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September 2014.
The 27 regular
and 17 short***

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were carefully
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presents 22
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were carefully
reviewed and
selected from the
28 papers (out of
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professionals
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forensics exams
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needing the
skills to identify
an intruder's
footprints and
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sich mit der
forensischen
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sh-Speichern,
den hierbei
auftretenden
Problemen und
zeigt auf, in
welchen
Bereichen eine
Analyse möglich
ist und in**

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welchen nicht.
Hierfür werden
im ersten Teil
dieser Arbeit
die allgemeinen
Grundlagen der
forensischen
Analyse, der el
ektrotechnische
Aufbau von
Flash-Speichern
und deren
Einsatzgebiete

erläutert. Des Weiteren werden die Besonderheiten der Speicherverwaltung von Flash-Speichern und die daraus resultierenden Folgen für die Forensik aufgezeigt. Zuletzt werden

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Tools**

**betrachtet,
welche zum Teil
in dem darauf
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Rekonstruktion
und
Untersuchung
von Daten
genutzt wurden.
Abstract This**

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deals with the
forensic
analysis of
flash memories,
the problems
experienced in
this area and
it demonstrates
the areas in
which an
analysis is
possible and**

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where not. For
this purpose,
the general
principles of
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analysis, the
electro
technical
structure of
flash memories
and their uses
are discussed
in the first

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part.

Flash Memory
Furthermore, it
explains the
specifics of
the memory
management of
flash memories
and the
resulting
consequences
for forensics.
In the last
part some tools

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**are still
considered,
which were
partly used in
the following
attempt for
reconstruction
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data. Inhaltsve
rzeichnis: 1.
Einleitung 2.
Grundlagen der
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Analyse 2.1

Vorgehensweise

2.2 Integrität der Daten 2.2.1

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Hashfunktionen

2.3 Write-

Blocker 2.3.1 H ardware-Write-

Blocker 2.3.2 S oftware-Write-

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3. Aufbau und
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Aufbau 3.2 Vor-
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Schreiben 3.6

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Speicherzellen**

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3.6.2 MLC-Flash

3.6.3 TLC-Flash

**4. Arten von
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4.2

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4.3 SSD 4.4

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5.1 FAT 5.2

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ung bei Flash-
Speichern 6.1**

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**6.3 Wear-Leveli
ng-Algorithmus**

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**(FTL) 6.5 Bad
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**Management
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Reservesektoren

6.6 TRIM 6.7

Garbage

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**Collector 7.
Besonderheiten
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bei der Flash-
Forensik 7.1
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Forensik 7.2
Integrität der**

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**Daten 7.3 Write-
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8.7 Autopsie

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rsuchsdurchfuhr

ung 9.1 Ziel

des Versuches

9.2 Genutzte

Speichermedien

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**9.3 Technischer
Aufbau 9.4**

**Versuch: Daten
rekonstruieren**

9.4.1

**Speichermedien
vorbereiten**

**9.4.2 Daten
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9.4.3

**Ergebnisse des
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materials for memories
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tools for today's highly
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inexpensive, these
devices can be used not
only for voice calls,
simple text messages,
and Personal

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Management (PIM), but also for many functions done at a desktop computer. While these devices provide productivity benefits, they also pose new risks. This document is intended to assist organizations in securing cell phones and PDAs. More specifically, this

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As future generation information technology (FGIT) becomes specialized and fragmented, it is easy to lose sight that many topics in

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FGIT have common threads and, because of this, advances in one discipline may be transmitted to others. Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole. Of particular interest are hybrid solutions that combine

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ideas taken from multiple disciplines in order to achieve something more significant than the sum of the individual parts.

Through such hybrid philosophy, a new principle can be discovered, which has the propensity to propagate throughout multifaceted disciplines. FGIT 2009 was the first

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conferences: Advanced
Software Engineering
and Its Applications
(ASEA), Bio-Science
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Flash Memory
Communication and
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Advanced
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Directions provides
the first truly
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leading edge mobile security research from Dr. Man Ho Au and Dr. Raymond Choo—leading researchers in mobile security. Mobile devices and apps have become part of everyday life in both developed and developing countries. As with most evolving

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technologies, mobile devices and mobile apps can be used for criminal exploitation. Along with the increased use of mobile devices and apps to access and store sensitive, personally identifiable information (PII) has come an increasing need for the

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**community to have
a better
understanding of
the associated
security and privacy
risks. Drawing upon
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researchers and
experts, this volume
comprehensively
discusses a range
of mobile security
and privacy topics**

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**from research,
applied, and
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perspectives, while
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security
implementations
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developments in
government, legal,
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environments. The
book does not focus
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**solutions, instead
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**upcoming trends,
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makers to prepare
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decisions regarding
the implementation
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Practically every crime now involves some aspect of digital evidence. This is the most recent volume in the Advances in Digital Forensics series. It describes original research results and innovative applications in the emerging discipline of digital forensics.

