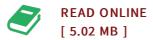




An FPGA-Based System for Tracking Digital Information Transmitted via Peer-to-Peer Protocols

By Karl R. Schrader

Biblioscholar Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x10 mm. This item is printed on demand - Print on Demand Neuware - This research addresses the problem of tracking digital information that is shared using peer-to-peer file transfer and VoIP protocols for the purposes of illicitly disseminating sensitive government information and for covert communication by terrorist cells or criminal organizations. A digital forensic tool is created that searches a network for peerto-peer control messages, extracts the unique identifier of the file or phone number being used, and compares it against a list of known contraband files or phone numbers. If the identifier is on the list, the control packet is saved for later forensic analysis. The system is implemented using an FPGA-based embedded software application, and processes file transfers using the BitTorrent protocol and VoIP phone calls made using the Session Initiation Protocol (SIP). Results show that the final design processes peer-to-peer packets of interest 92% faster than a software-only configuration, and is able to successfully capture and process BitTorrent Handshake messages with a probability of at least 99.0% and SIP control packets with a probability of at least 97.6% under a network traffic load of at least 89.6 Mbps....



Reviews

An extremely wonderful book with lucid and perfect information. It is one of the most awesome publication i have read. Your life period will probably be enhance the instant you total looking at this pdf.

-- Prof. Dan Windler MD

It is really an amazing publication i actually have at any time read. It is really simplistic but unexpected situations inside the 50 percent of your pdf. Its been written in an exceptionally simple way in fact it is just right after i finished reading this ebook where actually transformed me, alter the way i really believe.

-- Dr. Celestino Spinka III

Other PDFs



Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG, Eignungstest für das Medizinstudium, Adult Attachment Interview,...



Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers who are new to computer programming. Although...



Halloween Stories: Spooky Short Stories for Children (Paperback)

Createspace, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.10 Halloween Stories for Kids!Happy Halloween! Your child will enjoy this Halloween book full of spooky stories. This is an...



New KS2 English SAT Buster 10-Minute Tests: 2016 SATs & Beyond

Paperback. Book Condition: New. Not Signed; This is Book 2 of CGP's SAT Buster 10-Minute Tests for KS2 Grammar, Punctuation & Spelling - it's a brilliant way to introduce English SATS preparation in bite-sized chunks. Each set of quick tests is packed...



Adobe Indesign CS/Cs2 Breakthroughs

Peachpit Press, 2005. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Adobe InDesign is taking the publishing world by storm and users are hungry for breakthrough solutions to...



Sport is Fun (Red B) NF

Pearson Education Limited. Paperback. Book Condition: new. BRAND NEW, Sport is Fun (Red B) NF, Dianne Irving, This title is part of Pearson's Bug Club - the first whole-school reading programme that joins books and an online reading world to teach today's...