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Computer Viruses: from theory to applications Eric Filiol, 2006-03-30 Viruses don't harm ignorance does. Is ignorance a defense? I am convinced that computer viruses are not evil and that programmers have a right to create them to possess them and to experiment with them. Truth seekers and wise men have been persecuted by powerful idiots in every age. Mark A. Ludwig: Everyone has the right to freedom of opinion and expression; this right includes freedom to hold opinions without interference and to seek, receive and impart information and ideas through any media and regardless of frontiers. Article 19 of Universal Declaration of Human Rights. The purpose of this book is to propose a teaching approach to understand what computer viruses really are and how they work. To do this, three aspects are covered, ranging from theoretical fundamentals to practical applications and technical features, fully detailed and commented. We will systematically use the plural form "viruses" instead of the literal one "virii". The latter is now an obsolete, though grammatically recommended form. VIII. Preface. Codes of viruses as well as inherent applications are proposed. So far, the applications-oriented aspects have hardly ever been addressed through the scarce existing literature devoted to computer viruses.

Computer Viruses: From Theory To Applications (With Cd) Bes, 2008-12-01

International Joint Conference SOCO'17-CISIS'17-ICEUTE'17 León, Spain, September 6-8, 2017, Proceeding Hilde Pérez García, Javier Alfonso-Cendón, Lidia Sánchez González, Héctor Quintián, Emilio Corchado, 2017-08-21 This volume includes papers presented at SOCO 2017, CISIS 2017 and ICEUTE 2017, all conferences held in the beautiful and historic city of León, Spain, in September 2017. Soft computing represents a collection of computational techniques in machine learning, computer science, and some engineering disciplines which investigate, simulate, and analyze highly complex issues and phenomena. These proceedings feature 48 papers from the 12th SOCO 2017 covering topics such as artificial intelligence and machine learning applied to health sciences and soft computing methods in manufacturing and management systems. The book also presents 18 papers from the 10th CISIS 2017 which provided a platform for researchers from the fields of computational intelligence, information security, and data mining to meet and discuss the need for intelligent, flexible behavior by large, complex systems, especially in mission-critical domains. It addresses various topics like identification, simulation, and prevention of security and privacy threats in modern communication networks. Furthermore, the book includes 8 papers from the 8th ICEUTE 2017. The selection of papers for all three conferences was extremely rigorous in order to maintain the high quality, and we would like to thank the members of the Program Committees for their hard work in the reviewing process.

Data Science: From Research to Application Mahdi Bohlouli, Bahram Sadeghi Bigham, Zahra Narimani, Mahdi Vasighi, Ebrahim Ansari, 2020-01-28 This book presents outstanding theoretical and practical findings in data science and associated interdisciplinary areas. Its main goal is to explore how data science research can revolutionize society and industries in a positive way, drawing on pure research to do so. The topics covered range from pure data science to fake news detection, as well as Internet of Things in the context of

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Computation: The Micro And The Macro View Bernard Huberman,1992-09-16 The laws and methodology of physics are starting to provide powerful insights into the nature and dynamics of computation This book contains a number of articles that illustrate how fields ranging from quantum mechanics to statistical physics and nonlinear dynamics can help elucidate the nature of computation

The Computer Virus Desk Reference Christopher V. Feudo,1992

Fundamentals of Information Systems Security David Kim,Michael G. Solomon,2021-12-10 Fundamentals of Information Systems Security Fourth Edition provides a comprehensive overview of the essential concepts readers must know as they pursue careers in information systems security

[Handbook of Information Security, Threats, Vulnerabilities, Prevention, Detection, and Management](#) Hossein Bidgoli,2006-03-13 The Handbook of Information Security is a definitive 3 volume handbook that offers coverage of both established and cutting edge theories and developments on information and computer security The text contains 180 articles from over 200 leading experts providing the benchmark resource for information security network security information privacy and information warfare