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**Digital Forensics,
held at Kyoto
University, Kyoto,
Japan in the spring
of 2008.**

**This book
constitutes the
refereed
proceedings of the
18th International
Conference on
Information
Security, ISC 2015,
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Norway, in
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September 2015.

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The widespread

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information and
communications
technology (ICT)
has created a
global platform
for the exchange
of ideas, goods
and services, the
benefits of which
are enormous.
However, it has***

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***also created
boundless
opportunities for
fraud and
deception.
Cybercrime is
one of the
biggest growth
industries around
the globe,
whether it is in
the form of***

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***violation of
company
policies, fraud,
hate crime,
extremism, or
terrorism. It is
therefore
paramount that
the security
industry raises
its game to
combat these***

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top priority is to
use computer
technology to
fight computer
crime, as our
commonwealth is
protected by
firewalls rather
than firepower.
This is an issue
of global***

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***importance as
new technologies
have provided a
world of
opportunity for
criminals. This
book is a
compilation of
the collaboration
between the
researchers and
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***the security field;
and provides a
comprehensive
literature on
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future e-security
needs across
applications,
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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

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***investigations
within the cloud
environment. The
book also covers
the theme of
multimedia
forensics and
watermarking in
the area of
information
security. That
includes***

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***highlights on
intelligence
techniques
designed for
detecting
significant
changes in image
and video
sequences.
Moreover, the
theme proposes
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***computationally
efficient digital
watermarking
techniques. The
last part of the
book provides
several digital
forensics related
applications,
including areas
such as evidence
acquisition***

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evidence
evaluation,
cryptography,
and finally, live
investigation
through the
importance of
reconstructing
the botnet attack
scenario to show
the malicious***

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***activities and
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evidences to be
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court.***

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ecommunications***

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*, Information and
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Multimedia (e-
Forensics 2009)*
*took place in
Adelaide, South
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2009, at the
Australian
National Wine
Centre,
University of*

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Adelaide. In addition to the peer-reviewed academic papers presented in this volume, the conference featured a significant number of plenary contributions from recognized -

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***tional and
international
leaders in digital
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research at
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outlined the
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challenges of investigation as new devices enter the market. These - clude the impact of solid-state memory, ultra-portable devices, and distributed storage – also known as cloud

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Que- sland Police
Service, who
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file system now
in use in Que-**

sland, noting that efficiency and efficacy gains in using the system have now meant that police can arrive at a suspect's home before the suspect! Joseph Razik, representing Patrick Perrot

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**of the Institut de
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Nati- ale, France,
summarized
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them. Now that
you know what
you are looking
for, you'll shift
your focus to
network
forensics, where
you cover the**

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available to make
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process less
complicated.
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you will work
with cloud and
mobile forensic
techniques by
considering the***

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***concept of
forensics as a
service (FaSS),
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cutting-edge
skills that will
future-proof your
career. Building
on this, you will
learn the process
of breaking down
malware attacks,***

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*Cyber Crime
(ICDF2C) was*

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from September
30 to October
2, 2009. The
field of
digital for-
sics is growing
rapidly with
implications
for several
fields*

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brought

together pr-

tioners and

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fields
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and
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sessions were
very well*

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quality paper
pr-entations
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*speakers from
all around the
world. The
first day
featured a
plenary session
including
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*of New York
State Police,
and William
Pelgrin,
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An outstanding
keynote was*

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provided by
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Vasarhelyi on
continuous
auditing. This
was followed by
two parallel
sessions on
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fraud
/financial
crime, and m-
timedia and

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*handheld
forensics. The
second day of
the conference
featured a
mesm- izing
keynote talk by
Nitesh Dhanjani
from Ernst and
Young that
focused on
psyc- logical
profiling based*

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*on open source
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third day of
the conference
featured both
basic and
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translation
layers (which
allow flash
devices to be
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legacy
operating
systems), and
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systems (which
provide for

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*better
utilization of
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at a somewhat
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thesis provides
a comprehension
survey of the
relevant
academic
literature and
evaluates the*

