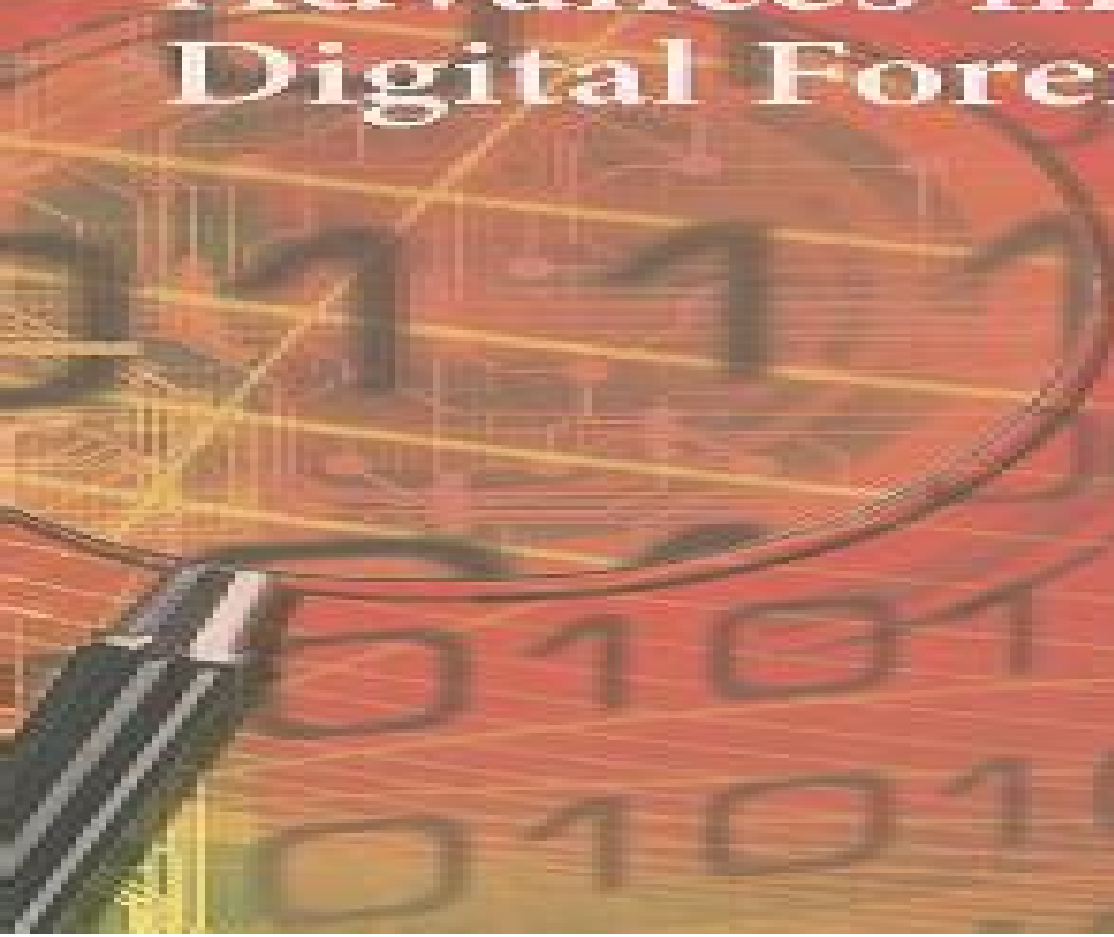


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Gilbert Peterson  
Sujeet Shenoi  
(Eds.)