Cyberspace Mimic Defense Jiangxing Wu,2019-12-02 This book discusses uncertain threats which are caused by unknown attacks based on unknown vulnerabilities or backdoors in the information system or control devices and software hardware Generalized robustness control architecture and the mimic defense mechanisms are presented in this book which could change the easy to attack and difficult to defend game in cyberspace The endogenous uncertain effects from the targets of the software hardware based on this architecture can produce magic mimic defense fog and suppress in a normalized mode random disturbances caused by physical or logic elements as well as effects of non probability disturbances brought by uncertain security threats Although progress has been made in the current security defense theories in cyberspace and various types of security technologies have come into being the effectiveness of such theories and technologies often depends on the scale of the prior knowledge of the attackers on the part of the defender and on the acquired real timing and accuracy regarding the attackers behavior features and other information Hence there lacks an efficient active defense means to deal with uncertain security threats from the unknown Even if the bottom line defense technologies such as encrypted verification are adopted the security of hardware software products cannot be quantitatively designed verified or measured Due to the loose coupling

relationship and border defense modes between the defender and the protected target there exist insurmountable theoretical and technological challenges in the protection of the defender and the target against the utilization of internal vulnerabilities or backdoors as well as in dealing with attack scenarios based on backdoor activated collaboration from both inside and outside no matter how augmented or accumulated protective measures are adopted Therefore it is urgent to jump out of the stereotyped thinking based on conventional defense theories and technologies find new theories and methods to effectively reduce the utilization of vulnerabilities and backdoors of the targets without relying on the priori knowledge and feature information and to develop new technological means to offset uncertain threats based on unknown vulnerabilities and backdoors from an innovative perspective This book provides a solution both in theory and engineering implementation to the difficult problem of how to avoid the uncontrollability of product security caused by globalized marketing COTS and non trustworthy software hardware sources It has been proved that this revolutionary enabling technology has endowed software hardware products in IT ICT CPS with endogenous security functions and has overturned the attack theories and methods based on hardware software design defects or resident malicious codes This book is designed for educators theoretical and technological researchers in cyber security and autonomous control and for business technicians who are engaged in the research on developing a new generation of software hardware products by using endogenous security enabling technologies and for other product users Postgraduates in IT ICT CPS ICS will discover that as long as the law of structure determines the nature and architecture determines the security is properly used the problem of software hardware design defects or malicious code embedding will become the swelling of Achilles in the process of informationization and will no longer haunt Pandora's box in cyberspace Security and opening up advanced progressiveness and controllability seem to be contradictory but there can be theoretically and technologically unified solutions to the problem

Aerospace Computer Security Applications Conference ,1988 *Computer Virus Handbook* Harold Joseph Highland,1990 The handbook is the result of extensive research and evaluation conducted by individual practitioners and commercial and government agencies in the United States Europe and Canada It has been researched and compiled to provide authoritative information about the virus threat the technical issues involved and countermeasures The *Computer Virus Handbook* includes for the first time in published form independent technical evaluations of some 22 prominent anti virus software packages a survey which will prove invaluable to the computing professional seeking to identify prevent or eliminate computer viruses The handbook contains First hand accounts of several notorious computer virus attacks information unavailable in any other publication Company guidelines to reduce the risk of virus attacks with recommendations for computer virus disaster planning Technical research papers written by world authorities Definitions of computer virus and other attack programs Anatomical characteristics of specific viruses The first publication of a report about the emerging generation of computer viruses and the implications for establishing countermeasures The Computer Virus Desk Reference ,1992 Managing Computer

Viruses Eric Louw, Neil M. Duffy, 1992 This book presents a concise overview of the problem and a detailed framework for dealing with computer viruses in organizations Managers are the target audience and will find that it offers more than the usual technical information There is a wealth of advice much of which applies to the problem of computer security in general

Proceedings ,1991 **Subject Guide to Books in Print** ,1997 *Bulletin of Pure & Applied Sciences* ,2003

Forthcoming Books Rose Arny,1995 *Static Analysis of Programs with Application to Malicious Code Detection*

Raymond Waiman Lo,1992 **Government Reports Announcements & Index** ,1995 **Proceedings in Print** ,1992

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