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IFIP's mission is to be the leading, truly international, apolitical organization which encourages and assists in the development, exploitation and application of information technology for the benefit of all people.

IFIP is a non-profitmaking organization, run almost solely by 2500 volunteers. It operates through a number of technical committees, which organize events and publications. IFIP's events range from an international congress to local seminars, but the most important are:

- The IFIP World Computer Congress, held every second year;
- Open conferences;
- Working conferences.

The flagship event is the IFIP World Computer Congress, at which both invited and contributed papers are presented. Contributed papers are rigorously refereed and the rejection rate is high.

As with the Congress, participation in the open conferences is open to all and papers may be invited or submitted. Again, submitted papers are stringently refereed.

The working conferences are structured differently. They are usually run by a working group and attendance is small and by invitation only. Their purpose is to create an atmosphere conducive to innovation and development. Refereeing is less rigorous and papers are subjected to extensive group discussion.

Publications arising from IFIP events vary. The papers presented at the IFIP World Computer Congress and at open conferences are published as conference proceedings, while the results of the working conferences are often published as collections of selected and edited papers.

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Kam-Pui Chow Sujeet Shenoi (Eds.)

Advances in Digital Forensics VI

Sixth IFIP WG 11.9 International Conference
on Digital Forensics
Hong Kong, China, January 4-6, 2010
Revised Selected Papers

 Springer

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Library of Congress Control Number: 2010934317

CR Subject Classification (1998): H.3, C.2, K.6.5, D.4.6, F.2, E.3

ISSN 1868-4238

ISBN-10 3-642-15505-7 Springer Berlin Heidelberg New York

ISBN-13 978-3-642-15505-5 Springer Berlin Heidelberg New York

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Printed in Germany

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India

Printed on acid-free paper 219/3180

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Preface

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 type of 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 information assurance – investigations of security breaches yield valuable information that can be used to design more secure and resilient systems.

This book, *Advances in Digital Forensics VI*, is the sixth volume in the annual series produced by 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 presents original research results and innovative applications in digital forensics. Also, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations.

This volume contains twenty-one edited papers from the Sixth IFIP WG 11.9 International Conference on Digital Forensics, held at the University of Hong Kong, Hong Kong, January 4–6, 2010. The papers were refereed by members of IFIP Working Group 11.9 and other internationally-recognized experts in digital forensics.

The chapters are organized into six sections: themes and issues, forensic techniques, Internet crime investigations, live forensics, advanced forensic techniques and forensic tools. The coverage of topics highlights the richness and vitality of the discipline, and offers promising avenues for future research in digital forensics.

This book is the result of the combined efforts of several individuals. In particular, we thank Daniel Guernsey, Pierre Lai and Catherine Chan for their tireless work on behalf of IFIP Working Group 11.9. We also acknowledge the support provided by the University of Hong Kong, Hong

Kong Police Force, Hong Kong Forensic Science Foundation, National Security Agency, Immigration and Customs Enforcement, and U.S. Secret Service.

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