# Advances in Digital Forensics VII



Springer

# Advances In Digital Forensics Vii Advances In Digital Forensics Vii

**Gilbert Peterson, Sujeet Shenoi**



## **Advances In Digital Forensics VII Advances In Digital Forensics VII:**

**Advances in Digital Forensics VII** Gilbert Peterson, Sujeet Shenoi, 2011-09-15 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Networked computing wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides the techniques and tools to articulate this evidence Digital forensics also has myriad intelligence applications Furthermore it has a vital role in information assurance investigations of security breaches yield valuable information that can be used to design more secure systems Advances in Digital Forensics VII describes original research results and innovative applications in the discipline of digital forensics In addition it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations The areas of coverage include Themes and Issues Forensic Techniques Fraud and Malware Investigations Network Forensics and Advanced Forensic Techniques This book is the 7th volume in the annual series produced by the International Federation for Information Processing IFIP Working Group 11 9 on Digital Forensics an international community of scientists engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics The book contains a selection of 21 edited papers from the 7th Annual IFIP WG 11 9 International Conference on Digital Forensics held at the National Center for Forensic Science Orlando Florida USA in the spring of 2011 Advances in Digital Forensics VII is an important resource for researchers faculty members and graduate students as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities Gilbert Peterson is an Associate Professor of Computer Engineering at the Air Force Institute of Technology Wright Patterson Air Force Base Ohio USA Sujeet Shenoi is the F P Walter Professor of Computer Science at the University of Tulsa Tulsa Oklahoma USA

**Advances in Digital Forensics X** Gilbert Peterson, Sujeet Shenoi, 2014-10-09 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Networked computing wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides the techniques and tools to articulate this evidence Digital forensics also has myriad intelligence applications Furthermore it has a vital role in information assurance investigations of security breaches yield valuable information that can be used to design more secure systems Advances in Digital Forensics X describes original research results and innovative applications in the discipline of digital forensics In addition it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations The areas of coverage include Internet Crime Investigations Forensic Techniques Mobile Device Forensics Forensic Tools and Training This book is the 10th volume in the annual series produced by the International Federation for Information Processing IFIP Working Group 11 9 on Digital

Forensics an international community of scientists engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics The book contains a selection of twenty two edited papers from the 10th Annual IFIP WG 11 9 International Conference on Digital Forensics held in Vienna Austria in the winter of 2014 Advances in Digital Forensics X is an important resource for researchers faculty members and graduate students as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities *Advances in Digital Forensics III* Philip Craiger,Sujeet Sheno,2007-11-14 In 2006 the Federal Bureau of Investigation FBI processed more than two petabytes of digital evidence in 2007 the volume of digital evidence processed will exceed four petabytes Electronic devices are becoming smaller and more diverse memory capacities are increasing according to Moore s Law distributed networks are growing massively in size and scale As society embraces new technologies and applications with gusto digital information will become even more pervasive Digital investigations already involve searching for the proverbial needle in the haystack In five years possibly sooner investigators will have to find the one needle in unimaginably large stacks of needles How will the FBI approach digital investigations of the future How will state and local law enforcement agents cope Digital forensics the scientific discipline focused on the acquisition preservation examination analysis and presentation of digital evidence will have to provide solutions The digital forensics research community must initiate serious efforts to develop the next generation of algorithms procedures and tools that will be desperately needed This book *Advances in Digital Forensics III* is the third volume in the annual series produced by the IFIP Working Group 11 9 on Digital Forensics an international community of scientists engineers and practitioners dedicated to advancing the state of the art of research and practice in the emerging discipline of digital forensics The book presents original research results and innovative applications in digital forensics **Advances in Digital Forensics IX** Gilbert Peterson,Sujeet Sheno,2013-10-09 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Networked computing wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides the techniques and tools to articulate this evidence Digital forensics also has myriad intelligence applications Furthermore it has a vital role in information assurance investigations of security breaches yield valuable information that can be used to design more secure systems *Advances in Digital Forensics IX* describe original research results and innovative applications in the discipline of digital forensics In addition it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations The areas of coverage include Themes and Issues Forensic Models Forensic Techniques File system Forensics Network Forensics Cloud Forensics Forensic Tools and Advanced Forensic Techniques This book is the ninth volume in the annual series produced by the International Federation for Information Processing IFIP Working Group 11 9 on Digital Forensics an international community of scientists engineers