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done in the
field of flash
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theory of
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Program) *flash
file systems.*

*It then
conducts
experiments to
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these theories,
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evidence from
different types
of cloud
services, such
as digital
remnants of
cloud
applications*

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investigation
of a wide range
of cloud
services. Dr.
Kim-Kwang
Raymond Choo
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researchers in
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both theoretical and

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phones. The author

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*and other malicious
techniques used*

*“against” users. The
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is to raise user
awareness in regards
to security and
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present in the use of
mobile phones while
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reside in the mobile*

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author team's wide
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provides both
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*practical background
of security and
forensics for mobile
phones. The author
discusses
confidentiality,
integrity, and
availability threats in
mobile telephones to
provide background
for the rest of the
book. Security and
secrets of mobile*

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*phones are discussed
including software
and hardware
interception, fraud
and other malicious
techniques used
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purpose of this book
is to raise user
awareness in regards
to security and
privacy threats
present in the use of*

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*mobile phones while
readers will also learn
where forensics data
reside in the mobile
phone and the
network and how to
conduct a relevant
analysis. The
information on denial
of service attacks has
been thoroughly
updated for the new
edition. Also, a major*

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*addition to this
edition is a section
discussing software
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make your way*

*through the chapters,
you will work through
various physical and
logical techniques to
extract data from
devices in order to
obtain forensic
evidence. You will
also learn how to
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This book begins with an introduction to PBXs (Private Branch Exchanges) and the scene, statistics and involved actors. It discusses confidentiality, integrity and availability threats in PBXs. The author examines the threats

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and the technical background as well as security and forensics involving PBXs. The purpose of this book is to raise user awareness in regards to security and privacy threats present in PBXs, helping both users and administrators safeguard their

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systems. The new edition includes a major update and extension to the VoIP sections in addition to updates to forensics.

When it comes to computer crimes, the criminals got a big head start. But the law enforcement and IT security

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communities are now working diligently to develop the knowledge, skills, and tools to successfully investigate and prosecute Cybercrime cases.

When the first edition of "Scene of the Cybercrime" published in 2002, it

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was one of the first books that educated IT security professionals and law enforcement how to fight Cybercrime. Over the past 5 years a great deal has changed in how computer crimes are perpetrated and subsequently investigated. Also,

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the IT security and law enforcement communities have dramatically improved their ability to deal with Cybercrime, largely as a result of increased spending and training.

According to the 2006 Computer Security Institute's

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and FBI's joint
Cybercrime report:
52% of companies
reported
unauthorized use of
computer systems in
the prior 12 months.
Each of these
incidents is a
Cybecrime requiring
a certain level of
investigation and
remediation. And in

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many cases, an investigation is mandated by federal compliance regulations such as Sarbanes-Oxley, HIPAA, or the Payment Card Industry (PCI) Data Security Standard. Scene of the Cybercrime, Second Edition is a

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completely revised
and updated book
which covers all of
the technological,
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changes, which have
occurred since the
first edition. The
book is written for
dual audience; IT
security
professionals and
members of law

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enforcement. It gives the technical experts a little peek into the law enforcement world, a highly structured environment where the "letter of the law" is paramount and procedures must be followed closely lest an investigation be contaminated and

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all the evidence collected rendered useless. It also provides law enforcement officers with an idea of some of the technical aspects of how cyber crimes are committed, and how technology can be used to track down and build a case

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against the criminals
who commit them.

Scene of the
Cybercrime, Second
Editions provides a
roadmap that those
on both sides of the
table can use to
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and technical
landscape to
understand, prevent,
detect, and

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successfully prosecute the criminal behavior that is as much a threat to the online community as "traditional" crime is to the neighborhoods in which we live. Also included is an all new chapter on
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Acts and Laws. *

Companion Web site provides custom tools and scripts, which readers can download for conducting digital, forensic investigations. *

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operating systems
(Windows, Linux
and UNIX) as well as
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including iPods,
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Digital forensics
deals with the
acquisition,
preservation,
examination,
analysis and

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presentation of
electronic evidence.

Networked
computing, wireless
communications and
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devices have
expanded the role of
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beyond traditional
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investigations.

Practically every

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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

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assurance --

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investigations of
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yield valuable
information that can
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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

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Digital forensics deals with the acquisition, preservation, examination, analysis and presentation of electronic evidence. Networked computing, wireless communications and portable electronic devices have

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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

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