and practitioners dedicated to advancing the state of the art of research and practice in digital forensics The book contains a selection of twenty five edited papers from the Ninth Annual IFIP WG 11.9 International Conference on Digital Forensics held in Orlando Florida USA in the winter of 2013 Advances in Digital Forensics IX is an important resource for researchers faculty members and graduate students as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities Gilbert Peterson is an Associate Professor of Computer Engineering at the Air Force Institute of Technology Wright Patterson Air Force Base Ohio USA Sujeet Sheno is the F P Walter Professor of Computer Science and a Professor of Chemical Engineering at the University of Tulsa Tulsa Oklahoma USA *Multimedia Forensics and Security* Aboul Ella Hassanien, Mohamed Mostafa Fouad, Azizah Abdul Manaf, Mazdak Zamani, Rabiah Ahmad, Janusz Kacprzyk, 2016-10-17 This book presents recent applications and approaches as well as challenges in digital forensic science One of the evolving challenges that is covered in the book is the cloud forensic analysis which applies the digital forensic science over the cloud computing paradigm for conducting either live or static investigations within the cloud environment The book also covers the theme of multimedia forensics and watermarking in the area of information security That includes highlights on intelligence techniques designed for detecting significant changes in image and video sequences Moreover the theme proposes recent robust and computationally efficient digital watermarking techniques The last part of the book provides several digital forensics related applications including areas such as evidence acquisition enhancement evidence evaluation cryptography and finally live investigation through the importance of reconstructing the botnet attack scenario to show the malicious activities and files as evidences to be presented in a court

**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

**Proceedings of the Seventh International Workshop on Digital Forensics and Incident Analysis (WDFIA 2012)** Nathan Clarke, Theodore Tryfonas, Ronald Dodge, 2012 The field of digital forensics is rapidly evolving and continues to gain significance in both the law enforcement and the scientific community Being intrinsically interdisciplinary it draws upon a wide range of subject areas such as information communication technologies law social sciences and business administration With this in mind the workshop on Digital Forensics and Incident Analysis WDFIA specifically addresses this multi-faceted aspect with papers invited from the full spectrum of issues relating to digital forensics and incident analysis This book represents the proceedings from the 2012 event which was held in Crete Greece A total of 13 papers are included spanning a range of topics including systems and network investigation services and applications and supporting the forensic process All of the papers were subject to double blind peer review with each being reviewed by at least two members of the international programme committee

*Handbook of Big Data and IoT Security* Ali Dehghantanha, Kim-Kwang Raymond Choo, 2019-03-22 This handbook provides an overarching view of cyber security and digital forensic challenges related to big data and IoT environment prior to reviewing existing data mining solutions and their potential application in big data context and existing authentication and access control for IoT devices An IoT access control scheme and an IoT forensic framework is also presented in this book and it explains how the IoT forensic framework can be used to guide investigation of a popular cloud storage service A distributed file system forensic approach is also presented which is used to guide the investigation of Ceph Minecraft a Massively Multiplayer Online Game and the Hadoop distributed file system environment are also forensically studied and their findings reported in this book A forensic IoT source camera identification algorithm is introduced which uses the camera's sensor pattern noise from the captured image In addition to the IoT access control and forensic frameworks this handbook covers a cyber defense triage process for nine advanced persistent threat APT groups targeting IoT infrastructure namely APT1 Molerats Silent Chollima Shell Crew NetTraveler ProjectSauron CopyKittens Volatile Cedar and Transparent Tribe The characteristics of remote controlled real world Trojans using the Cyber Kill Chain are also examined It introduces a method to leverage different crashes discovered from two fuzzing approaches which can be used to enhance the effectiveness of fuzzers Cloud computing is also often associated with IoT and big data e.g. cloud enabled IoT systems and hence a survey of

the cloud security literature and a survey of botnet detection approaches are presented in the book Finally game security solutions are studied and explained how one may circumvent such solutions This handbook targets the security privacy and forensics research community and big data research community including policy makers and government agencies public and private organizations policy makers Undergraduate and postgraduate students enrolled in cyber security and forensic programs will also find this handbook useful as a reference

**Advances in Digital Forensics XX** Elizabeth Kurkowski,Sujeet Sheno,2025-01-06 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Computer networks cloud computing smartphones embedded devices and the Internet of Things have expanded the role of digital forensics beyond traditional computer crime investigations with practically every crime now involving some aspect of digital evidence Digital forensics provides the techniques and tools to articulate such evidence in legal proceedings Along with a myriad of intelligence applications Digital forensics also plays a vital role in cyber security investigations of security breaches yield valuable information that can be used to design more secure and resilient systems This book Advances in Digital Forensics XX is the twentieth volume in the annual series produced by the IFIP Working Group 11 9 on Digital Forensics an international community of scientists engineers and practitioners dedicated to advancing the state of the art of research and practice in Digital forensics This book presents original research results and innovative applications in digital forensics It also highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations This volume contains fifteen revised and edited chapters based on papers presented at the Twentieth IFIP WG 11 9 International Conference on Digital Forensics held in New Delhi India on January 4 5 2024 A total of 32 full length papers were submitted for presentation at the conference The chapters present in this volume have been organized into seven thematic sections Themes and Issues Mobile Device Forensics Image and Video Forensics Internet of Things Forensics Malware Forensics Filesystem Forensics Forensic Investigations

**Advancements in Cybercrime Investigation and Digital Forensics** A. Harisha,Amarnath Mishra,Chandra Singh,2023-10-06 Vast manpower and resources are needed to investigate cybercrimes The use of new advanced technologies such as machine learning combined with automation are effective in providing significant additional support in prevention of cyber attacks in the speedy recovery of data and in reducing human error This new volume offers a comprehensive study of the advances that have been made in cybercrime investigations and digital forensics highlighting the most up to date tools that help to mitigate cyber attacks and to extract digital evidence for forensic investigations to recover lost purposefully deleted or damaged files The chapters look at technological cybersecurity tools such as artificial intelligence machine learning data mining and others for mitigation and investigation

**Advanced Information Systems Engineering Workshops** John Krogstie,Haralambos Mouratidis,Jianwen Su,2016-06-06 This book constitutes the thoroughly refereed proceedings of five international workshops held in Ljubljana Slovenia in conjunction with the 28th International Conference on Advanced Information Systems

Engineering CAiSE 2016 in June 2016 The 16 full and 9 short papers were carefully selected from 51 submissions The associated workshops were the Third International Workshop on Advances in Services DDesign based on the Notion of CAPabiliy ASDENCA co arranged with the First International Workshop on Business Model Dynamics and Information Systems Engineering BumDISE the Fourth International Workshop on Cognitive Aspects of Information Systems Engineering COGNISE the First International Workshop on Energy awareness and Big Data Management in Information Systems EnBIS the Second International Workshop on Enterprise Modeling EM and the Sixth International Workshop on Information Systems Security Engineering WISSE

**Advances in Digital Forensics XVIII** Gilbert Peterson, Sajeet Sheno, 2022-07-09 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Computer networks cloud computing smartphones embedded devices and the Internet of Things have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides the techniques and tools to articulate this evidence in legal proceedings Digital forensics also has myriad intelligence applications furthermore it has a vital role in cyber security investigations of security breaches yield valuable information that can be used to design more secure and resilient systems Advances in Digital Forensics XVIII describes original research results and innovative applications in the discipline of digital forensics In addition it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations The areas of coverage include This book is the eighteenth volume in the annual series produced by the International Federation for Information Processing IFIP Working Group 11 9 on Digital Forensics an international community of scientists engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics The book contains a selection of eleven edited papers from the Eighteenth Annual IFIP WG 11 9 International Conference on Digital Forensics a fully virtual event held in the winter of 2022

**Handbook of Research on Security Considerations in Cloud Computing** Munir, Kashif, Al-Mutairi, Mubarak S., Mohammed, Lawan A., 2015-07-28 Cloud computing has quickly become the next big step in security development for companies and institutions all over the world With the technology changing so rapidly it is important that businesses carefully consider the available advancements and opportunities before implementing cloud computing in their organizations The Handbook of Research on Security Considerations in Cloud Computing brings together discussion on current approaches to cloud based technologies and assesses the possibilities for future advancements in this field Highlighting the need for consumers to understand the unique nature of cloud delivered security and to evaluate the different aspects of this service to verify if it will meet their needs this book is an essential reference source for researchers scholars postgraduate students and developers of cloud security systems

Web-Based Services: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2015-11-09 The recent explosion of digital media online networking and e commerce has generated great new opportunities for those Internet savvy



individuals who see potential in new technologies and can turn those possibilities into reality It is vital for such forward thinking innovators to stay abreast of all the latest technologies Web Based Services Concepts Methodologies Tools and Applications provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry The chapters in this multi volume book describe a diverse range of applications and methodologies made possible in a world connected by the global network providing researchers computer scientists web developers and digital experts with the latest knowledge and developments in Internet technologies

**Applied Informatics and Cybernetics in Intelligent Systems** Radek Silhavy,2020-08-07 This book gathers the refereed proceedings of the Applied Informatics and Cybernetics in Intelligent Systems Section of the 9th Computer Science On line Conference 2020 CSOC 2020 held on line in April 2020 Modern cybernetics and computer engineering in connection with intelligent systems are an essential aspect of ongoing research This book addresses these topics together with automation and control theory cybernetic applications and the latest research trends

**Counting Paul** Benjamin L. White,2025-04-15 Who wrote the Pauline Epistles For nearly 1 700 years the answer seemed fairly straightforward The New Testament canon set the boundary at thirteen or fourteen including Hebrews Pauline Epistles alongside an uncontroversial biographical framework within which to imagine them in Acts In the early nineteenth century the identification of the historical Paul with the canonical Paul was severed when theologian Ferdinand Christian Baur of the University of T bingen laid the groundwork for the fundamental historiographical moves that still orient Pauline Studies as a critical discipline by both delimiting the number of authentic Pauline Epistles and highlighting the tendentious character of Acts portrayal of Paul Given the highly uncertain and subjective nature of so much of the argumentation over the authenticity of the Pauline Epistles as it developed in the nineteenth century the analysis of authorial style took on increasing weight as a way out of so many special decisions The linguistic features of texts were counted averaged and compared In measuring one text against another the Pauline stylome emerged as the incontrovertible standard for uncovering canonical forgeries in the Apostle s name Tracing the long history of the computational approach to the Pauline authorship problem Counting Paul exposes the ideological foundations and questionable science of much of the work and argues that Pauline biography ought not be written from fewer sources than what the New Testament has given us but rather more It advocates for a more expansive vision of what might count as Pauline by reorienting our focus away from internal criteria like appeals to style and toward external criteria like the reception of Paul in the generations after his death

**Cyber Security and Network Security** Sabyasachi Pramanik,Debabrata Samanta,M. Vinay,Abhijit Guha,2022-04-19 CYBER SECURITY AND NETWORK SECURITY Written and edited by a team of experts in the field this is the most comprehensive and up to date study of the practical applications of cyber security and network security for engineers scientists students and other professionals Digital assaults are quickly becoming one of the most predominant issues on the planet As digital wrongdoing keeps on expanding it is increasingly more important to investigate new methodologies and

advances that help guarantee the security of online networks Ongoing advances and innovations have made great advances for taking care of security issues in a methodical manner In light of this organized security innovations have been delivered so as to guarantee the security of programming and correspondence functionalities at fundamental improved and engineering levels This outstanding new volume covers all of the latest advances innovations and developments in practical applications for cybersecurity and network security This team of editors represents some of the most well known and respected experts in the area creating this comprehensive up to date coverage of the issues of the day and state of the art Whether for the veteran engineer or scientist or a student this volume is a must have for any library      *Advances in Digital Forensics XVII* Gilbert Peterson,Sujeet Shenoj,2021-10-14 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Computer networks cloud computing smartphones embedded devices and the Internet of Things have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides the techniques and tools to articulate this evidence in legal proceedings Digital forensics also has myriad intelligence applications furthermore it has a vital role in cyber security investigations of security breaches yield valuable information that can be used to design more secure and resilient systems Advances in Digital Forensics XVII describes original research results and innovative applications in the discipline of digital forensics In addition it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations The areas of coverage include themes and issues forensic techniques filesystem forensics cloud forensics social media forensics multimedia forensics and novel applications This book is the seventeenth volume in the annual series produced by the International Federation for Information Processing IFIP Working Group 11 9 on Digital Forensics an international community of scientists engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics The book contains a selection of thirteen edited papers from the Seventeenth Annual IFIP WG 11 9 International Conference on Digital Forensics held virtually in the winter of 2021 Advances in Digital Forensics XVII is an important resource for researchers faculty members and graduate students as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities      Advances in Digital Forensics II Martin S. Olivier,Sujeet Shenoj,2010-04-02 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Networked computing wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides the techniques and tools to articulate this evidence Digital forensics also has myriad intelligence applications Furthermore it has a vital role in information assurance investigations of security breaches yield valuable information that can be used to design more secure systems Advances in Digital Forensics II describes original

research results and innovative applications in the emerging discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations. The areas of coverage include Themes and Issues in Digital Forensics, Evidence Collecting and Handling, Forensic Techniques, Operating System and File System Forensics, Network Forensics, Portable Electronic Device Forensics, Linux and File System Forensics, Training, Governance and Legal Issues. This book is the second volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.9 on Digital Forensics, an international community of scientists, engineers, and practitioners dedicated to advancing the state of the art of research and practice in digital forensics. The book contains a selection of twenty-five edited papers from the First Annual IFIP WG 11.9 Conference on Digital Forensics held at the National Center for Forensic Science, Orlando, Florida, USA, in the spring of 2006. *Advances in Digital Forensics* is an important resource for researchers, faculty members, and graduate students, as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities. Martin S. Olivier is a Professor of Computer Science and co-manager of the Information and Computer Security Architectures Research Group at the University of Pretoria, Pretoria, South Africa. Sujeet Shenoi is the F. P. Walter Professor of Computer Science and a principal with the Center for Information Security at the University of Tulsa, Tulsa, Oklahoma, USA. For more information about the 300 other books in the IFIP series, please visit [www.springeronline.com](http://www.springeronline.com). For more information about IFIP, please visit [www.ifip.org](http://www.ifip.org).

*Advances in Digital Forensics XVI* Gilbert Peterson, Sujeet Shenoi, 2020-09-06. Digital forensics deals with the acquisition, preservation, examination, analysis, and presentation of electronic evidence. Computer networks, cloud computing, smartphones, embedded devices, and the Internet of Things have expanded the role of digital forensics beyond traditional computer crime investigations. Practically every crime now involves some aspect of digital evidence; digital forensics provides the techniques and tools to articulate this evidence in legal proceedings. Digital forensics also has myriad intelligence applications; furthermore, it has a vital role in cyber security investigations, as security breaches yield valuable information that can be used to design more secure and resilient systems. *Advances in Digital Forensics XVI* describes original research results and innovative applications in the discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations. The areas of coverage include themes and issues, forensic techniques, filesystem forensics, cloud forensics, social media forensics, multimedia forensics, and novel applications. This book is the sixteenth volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.9 on Digital Forensics, an international community of scientists, engineers, and practitioners dedicated to advancing the state of the art of research and practice in digital forensics. The book contains a selection of sixteen edited papers from the Sixteenth Annual IFIP WG 11.9 International Conference on Digital Forensics held in New Delhi, India, in the winter of 2020. *Advances in Digital Forensics XVI* is an important resource for researchers, faculty members, and graduate

students as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities

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